

**Chemický ústav**  
**Slovenskej akadémie vied**



**SPRÁVA O ČINNOSTI**  
**ZA ROK 2019**

**Bratislava**  
**január 2020**

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# 1. Základné údaje o organizácii

## 1.1. Kontaktné údaje

**Názov:** Chemický ústav SAV

**Riaditeľ:** Ing. Miroslav Koóš, DrSc.

**Zástupca riaditeľa:** Mgr. Stanislav Kozmon, PhD.

**Vedecký tajomník:** Mgr. Jana Blahutová, PhD.

**Predseda vedeckej rady:** Ing. Vladimír Mastihuba, PhD.

**Člen Snemu SAV:** Ing. Miroslav Koóš, DrSc.

**Adresa:** Dúbravská cesta 9, 845 38 Bratislava

<http://chem.sk>

**Tel.:** 02/ 59410201, 02/ 54772080

**E-mail:** chemsekr@savba.sk

## Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

**Typ organizácie:** Príspevková od roku 2009

## 1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
<b>Celkový počet zamestnancov</b>	145	61	84	16	22	136	113.86	68.47	20.5
<b>Vedeckí pracovníci</b>	81	40	41	9	14	72	61.32	59.94	0
<b>Odborní pracovníci VŠ</b> (výskumní a vývojoví zamestnanci <sup>1</sup> )	21	8	13	5	8	21	11.68	7.53	0
<b>Odborní pracovníci VŠ</b> (ostatní zamestnanci <sup>2</sup> )	5	2	3	1	0	5	4.52	1	0
<b>Odborní pracovníci ÚS</b>	28	5	23	1	0	28	26.67	0	20.5
<b>Ostatní pracovníci</b>	10	6	4	0	0	10	9.67	0	0

<sup>1</sup> odmeňovaní podľa 553/2003 Z.z., príloha č. 5

<sup>2</sup> odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2019 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2019 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

*O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.*

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2019)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
<b>Muži</b>	10	30	1	2	10	22	8
<b>Ženy</b>	1	40	0	0	2	21	18

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
<b>Muži</b>	6	4.4	7	7.5	1	1.0	4	4.0	7	7.7	1	1.0	3	3.0	3	3.0	12	4.0
<b>Ženy</b>	9	7.4	8	8.3	7	7.0	3	3.0	3	3.0	2	2.0	3	3.0	7	6.4	2	0.2

*A - Prepočet bez zohľadnenia úväzkov zamestnancov*

*B - Prepočet so zohľadnením úväzkov zamestnancov*

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2019

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
<b>Muži</b>	51.6	52.2	50.0
<b>Ženy</b>	46.2	43.4	44.0
<b>Spolu</b>	48.5	47.7	47.0

### 1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v organizačnej štruktúre a pod.)

V roku 2019 nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii Chemického ústavu SAV, ktorá bola naďalej zameraná najmä na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

V rámci organizačného členenia organizácie (od 1. 1. 2005), je vytvorených osem vedeckých oddelení - Štruktúra a funkcia sacharidov, Glykobiológia, Glykomateriály, Glykochémia, Glykobiotechnológia, Enzymológia sacharidov, Imunochémia glykokonjugátov a Zbierka kvasiniek (tieto vedecké oddelenia spolu tvoria Centrum glykomiky) a tri spoločné nevedecké oddelenia - Analytické, Realizačné a Ekonomicko-technické oddelenie.

Chemický ústav SAV bol v rámci pravidelných hodnotení vedeckých organizácií SAV (akreditácie) v roku 2007, 2012 a 2016 zaradený do kategórií A\* (rok 2007), A (rok 2012) a B (rok 2016), čo svedčí o vysokej kvalite vedecko-výskumnej práce a ostatných zohľadňovaných ukazovateľoch.

Od 1. 1. 2009 sa zmenila forma hospodárenia ústavu z rozpočtovej na príspevkovú.

## 2. Vedecká činnosť

### 2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2019

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
<b>1. Projekty VEGA</b>	19	8	188937	188937	9623	9623	9766	-
<b>2. Projekty APVV</b>	9	9	-	-	339154	259607	-	77796
<b>3. Projekty OP ŠF</b>	0	0	-	-	-	-	-	-
<b>4. Projekty SASPRO</b>	0	0	-	-	-	-	-	-
<b>5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)</b>	3	0	-	-	183738	172378	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2019

Štruktúra projektov	Miesto podania	Organizácia nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
<b>1. Účasť na nových výzvach APVV r. 2019</b>	-	7	10
<b>2. Projekty výziev OP ŠF podané r. 2019</b>	Bratislava	2	1
	Regióny	1	3

## 2.2. Medzinárodné projekty

### 2.2.1. Medzinárodné projekty riešené v roku 2019

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty 7. RP EÚ a Horizont 2020	1	2	-	8227	112125	65593	4746	316090
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	25000	-
3. Projekty COST	0	11	-	-	-	-	30692	8389
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	2	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	3	-	-	-	-	-	801
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	2	1	-	-	3471	5802	-	3797
9. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

### 2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2019

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

	A	B
Počet podaných projektov Horizont 2020	0	0

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

### 2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

V nadväznosti na úspešnosť vo výzve OPVaV 2015/3.1/01-SORO a OPVaV 2015/1.1/01-SORO v oblastiach špecializácie RIS3 SK (v roku 2015 ústav získal 2 projekty v celkovej sume ca 19 mil. €; financie boli použité na nákup prístrojovej infraštruktúry), CHÚ SAV sa zapojil do ďalších výziev v druhej etape pre financovanie výskumných aktivít podľa prílohy v úspešných projektoch (financovanie nákupu spotrebného materiálu, energií a ľudských zdrojov) vyhlásených koncom roka 2018. V roku 2018 ústav podal žiadosť do výzvy v rámci bratislavského kraja a začiatkom roka 2019 podal žiadosť aj vo výzve pre mimobratislavský kraj. V oboch prípadoch je ústav kvalifikovaný ako oprávnený žiadateľ. Ako žiadateľ sa ústav ešte zapojil do výzvy na podporu výskumno-vývojových kapacít/refundácia. V tomto prípade už došlo k podpísaniu Zmluvy o poskytnutí NFP (30.12.2019) a odpovedajúce ŽoP budú podané začiatkom roka 2020. V ďalších štyroch projektoch v rámci výziev vyhlásených v roku 2018 ústav figuruje ako partner (1 projekt vo výzve na podporu SPVVC, 2 projekty vo výzve na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK a 1 projekt vo výzve na podporu DSV).

Názov projektu: Integrácia výsledkov multiomik štúdií a biotechnologická produkcia biologicky významných látok

Anglický názov: Integrating multiomics study results and biotechnological production of biologically important substances

Kód projektu v ITMS2014+: NFP313010T560

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu výskumno-vývojových kapacít v oblasti Zdravie obyvateľstva a zdravotnícke technológie

Kód výzvy: OPVaI-VA/DP/2018/1.1.3-10

Číslo zmluvy o poskytnutí NFP: 008/2019/OPII/VA (podpísaná 30.12.2019)

Zodpovedný riešiteľ za CHÚ SAV: RNDr. Ján Mucha, CSc.

Žiadateľ: Chemický ústav SAV

Partneri: –

Trvanie projektu: 06/2016-12/2019

Názov projektu: Štúdium štrukturálnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení

Anglický názov: Study of structural changes of complex glycoconjugates in the process of hereditary metabolic and civilization diseases

Kód projektu v ITMS2014+: –

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK v Bratislavskom kraji

Kód výzvy: OPVaI-VA/DP/2018/2.1.1-05

Kód žiadosti o poskytnutie NFP: NFP313020Y920

Zodpovedný riešiteľ za CHÚ SAV: RNDr. Ján Mucha, CSc.

Žiadateľ: Chemický ústav SAV

Partneri: Sitno Pharma s. r. o.; Centrum experimentálnej medicíny SAV- Ústav experimentálnej farmakológie a toxikológie

Trvanie projektu: 01/2020-06/2023

Názov projektu: Výskum v oblasti udržiavania zdravia obyvateľstva

Anglický názov: Research in the field of maintaining the health of the population

Kód projektu v ITMS2014+: –

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK mimo Bratislavského kraja

Kód výzvy: OPVAI-VA/DP/2018/1.1.3-05

Kód žiadosti o poskytnutie NFP: NFP313010X198

Zodpovedný riešiteľ za CHÚ SAV: Ing. Vladimír Pätoprstý, PhD.

Žiadateľ: Chemický ústav SAV

Partneri: Saneca Pharmaceuticals a. s.; Slovenská poľnohospodárska univerzita v Nitre; Ústredný kontrolný a skúšobný ústav poľnohospodársky

Trvanie projektu: 01/2020-06/2023

Názov projektu: Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu

Anglický názov: Center for advanced therapies for chronic inflammatory diseases of the musculoskeletal system

Kód projektu v ITMS2014+: –

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK mimo Bratislavského kraja

Kód výzvy: OPVAI-VA/DP/2018/1.1.3-05

Kód žiadosti o poskytnutie NFP: NFP313010W410

Zodpovedný riešiteľ za CHÚ SAV: Ing. Jaroslav Katrlík, PhD.

Žiadateľ: Národný ústav reumatických chorôb

Partneri: Chemický ústav SAV; Technická univerzita v Košiciach; Regenmed spol. s r.o.

Trvanie projektu: 01/2020-06/2023

Názov projektu: Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa

Anglický názov: Center for Biomedical Research - BIOMEDIRES - II. phase

Kód projektu v ITMS2014+: –

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK mimo Bratislavského kraja

Kód výzvy: OPVAI-VA/DP/2018/1.1.3-05

Kód žiadosti o poskytnutie NFP: NFP313010W428

Zodpovedný riešiteľ za CHÚ SAV: Mgr. Peter Baráth, PhD.

Žiadateľ: Medirex Group Academy, n.o.

Partneri: Chemický ústav SAV; Centrum experimentálnej medicíny SAV; MindIT, s.r.o.; Univerzita Komenského v Bratislave

Trvanie projektu: 01/2020-06/2023

Názov projektu: Vybudovanie výskumno-vývojového centra pre výrobu nových aseptických liekov

Anglický názov: Construction of a research and development center for the production of new aseptic drugs

Kód projektu v ITMS2014+: –

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu strategických priemyselných výskumno-vývojových centier v doméne Zdravie obyvateľstva a zdravotnícke technológie

Kód výzvy: OPVAI-VA/DP/2019/1.2.1-13

Kód žiadosti o poskytnutie NFP: NFP313010Y329

Zodpovedný riešiteľ za CHÚ SAV: Ing. Vladimír Pätoprstý, PhD.

Žiadateľ: Sitno Pharma s. r. o.

Partneri: Chemický ústav SAV

Trvanie projektu: 01/2020-06/2023



Názov projektu: CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby  
 Anglický názov: CEMBAM - Center of Medical Bio-additive Research and Production  
 Kód projektu v ITMS2014+: –

Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu dlhodobého strategického výskumu – Zdravie obyvateľstva a zdravotnícke technológie

Kód výzvy: OPVaI-VA/DP/2018/1.2.1-08

Kód žiadosti o poskytnutie NFP: NFP313010V358

Zodpovedný riešiteľ za CHÚ SAV: Ing. Jaroslav Katrlík, PhD.

Žiadateľ: Národný ústav reumatických chorôb

Partneri: Chemický ústav SAV; Technická univerzita v Košiciach; Medical Vision; Panara, s.r.o.; DB Biotech, a.s.; Biomedical Engineering, s.r.o.; Regenmed, spol. s r.o.

Trvanie projektu: 12/2019-06/2023

CHÚ SAV má záujem zapojiť sa aj do ďalších výziev, pričom prioritou je získať finančnú podporu najmä na spotrebný materiál, energie, ľudské zdroje a dobudovanie infraštruktúry. Z prostriedkov projektu na podporu výskumno-vývojových kapacít (NFP: 008/2019/OPII/VA) je ambíciou prijať niekoľko doktorandov nad limit stanovený pre ústav z centrálnych zdrojov a taktiež zamestnať úspešných a kvalitných postdoktorandov.

## 2.3. Najvýznamnejšie výsledky vedeckej práce

### 2.3.1. Základný výskum

#### **Špecifita transglykozyláz bunkových stien rastlín a húb (Stratilová B., Stratilová E., Klaudíny, Šesták, Kozmon, Horváthová, Farkaš)**

Transglykozylázy bunkových stien rastlín a húb sú enzýmy, ktoré umožňujú prestavbu týchto štruktúr naviazanú na vonkajšie podmienky, v ktorých sa bunky nachádzajú, a tým prispievajú k ich rastu, obrane a komunikácii s okolitým prostredím. Náš výskum sa zameria na štúdium špecifity týchto enzýmov v súvislosti s ich štruktúrou a funkciou. Po stanovení primárnej štruktúry boli pomocou metód výpočtovej chémie a bioinformatiky identifikované aminokyseliny zodpovedné za substrátovú špecifitu transglykozyláz v dvojklíčnolistových rastlinách a správnosť teoretických analýz bola potvrdená pomocou bodových mutácií a stanovením aktivít mutantov na špecifické fluorescenčné substráty. Tieto boli využité aj na stanovenie špecifity Chr transglykozyláz huby *Aspergillus fumigatus*. Projekt VEGA 2/0058/16. (**Chemický ústav SAV**).

STRATILOVÁ, Barbora - FIRÁKOVÁ, Zuzana, Zemková - KLAUDINY, Jaroslav - ŠESTÁK, Sergej - KOZMON, Stanislav - STROUHALOVÁ, Dana - GARAJOVÁ, Soňa - AIT-MOHAND, Fairouz - HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír - STRATILOVÁ, Eva - HRMOVÁ, Mária. Engineering the acceptor substrate specificity in the xyloglucan endotransglycosylase TmXET6.3 from nasturtium seeds (*Tropaeolum majus* L.). In *Plant Molecular Biology*, 2019, vol. 100, no. 1-2, p. 181-197. (3.928 - IF2018). (kvartil 2018: SJR - Q1). ISSN 0167-4412. Typ: ADCA

FANG, Wenxia - SANZ, Ana Belén - BARTUAL, Sergio Galán - WANG, Bin - FERENBACH, Andrew T. - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier - VAN AALTEN, Daan M.F. Mechanisms of redundancy and specificity of the *Aspergillus fumigatus* Crh transglycosylases. In *Nature Communications*, 2019, vol. 10, art. no. 1669. (11.878 - IF2018). (kvartil 2018: SJR - Q1). ISSN 2041-1723. Typ: ADCA

### 2.3.2. Aplikačný typ

#### **Glykoprofilácia ako nástroj na diagnostiku rakoviny (Bertók, Lorencová, Hrončeková, Gajdošová, Jáné, Híreš, Vikartovská, Chocholová, Blšáková, Květoň, Tkáč)**

Študovali sa možnosti glykoprofilácie proteínov, alebo vo všeobecnosti analýzy glykánov pre včasnú diagnostiku, prognózu a monitorovanie rôznych rakovinových ochorení (prostaty, semenníkov, kolorekta). Opísané sú tiež možnosti analýzy protilátok voči aberantným glykánom na diagnostiku rakoviny zažívacieho traktu, pankreasu, prsníka, kolorekta, atď. Potenciál špeciálneho typu elektrochemickej techniky stanovenia – elektrochemickej impedančnej spektrometrie bol detailne popísané na stanovenie rôznych rakovinových biomarkerov. Elektrochemický princíp detekcie bol v kombinácii s novým typom hybridných nanomateriálov následne použitý na glykoprofiláciu proteínu s dôrazom na diagnostiku rakoviny prostaty. Oxid grafénu ako veľmi perspektívny typ 2D nanomateriálov bol využitý na stanovenie protilátky voči aberantnému typu glykánu, s potenciálom využitia pri diagnostike rôznych typov rakovín. Projekty ERC-2018-PoC; APVV-17-0300; 2018/23-SAV-1 (Ministerstvo zdravotníctva SR). (**Chemický ústav SAV**).

BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ Štefánia - GAJDOŠOVÁ, Veronika - JÁNÉ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ANDICSOVÁ ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. In *Biosensors and Bioelectronics*, 2019, vol. 131, p. 24-29. (9.518 - IF2018). (kvartil 2018: SJR - Q1). (2019 - Current Contents). ISSN 0956-5663. Typ: ADCA

BERTÓK, Tomáš - LORENCOVÁ, Lenka - CHOCHOLOVÁ, Erika - JÁNÉ, Eduard - VIKARTOVSKÁ, Alica - KASÁK, Peter - TKÁČ, Ján. Electrochemical impedance spectroscopy based biosensors: Mechanistic principles, analytical examples and challenges towards commercialization for assay of protein cancer biomarkers. In *ChemElectroChem*, 2019, vol. 6, p. 989-1003. (3.975 - IF2018). (kvartil 2018: SJR - Q1). (2019 - Current Contents). ISSN 2196-0216. Typ: ADCA

BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - KASÁK, Peter - TKÁČ, Ján. Antibodies against aberrant glycans as cancer biomarkers. In *Expert Review of Molecular Diagnostics*, 2019, vol. 19, p. 1057-1068. (3.099 - IF2018). (kvartil 2018: SJR - Q1). (2019 - Current Contents). ISSN 1473-7159. Typ: ADCA

HÍREŠ Michal - JÁNÉ, Eduard - MEGO, Michal - CHOVANEC, Michal - KASÁK, Peter - TKÁČ, Ján. Glycan analysis as biomarkers for testicular cancer. In *Diagnostics*, 2019, vol. 9, Article number 156. (2.489 - IF2018). (kvartil 2018: SJR - Q2). (2019 - Current Contents). ISSN 2075-4418. Typ: ADCA

KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - LORENCOVÁ, Lenka - JERIGOVÁ, Monika - VELIČ, Dušan - BLIXT, Ola - JANSSON, Bo - KASÁK, Peter - TKÁČ, Ján. A graphene-based glycan biosensor for electrochemical label-free detection of a tumor-associated antibody. In *Sensors*, 2019, vol. 19, Article 5409. (3.031 - IF2018). (kvartil 2018: SJR - Q2). (2019 - WoS, Scopus). ISSN 1424-8220. Typ: ADMA

TKÁČ, Ján - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Glycomics of prostate cancer: updates. In *Expert Review of Proteomics*, 2019, vol. 16, p. 65-76. (2.963 - IF2018). (kvartil 2018: SJR - Q2). (2019 - WOS, Scopus). ISSN 1478-9450. Typ: ADMA

TKÁČ, Ján - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNĚ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. In *Interface Focus*, 2019, vol. 9, art. no. 20180077. (3.092 - IF2018). (kvartil 2018: SJR - Q1). (2019 - WOS, Scopus). ISSN 2042-8898. Typ: ADMA

BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika - JÁNĚ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ANDICSOVÁ ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. In *MethodsX*, 2019, vol. 6, p. 1999-2012. (IF2018 - nemá). (kvartil 2018: SJR - Q2). (2019 - WOS, Scopus). ISSN 2215-0161. Typ: ADMB

BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - TKÁČ, Ján. Glycan-modified interfaces in biosensing: an electrochemical approach. In *Current Opinion in Electrochemistry*, 2019, vol. 14, p. 60-65. (IF2018 - nemá). (kvartil 2018: SJR - Q1). (2019 - WOS, Scopus). ISSN 2451-9103. Typ: ADMB

### 2.3.3. Medzinárodné vedecké projekty

#### **Analýza glykoforiem proteínov ako potencionálnych biomarkerov pre medicínu (Katrlik, Križáková, Pažitná)**

V rámci výskumu v oblasti glykoprofilovania transferínu a ďalších glykoproteínov vo vzorkách pacientov s viacerými ochoreniami (kolorektálny karcinóm, ochorenie obličiek, cukrovka 2. typu), ako aj v súvislosti s normálnymi fyziologickými procesmi (placentálny vývoj, starnutie) (spoločný projekt s INEP, University of Belgrade) bola adaptovaná vyvinutá metóda lektínového microarray na vysokovýkonné meranie glykánového zloženia proteínov v biologických vzorkách pre tieto konkrétne aplikácie s cieľom posúdiť potenciál sledovania glykozylačných zmien proteínov ako biomarkerov pre biomedicínsky výskum a diagnostiku. Pre identifikáciu glykánových štruktúr bola v prípade sledovania glykozylačných zmien počas placentálneho vývoja použitá aj MALDI-MS technika. Výsledky preukázali glykozylačné zmeny na určitých proteínoch, napríklad v prípade transferínu boli nájdené rozdiely medzi zdravými jedincami, pacientami s ochorením obličiek a pacientami na peritoneálnej dialýze. Preukázaný bol taktiež diagnostický potenciál glykoforiem transferínu pre ďalšie ochorenia ako kolorektálny karcinóm a cukrovka 2. typu. Zistený bol tiež posun v glykozylácii transferínu a  $\alpha$ -2-makroglobulínu v súvislosti so starnutím. Lektínová microarray metóda umožnila aj vysokocitlivé glykoprofilovanie (na úrovni pikomolárnych koncentrácií) receptorov "insulin-like growth factor" systému v súvislosti s kolorektálnym karcinómom. Tu bolo napríklad zistené, že glykóm receptorov obsahuje viac  $\alpha$ 2,3-viazanej kyseliny sialovej ako celkový glykóm membránových proteínov, a že receptory izolované z nádorového tkaniva obsahujú viac fukózy a menej tri-/tetra-antenárnych komplexných N-glykánov a vysokomanózových štruktúr ako receptory izolované z nenádorového tkaniva. Vyvinuté a použité metódy umožňujúce vysokovýkonné glykoprofilovanie majú veľký aplikačný potenciál vo výskume biomarkerov, medicíne, diagnostike a terapii ochorení (kolorektálny karcinóm, ochorenie obličiek, cukrovka), ako aj pre sledovanie fyziologických zmien v súvislosti so starnutím. Projekt APVV SK-SRB-18-0028 (Chemický ústav SAV).

ROBAJAC, Dragana - MASNIKOSA, Romana - NEMČOVIČ, Marek - KRIŽÁKOVÁ, Martina - BELICKÁ KLUKOVÁ, Ľudmila - BARÁTH, Peter - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Glycoanalysis of the placental membrane glycoproteins throughout placental development. In *Mechanisms of Ageing and Development*, 2019, vol. 183, Article 111151. (3.603 - IF2018). (kvartil 2018: SJR - Q1). (2019 - Current Contents). ISSN 0047-6374. Typ: ADCA

PENEZIĆ, Ana - KRIŽÁKOVÁ, Martina - MILJUŠ, Goran - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Diagnostic potential of transferrin glycoforms—a lectin-based protein microarray approach. In *Proteomics - Clinical Applications*, 2019, vol. 13, art. no. 1800185. (2.324 - IF2018). (kvartil 2018: SJR - Q2). (2019 - Current Contents). ISSN 1862-8346. Typ: ADCA

ŠUNDERIĆ, Miloš - KRIŽÁKOVÁ, Martina - MALENKOVIĆ, Vesna - ČUJIĆ, Danica - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes due to ageing in the glycan structure of alpha-2-macroglobulin and its reactivity with ligands. In *Protein Journal*, 2019, vol. 38, p. 23-29. (1.029 - IF2018). (kvartil 2018: SJR - Q3). (2019 - WOS, Scopus). ISSN 1572-3887. Typ: ADMA

ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina - MASNIKOSA, Romana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Sensitive glycoprofiling of insulin-like growth factor receptors isolated from colon tissue of patients with colorectal carcinoma using lectin-based protein microarray. In *International Journal of Biological Macromolecules*, 2020, in press. DOI: 10.1016/j.ijbiomac.2019.09.170. (4.784 - IF2018). (kvartil 2018: SJR - Q1). (2019 - Current Contents). ISSN 0141-8130. Typ: ADCA

PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Glycan analysis of serum glycoproteins of patients on peritoneal dialysis by lectin-based microarray. In ŘÁPKOVÁ, Radmila - FUSEK, Martin - DRAŠAR, Pavel (eds.). *XIX. Interdisciplinary Meeting of Young Biologists, Biochemists and Chemists, May 20-23, 2019, Milovy, Czech Republic*. In *Czech Chemical Society Symposium Series*, 2019, ročník 17, číslo 1, s. 29-30. ISSN 2336-7202. Typ: AFG

PENEZIĆ, Ana - ROBAJAC, Dragana - MILJUŠ, Goran - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - PAŽITNÁ, Lucia - ŠUNDERIĆ, Miloš - DOBRIJEVIĆ, Zorana - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Serum transferrin glycopattern in patients with an end-stage renal disease: a lectin-based protein microarray. In SPASOJEVIĆ, Ivan (ed.). *Proceedings: Serbian Biochemical Society Ninth Conference "Diversity in Biochemistry", November 14-16, 2019, Belgrade, Serbia*. Belgrade: Faculty of Chemistry, Serbian Biochemical Society, 2019, p. 145. Typ: AFG

MILJUŠ, Goran - PENEZIĆ, Ana - KRIŽÁKOVÁ, Martina - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Glycosylation of the human serum transferrin as a biomarker of healthy ageing. In SPASOJEVIĆ, Ivan (ed.). *Proceedings: Serbian Biochemical Society Ninth Conference "Diversity in Biochemistry", November 14-16, 2019, Belgrade, Serbia*. Belgrade: Faculty of Chemistry, Serbian Biochemical Society, 2019, p. 132. Typ: AFG

## 2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2019/ doplňky z r. 2018
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané	0 / 0

<b>v zahraničných vydavateľstvách (BAA, ACA, CAA)</b>	
<b>5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)</b>	<b>0 / 0</b>
<b>6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)</b>	<b>8 / 0</b>
<b>7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)</b>	<b>0 / 0</b>
<b>8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)</b>	<b>0 / 0</b>
<b>9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)</b>	<b>53 / 0</b>
<b>10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNBN)</b>	<b>11 / 0</b>
<b>11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)</b>	<b>0 / 0</b>
<b>12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)</b>	<b>1 / 0</b>
<b>13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)</b>	<b>0 / 0</b>
<b>14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)</b>	<b>0 / 0</b>
<b>15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)</b>	<b>21 / 0</b>
<b>16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)</b>	<b>4 / 0</b>
<b>17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS</b>	<b>0</b>
<b>18. Ostatné vydané periodiká</b>	<b>0</b>
<b>19. Zostavovateľské práce knižného charakteru (FAI)</b>	<b>4 / 1</b>
<b>20. Preklady vedeckých a odborných textov (EAJ)</b>	<b>0 / 0</b>
<b>21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)</b>	<b>0 / 0</b>
<b>22. Recenzie v časopisoch a zborníkoch (EDI)</b>	<b>0 / 0</b>

*Evidujú len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii*

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

<b>Kvartil vedeckého časopisu</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Spolu</b>
<b>Podľa IF z r. 2018 (zdroj JCR)</b>					
<i>Počet článkov / doplnky 2017</i>	30 / 0	18 / 0	10 / 0	3 / 0	61 / 0
<b>Podľa SJR z r. 2018 (zdroj Scimago)</b>					
<i>Počet článkov / doplnky 2017</i>	43 / 0	15 / 0	5 / 0	1 / 0	64 / 0

Tabuľka 2g Ohlasy

<b>OHLASY</b>	<b>Počet v r. 2018/ doplnky z r. 2017</b>
<b>Citácie vo WOS (1.1, 2.1)</b>	2939 / 45

<b>Citácie v SCOPUS (1.2, 2.2)</b>	311 / 16
<b>Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)</b>	78 / 0
<b>Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)</b>	39 / 0
<b>Recenzie na práce autorov z organizácie (5, 6, 7, 8)</b>	0 / 0

## 2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

<b>Prednášky a vývesky na medzinárodných vedeckých podujatiach</b>	49/0
<b>Prednášky a vývesky na domácich vedeckých podujatiach</b>	77/1

## 2.6. Vyžiadané prednášky

*Ak boli príspevky publikované, sú súčasťou prílohy C, kategória (AFC, AFD, AFE, AFF, AFG, AFH)*

### 2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BARÁTH, Peter - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - PAKANOVÁ, Zuzana - ŠESTÁK, Sergej - BELLOVÁ, Jana - ŠALINGOVÁ, Anna - TEKELYOVÁ, Alexandra - SKOKŇOVÁ, Martina - BRUCKNEROVÁ, Ingrid - ŠEBOVÁ, Claudia - MUCHA, Ján. New homozygous mutation in ALG12 gene resulted in CDG-I disorder in newborn patient. In *Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy*. (vyžiadaná prednáška - Dr. Baráth P.)

Abstract published: In *Glycoconjugate Journal*, 2019, vol. 36, no. 4, p. 303. ISSN 0282-0080. (Abstracts: *Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy*). (AFE)

HRICOVÍNI, Michal. The spectroscopic and DFT analysis of photochemical processes of quinazolinone-derived Schiff bases. In *2nd International Conference of Photonics Research (INTERPHOTONICS 2019), November 4-9, 2019, Kemer/Antalya, Turkey*.

Abstract published: In KAYAHAN, Ersin - ORAL, Ahmet Yavuz- AKÖZ, Mehmet Emre - AKSAN, Onur Alp - ÇINAR, İbrahim (eds.). *Book of Abstracts: 2nd International Conference of Photonics Research (INTERPHOTONICS 2019), November 4-9, 2019, Kemer/Antalya, Turkey*. Yeniköy: Kocaeli University, 2019, p. 107.

KATRLÍK, Jaroslav. Lectin-based biosensing for medicine and biotechnology. In *European Biotechnology Congress, April 11-13, 2019, Valencia, Spain*.

Abstract published: In *Journal of Biotechnology*, 2019, vol. 305, Supplement, p. S2. ISSN 0168-1656. (Abstracts: *European Biotechnology Congress, April 11-13, 2019, Valencia, Spain*). (AFE)

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Screening of protein glycosylation by lectin-based protein microarray. In *Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria*. (vyžiadaná prednáška - Dr. Katrlík)

Abstract published: In *Abstract Book: Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria*. Berlin: M24You GmbH, 2019, p. 33. (AFE)

LUX, Alexander - VACULÍK, Marek - MARTINKA, Michal - KOHANOVÁ, Jana - LUKAČOVÁ, Zuzana - BOKOR, Boris - WHITE, Philip J. - TAO, Qi - LI, Tingqiang. Checkpoints

of transport processes in plants exposed to toxic levels of trace elements and/or toxic elements. In *15th International Conference on the Biogeochemistry of Trace Elements (ICOBTE), May 5-9, 2019, Nanjing, China*. (vyžiadaná prednáška - prof. Lux)

Abstract published: In *Abstract Book: ICOBTE 2019, May 5-9, 2019, Nanjing, China*. Nanjing: Nanjing Agricultural University, 2019, p. S5-276. (AFE)

## 2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

FRECER, Vladimír - MIERTUŠ, Stanislav - BREN, Urban - ŠEBESTA, Radovan - HLASOVÁ, Zuzana - ONDREJOVIČ, Miroslav - KATRLÍK, Jaroslav. Design and development of potential new drugs against influenza A virus. In *Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava, Slovakia*. (vyžiadaná prednáška - Dr. Katrlík)

Abstract published: In CHMELOVÁ, Daniela - ONDREJOVIČ, Miroslav (eds.). *Book of Abstracts: Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava, Slovakia*. Trnava: University of Ss. Cyril and Methodius in Trnava, 2019, p. 35-36. ISBN 978-80-8105-996-4. (AFF)

TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - JÁNÉ, Eduard - HÍREŠ, Michal - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika. Využitie glykánov v diagnostike rakoviny. In *Biochemické dni 2019, 21.-24. september 2019, Horný Smokovec, Slovensko*. (vyžiadaná prednáška - Dr. Tkáč)

Abstract published: In GAVURNÍKOVÁ, Gabriela (ed.). *Zborník abstraktov z konferencie Biochemické dni 2019, 21.-24. september 2019, Horný Smokovec, Slovensko*. Bratislava: Centrum vedecko-technických informácií SR, 2019, s. 64. ISBN 978-80-89965-27-4. (AFF)

TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - JÁNÉ, Eduard - HÍREŠ, Michal - KVĚTON, Filip - BLŠÁKOVÁ, Anna - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika. New biomarkers and biosensors for early detection of cancer. In *Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava, Slovakia*. (vyžiadaná prednáška - Dr. Tkáč)

Abstract published: In CHMELOVÁ, Daniela - ONDREJOVIČ, Miroslav (eds.). *Book of Abstracts: Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava, Slovakia*. Trnava: University of Ss. Cyril and Methodius in Trnava, 2019, p. 32-33. ISBN 978-80-8105-996-4. (AFF)

## 2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

BERTÓK, Tomáš. In Future Port Prague, Speakers 2019. Průmyslový palác, Výstaviště Praha, Česká republika, 10.-11.9.2019. (<https://www.futureportprague.com/speakers/>)

KATRLÍK, Jaroslav. Lectin-based biosensors and biochips. In Korea Research Institute of Bioscience and Biotechnology (KRIBB), KRIBB, Jeongseup, South Korea, 19.3.2019.

KATRLÍK, Jaroslav. Lectin-based biochips. In SIMM Glyco-science Seminar, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China, 1.11.2019.

LUX, Alexander. The reaction of selected characteristics of various plants exposed to toxic elements. In State Key Laboratory of Crop Genetics of Disease Resistance and Disease Control in

Sichuan Agricultural University, Wenjiang District, Chengdu, China, 13.5.2019.

VADKERTIOVÁ, Renáta. History and current activities of the Culture Collection of Yeasts and dreams about the future. In Polish Collection of Microorganisms PCM, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław, Poland, 28.5.2019.

VADKERTIOVÁ, Renáta. Yeasts and yeast-like organisms related to fruit trees. In HBLA und BA für Wein- und Obstbau, Klosterneuburg, Austria (11.Hefetagung), 4.7.2019.

## **2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019**

### **2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent**

#### **a) na Slovensku**

#### **b) v zahraničí**

### **2.7.2. Vynálezy prihlásené v roku 2019**

#### **a) na Slovensku**

Názov vynálezu: Biopreparát z *Exiguobacterium undae*, spôsob jeho výroby a jeho použitie

Číslo prihlášky: PP 50012-2018

Dátum priority: 2.10.2019

Majiteľ / spolumajiteľ: Ústav molekulárnej biológie SAV, Chemický ústav SAV, Ústav hudobnej vedy SAV, Technická univerzita vo Zvolene

Pôvodcovia vynálezu: Baráth Peter, Pangallo Domenico, Bauerová Vladena, Bučková Mária, Puškářová Andrea, Kraková Lucia, Nagy Štefan, Štafura Andrej, Jeszeová Lenka, Čulík Martin  
Ing., PhD. [TUZVO]

#### **b) v iných krajinách ako prioritná prihláška**

#### **c) PCT**

#### **d) EP**

#### **e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP**

### **2.7.3. Úžitkové vzory na Slovensku**

#### **a) prihlásené v roku 2019**

#### **b) udelené v roku 2019**

### **2.7.4. Realizované vynálezy**

#### **a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)**

#### **b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)**

*Finančný prínos pre organizáciu SAV v roku 2019 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.*



**2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)**

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bučko Marek	VEGA	1
Katrlík Jaroslav	VEGA	1
Pätoprstý Vladimír	APVV/VV 2019	1
	VEGA	2
Tkáč Ján	VEGA	1
Tvaroška Igor	APVV/VV 2019	2

**2.9. Účasť na spracovaní hesiel do encyklopédie Beliana**

Počet autorov hesiel: 0

**2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch**

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bertók Tomáš	0	0	4	0	0	0	0
Biely Peter	0	0	6	0	0	0	0
Capek Peter	0	0	3	0	0	0	0
Farkaš Pavol	0	0	4	0	0	1	0
Farkaš Vladimír	0	0	2	0	0	0	0
Gemeiner Peter	0	0	6	0	0	0	0
Hricovíni Miloš	0	0	2	0	0	0	0
Katrlík Jaroslav	0	0	3	0	0	0	0
Kollárová Karin	0	0	9	0	0	0	0
Kóňa Juraj	0	0	1	0	0	0	0
Košťálová Zuzana	0	0	4	0	0	0	0
Lux Alexander	0	0	8	0	0	0	0
Mastihuba Vladimír	0	0	2	0	0	0	0
Mastihubová Mária	0	0	2	0	0	0	0
Matulová Mária	0	0	3	0	0	0	0
Mičová Júlia	0	0	1	1	0	0	0
Paulovičová Ema	0	0	1	0	0	0	0

Petruš Ladislav	0	0	3	0	0	0	0
Puchart Vladimír	0	0	2	0	0	0	0
Schusterová Hana	0	0	5	0	0	0	0
Stratilová Eva	0	0	1	0	1	0	0
Šimkovic Ivan	0	0	12	0	0	0	0
Tkáč Ján	0	0	64	0	0	0	0
Vadkertiová Renáta	0	0	2	0	0	0	0
<b>Spolu</b>	<b>0</b>	<b>0</b>	<b>144</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>

## 2.11. Iné informácie k vedeckej činnosti

Z celkového počtu 65 vedeckých prác v časopisoch (oproti minulému roku nárast o 8) je 53 publikovaných v periodikách evidovaných v Current Contents Connect (CCC) (kategórie ADCA a ADDA), 11 prác je v časopisoch evidovaných vo Web of Science (WOS) a Scopus (kategórie ADMA a ADMB) a 1 práca je v kategórii ADEB (ostatné zahraničné časopisy), pričom na 11 % z týchto prác sú autormi len pracovníci ústavu, 23 % prác je publikovaných v spolupráci len s domácimi a 66 % aj so zahraničnými spoluautormi.

Impakt faktor (IF) periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.554 do 11.878 (v dvoch prípadoch IF presahuje hodnotu 11.000, v jednom prípade presahuje 9.000, v piatich prípadoch presahuje 6.000, v štyroch prípadoch presahuje 5.000, v deviatich prípadoch presahuje 4.000 a v devätnástich prípadoch presahuje hodnotu 3.000, pričom jeho priemerná hodnota 3.829 (oproti vlaňajšej hodnote nárast o 0.584) vo všetkých prípadoch presahuje (vo väčšine výrazne) hodnoty mediánu impakt faktora (MIF) pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.452 pre Biotechnology & Applied Microbiology, 2.066 pre Chemistry Organic, 2.870 pre Biochemistry & Molecular Biology, 1.839 pre Polymer Science a 2.492 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác. Túto skutočnosť potvrdzujú aj údaje o kvartiloch pre dané časopisy: podľa SJR sa 67.2 % z týchto časopisov nachádza v Q1 a 23.4 % v Q2 (spolu 90.6 % v Q1 a Q2). Podľa JCR je to 49.2 % v Q1 a 29.5 % v Q2 (spolu 78.7 % v Q1 a Q2).

Celkový počet citácií 3428 (z toho 3311 sú citácie vo WOS a Scopus) predstavuje oproti minulému roku nárast o 142 (u citácii z WOS a Scopus je to nárast o 28), čo možno tiež považovať za cenný kvantitatívny ale aj kvalitatívny ukazovateľ.

Na zahraničných a domácich vedeckých podujatiach bolo prezentovaných 127 príspevkov (prednášky a postre).

Prístup do elektronických databáz Thomson ISI (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (SciVerse-ScienceDirect, Wiley Online Library, Blackwell Synergy, SpringerLink, Knovel, Reaxys, SciFinder a čiastočne aj ACS Publications) značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Apelujeme na kompetentných, aby tento prístup ostal zachovaný aj v budúcnosti. Aj keď o užitočnosti časovo obmedzených prístupov do plnotextových databáz niektorých vydavateľstiev, sprostredkovaných Ústrednou knižnicou SAV niet pochýb, značným prínosom pre pracovníkov CHÚ SAV by bolo získanie prístupu do plných textov vybraných časopisov z databáz RSC Publishing (Royal Chemical Society), Thieme Journals (Thieme Medical Publishers), BenthamDirect (Bentham Science Publishers) a Taylor & Francis Group.

Značný počet vyžiadanych recenzií monografií, vedeckých prác v zahraničných časopisoch a grantových projektov zo zahraničia, účasť na medzinárodných vedeckých podujatiach, pozvaných

prednášok ako aj počet prijatých a vyslaných vedeckých pracovníkov svedčí o vysokej medzinárodnej reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom, resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií, resp. pozvaniami prednášať na zahraničných univerzitách a iných vedecko-výskumných inštitúciách a vedecko-odborných podujatiach.

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri získavaní grantov. Úhrne sa riešilo 68 projektov - z toho 48 domácich (VEGA - 27, APVV - 18, iné - 3) a 20 zahraničných (3 projekty 7. RP EÚ a H2020, 1 projekt JRP, 11 projektov COST, 2 projekty v rámci medzivládnych dohôd o VTS a 3 bilaterálne projekty), pričom z čerpaných finančných prostriedkov (cca 1009,1 tisíc €), bolo 273,1 tisíc € zo zahraničných projektov, 699,5 tisíc € z domácich projektov a 36,5 tisíc € bola podpora medzinárodnej spolupráce z národných zdrojov (MVTs a APVV) na projekty 7. RP EÚ a COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť štandardnú prevádzku pracoviska.

Dobudovaním technickej infraštruktúry pre glykomiku a biomedicínsky výskum v roku 2015 (získané finančné prostriedky z dvoch projektov OP ŠF vo výške 17,68 mil. € sa využili najmä na nákup prístrojov a príslušenstva) sa CHÚ SAV zaradil medzi moderné pracoviská v tejto oblasti.

Ústav trvale venuje pozornosť uplatneniu dosiahnutých výsledkov v priemyselnej praxi (priame kontakty s výrobnými podnikmi a súkromnými spoločnosťami, dohody o spolupráci, spoločné vedecko-výskumné projekty zamerané na realizáciu, účasť na výstavách), a to tak doma ako aj v zahraničí.

### 3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

#### 3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2019

Forma	Počet k 31.12.2019				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2019					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	4	14	2	2	3	8	2	3	0	0	0	0
Denná z iných zdrojov	1	3	1	1	0	2	0	0	0	0	0	0
Externá	0	1	0	0	0	1	0	0	0	0	0	0
Spolu	5	18	3	3	3	11	2	3	0	0	0	0
Súhrn	23		6		14		5		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2019 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

### 3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	0	0	0	0	0	0

### 3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2019 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Ivana Mišová	interné štúdium hrazené z prostriedkov SAV	9 / 2015	8 / 2019	4.1.22 biochémia	Mgr. Silvia Bágelová Poláková PhD., Centrum biovied SAV	Prírodovedecká fakulta UK
Ing. Mária Zajičková	interné štúdium hrazené z prostriedkov SAV	9 / 2015	8 / 2019	4.1.16 organická chémia	Ing. Miroslav Kooš DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU

### 3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2019 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Lucia Fraňová	interné štúdium hrazené z prostriedkov	9 / 2013	3 / 2019	4.1.22 biochémia	Mgr. Vladimír Puchart PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU

	SAV					
Ing. Michal Halaj	interné štúdium hradené z prostriedkov SAV	9 / 2014	8 / 2019	4.1.19 makromolekulová chémia	Mgr. Peter Capek PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Peter Kis	interné štúdium hradené z prostriedkov SAV	9 / 2014	8 / 2019	4.1.16 organická chémia	Ing. Mária Mastihubová PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU

### 3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2019 (obhajoba leto 2019)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
5	2	2	1	0

*Zoznam interných a externých doktorandov je uvedený v prílohe A.*

### 3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/1, PER/1

*Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.*

### 3.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
organická chémia	4.1.16	Fakulta chemickej a potravinárskej technológie STU
organická chémia	4.1.16	Prírodovedecká fakulta UK
fyzikálna chémia	4.1.18	Prírodovedecká fakulta UK
biochémia	4.1.22	Fakulta chemickej a potravinárskej technológie STU
biochémia	4.1.22	Prírodovedecká fakulta UK
mikrobiológia	4.2.7	
makromolekulová chémia	4.1.19	
biotechnológie	5.2.25	Fakulta chemickej a potravinárskej technológie STU
biotechnológie	5.2.25	Prírodovedecká fakulta UK

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Peter Biely, DrSc. (biochémia)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Peter Kis, PhD. (IIb)
Ing. Peter Gemeiner, DrSc. (biotechnológie)	Ing. Ján Tkáč, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Vladimír Sládek, PhD. (IIa)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Peter Kis, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Miloš Hricovíni, PhD. (chemická fyzika)		
Ing. Miroslav Kooš, DrSc. (organická chémia)		
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		
prof. RNDr. Alexander Lux, CSc. (odbor v zahraničí)		
Ing. Vladimír Mastihuba, PhD. (chémia a technológia požívatín)		
Ing. Vladimír Mastihuba, PhD.		

(biotechnológie)		
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		
Ing. Ján Tkáč, DrSc. (biochémia)		
Ing. Ján Tkáč, DrSc. (biotechnológie)		
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		

### 3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2019

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	6	0	8	1
Celkový počet hodín v r. 2019	32	0	666	13

*Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe D.*

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	19
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	23
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	20
4.	Počet školených doktorandov (aj pre iné inštitúcie)	31
5.	Počet oponovaných dizertačných a habilitačných prác	13
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	8
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	3
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	10
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	3

### 3.9. Iné dôležité informácie k pedagogickej činnosti

Chemický ústav SAV mal v roku 2019 akreditovaných 5 študijných odborov doktorandského štúdia: na Prírodovedeckej fakulte UK v Bratislave (4.1.16 organická chémia, 4.1.18 fyzikálna chémia, 4.1.22 biochémia, 5.2.25 biotechnológie) a na Fakulte chemickej a potravinárskej

technológie STU v Bratislave (4.1.16 organická chémia, 4.1.18 fyzikálna chémia, 4.1.19 makromolekulová chémia, 4.1.22 biochémia, 5.2.25 biotechnológie). V roku 2018 skončila platnosť akreditácie v odbore 4.2.7. mikrobiológia (na PriF UK) v dôsledku presiahnutia vekovej hranice 70 rokov u garanta.

V priebehu roka 2019 sa na CHÚ SAV školilo celkom 26 doktorandov (z toho 6 novoprijatých - v dennej forme štúdia), z ktorých 5 úspešne obhájilo doktorandskú dizertačnú prácu (z toho 3 v nadštandardnej dĺžke štúdia). Dve doktorandky ukončili denné štúdium bez obhajoby a pokračujú v nadštandardnej forme štúdia, pričom obhajoby dizertačných prác sa u nich predpokladá do 31.8.2020.

Zvýšil sa počet záujemcov o doktorandské štúdium na ústave, pričom najväčší záujem zo strany študentov je najmä o študijné odbory biotechnológie a biochémia. Dlhodobý menší záujem zo strany študentov je o ostatné odbory (fyzikálna chémia, makromolekulová chémia a organická chémia), napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných škopiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov, a týchto si prioritne prijímú na doktorandské štúdium jednotlivé fakulty.

Vďaka zahraničnému grantu (projekt FH2020-MSCA-ITN, Dr. Tkáč) boli na doktorandské štúdium v roku 2019 prijatí dvaja zahraniční doktorandi (MSc. Aguedo z Peru a MSc. Kundalia z Indie).

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2019, sa dá predpokladať, že v roku 2020 by mali doktorandskú dizertačnú prácu obhajovať 4 doktorandi.

Svoje požiadavky, návrhy, resp. pripomienky majú možnosť doktorandi predniesť, okrem iného, aj na Ústavnej rade prostredníctvom svojho voleného zástupcu.

Doktorandi a mladí vedeckí pracovníci sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Ocenit' treba najmä ich aktivity počas Dňa otvorených dverí na ústave, ktorý sa pravidelne koná každý rok v novembri. Viacerí sa aktívne zapájajú aj do pedagogickej a popularizačnej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách a aktivity v rámci Týždňa vedy a techniky na Slovensku a Noci výskumníkov. Za študijné a vedecké výsledky získali viacerí aj ocenenia (napr. Ing. Filip Květoň - Cena Shimadzu 2019 a Absolútny víťaz – ročník 2019 na Science Slam SAV, Ing. Štefánia Hrončeková - Cena Ernesta Šturdíka, Mgr. Erika Chocholová - Top študentská osobnosť Slovenska za akademický rok 2018/2019).

### ***Iná pedagogická činnosť***

Ing. Tomáš Bertók, PhD.

- vedenie preddiplomovej práce (Bc. Nikola Chrenková, 2. roč. Mgr. štúdia, PriF UK)
- konzultant príspevku na AMAVET 2019: Viktória Hupková (maturantka na Strednej zdravotníckej škole, Záhradnícka 44, Bratislava): "Development of biosensor for CEA oncomarker detection" (prezentácia: 18.10.2019)

Mgr. Tomáš Klunda, PhD.

- vyučovanie chémie (Bilingválne gymnázium C. S. Lewisa, Bratislava, 108 h).

RNDr. Lenka Lorencová, PhD.

- konzultant práce SOČ (Viktória Hupková: "Príprava afinitného biosenzora pre detekciu CEA biomarkera a diagnostiku nádorových ochorení", Bratislava, 2019, 1. miesto v školskom a krajskom kole)
- konzultant rigorózneho práce: Veronika Gajdošová: "Využitie nového perspektívneho nanomateriálu pri príprave senzorov" (Bratislava, obhajoba: 26.8.2019)
- konzultant príspevku na AMAVET 2019: Viktória Hupková (maturantka na Strednej zdravotníckej škole, Záhradnícka 44, Bratislava): "Development of biosensor for CEA oncomarker



detection“ (prezentácia: 18.10.2019)

Ing. Ema Paulovičová, CSc.

- vedenie študenta Lukáša Marôneka (6. ročník, Gymnázium, Pankúchova 6, Bratislava) pri vypracovaní laboratórnej práce k seminárnej úlohe “Imunomodulačná účinnosť glykooligosacharidov medicínsky dôležitých kvasiniek”.

## 4. Medzinárodná vedecká spolupráca

### 4.1. Medzinárodné vedecké podujatia

#### 4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2019 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

46. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 85 účastníkov, 07.05.-10.05.2019

Vedecký program konferencie bol rozdelený do štyroch sekcií: Yeast Biotechnology, Molecular and Cell Biology, Yeast Diversity and Interactions a Community Resources.

Na konferencii odznelo 30 prednášok, z ktorých 9 bolo vyžiadaných a hrađených Komisiou pre kvasinky. Prednášku venovanú pamiatke zakladateľke konferencií o kvasinkách A. Kockovej-Kratochvílovej, s názvom „Interspecies genomic introgressions: origin, evolution and function“, predniesol Giani Liti (Université Côte d'Azur, CNRS, INSERM, IRCAN, Nice, France). Okrem prednášok bolo prezentovaných 29 plagátových vývesiek a v rámci sekcie „Poster highlights“ odznelo 9 krátkych prezentácií, prednesených doktorandmi. Z 85 účastníkov bolo 48 zahraničných a pochádzali z 19 krajín, zo 4 kontinentov. Komisia pre kvasinky pri Československej spoločnosti mikrobiologickej vydala z podujatia Book of Abstracts: 46th Annual Conference on Yeasts (ISSN 1336-4839).

3. Konferencia INSTRUCT-ULTRA o štruktúre biomolekúl, Bratislava, Slovensko, 44 účastníkov, 14.11.-15.11.2019

Vedecký program sympózia bol zameraný na analýzu štruktúry biomolekúl, experimentálne (najmä NMR s vysokým rozlíšením a X-ray spektroskopia) a teoretické metódy (molekulová dynamika, DFT). Najnovšie poznatky v týchto oblastiach boli prezentované formou prednášok (17). Účastníci pochádzali z ČR, Talianska, Veľkej Británie a SR). Z podujatia bol vydaný Book of Abstracts: ISBN 978-80-971665-1-9

#### 4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2020 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

47th Annual Conference on Yeasts/47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 12.05.-15.05.2020, (Hana Schusterová, 02/ 59410262, chemhadu@savba.sk)

15th Bratislava Symposium on Saccharides/15. Bratislavské sympóziu o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 08.06.-12.06.2020, (Jaroslav Katrlík, 02/ 59410258, chemjkat@savba.sk)

8th International Symposium on Structure and Function of Roots/8. medzinárodné sympóziu o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 06.09.-10.09.2020, (Alexander Lux, 02/ 60296457, alexander.lux@fns.uniba.sk)

Chemistry towards Biology (CTB10) and INSTRUCT-ULTRA Structural biology meeting/Chémia smerom k biológii (CTB10) a INSTRUCT-ULTRA míting o štruktúre biomolekúl, Bratislava, Slovensko, 06.09.-10.09.2020, (Miloš Hricovíni, 02/ 59410323, 02/ 59410256, chemilos@savba.sk)

#### 4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Guthová Jana	0	1	0
Hirsch Ján	2	0	0
Hricovíni Miloš	0	0	1
Katrlík Jaroslav	1	0	0
Mastihuba Vladimír	1	0	0
Pätoprstý Vladimír	1	0	0
Schusterová Hana	0	1	0
Vadkertiová Renáta	0	0	1
<b>Spolu</b>	5	2	2

#### 4.2. Členstvo a funkcie v medzinárodných orgánoch

##### 4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

RNDr. Peter Biely, DrSc.

Československá spoločnosť mikrobiologická (funkcia: člen výboru Komisie pre kvasinky)  
International Academy of Wood Science (funkcia: volený člen (Fellow of IAWS))

Mgr. Peter Capek, PhD.

Management Committee COST Action CA18238 (funkcia: národný zástupca)

Ing. Pavol Farkaš, PhD.

Management Committee CA COST Action CA16231 (funkcia: národný zástupca)

Ing. Peter Gemeiner, DrSc.

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

European Carbohydrate Organization (funkcia: národný reprezentant)  
INSTRUCT-ERIC (European Research Infrastructure Consortium) (funkcia: zástupca SR)

International Carbohydrate Organization (funkcia: národný reprezentant)  
Management Committee COST Action CA18103 (funkcia: národný zástupca)

Ing. Zdenka Hromádková, PhD.

Management Committee COST Action CA18224 (funkcia: národný zástupca)

Ing. Jaroslav Katrlík, PhD.

International Glycoconjugate Organisation (funkcia: národný reprezentant)  
Management Committee CA COST Action CA16113 (funkcia: národný zástupca)  
Management Committee COST Action CA18103 (funkcia: MC Substitute)  
Management Committee CA COST Action CA18132 (funkcia: národný zástupca)

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Miroslav Kooš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

Ing. Zuzana Košťálová, PhD.

Management Committee COST Action CA18101 (funkcia: národný zástupca)

RNDr. Desana Lišková, PhD.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)  
International Association of Plant Tissue Cultures - Biotechnology (IAPTC-B) (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)  
International Society for Silicon in Agriculture (ISSAG) (funkcia: člen)  
Japanese Society for Plant Roots (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Management Committee COST Action CA18103 (funkcia: národný zástupca)  
Management Committee FPS COST Action CA17128 (funkcia: národný zástupca)  
Management Committee CA COST Action CA18101 (funkcia: MC Substitute)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)  
Management Committee COST Action CA18224 (funkcia: národný zástupca)  
Management Committee FPS COST Action CM1407 (funkcia: národný zástupca)  
Management Committee CA COST Action CA18132 (funkcia: MC Substitute)

RNDr. Ján Mucha, CSc.

Steering Committee of the ESF RNP in LEE „The EuroGlycosciences Forum” (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

American Society for Mass Spectrometry (funkcia: člen)

Arbeitsgruppe für Molekül-Spektroskopie der Österreichischen Gesellschaft für Analytische Chemie (funkcia: člen)

International Society for Mass Spectrometry (funkcia: reprezentant Slovenska)

doc. Ing. Ladislav Petruš, DrSc.

Česká společnost chemická (funkcia: čestný člen)

Ing. Hana Schusterová, PhD.

Československá spoločnosť mikrobiologická (funkcia: tajomníčka výboru Komisie pre kvasinky)

Management Committee COST Action CA15136 (funkcia: MC Substitute)

Ing. Katarína Šuchová, PhD.

Management Committee CA COST Action CA18229 (funkcia: národný zástupca)

Ing. Ján Tkáč, DrSc.

American Chemical Society (funkcia: člen)

Bioelectrochemical Society (funkcia: člen)

Management Committee COST Action CA18103 (funkcia: MC Substitute)

Management Committee CA COST Action CA18132 (funkcia: národný zástupca)

Ing. Igor Tvaroška, DrSc.

International Steering Committee of the International Consortium on Anti-Virals (ISC ICAV) (funkcia: člen)

Ing. Renáta Vadkertiová, PhD.

Československá spoločnosť mikrobiologická (funkcia: podpredsedníčka výboru Komisie pre kvasinky)

Zbierka kultúr kvasiniek

European Culture Collections' Organization (ECCO) (funkcia: člen)

World Federation for Culture Collections (WFCC) (funkcia: člen)

Chemický ústav SAV

Instruct-ERIC (European Research Infrastructure Consortium) (funkcia: člen)

CDG & Allies – PPAIN (Congenital Disorders of Glycosylation & Allies – Professionals and Patient Associations International Network) (funkcia: člen)

#### 4.3. Účast' expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Hricovíni Miloš	CEITEC Application, Masaryk University, Brno, Czech Republic	1
Katrlík Jaroslav	FIL-Quota Incentivante, University of Parma, Italy	1
	H2020-FETOPEN-2018-2019-2020-01	7
	H2020-MSCA-RISE-2019	7
	H2020-WIDESPREAD-03-2018 – Twinning	9
Lux Alexander	NWO Innovational Incentives Scheme/Talent Programme, Vidi 2019, The Netherlands	1
Tkáč Ján	KWF Unique High Risk Project, The Netherlands	1
	Program KONTAKT II (LH) – VES 15, Česko	1

#### 4.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Výsledky získané z projektovej MVTS (projekty COST, bilaterálne projekty, V4-Korea Joint Research Program, ...) v oblasti organických syntéz, glyko-biomarkerov pre medicínu (rôzne druhy rakoviny), glykonanomateriálov, výskumu glykánov, aplikácii karotenoidov a iných oblastiach, rezultovali v množstve spoločných publikácií a príspevkov na medzinárodných vedeckých konferenciách.

Okrem participácie na spoločných vedeckých projektoch umožňuje MVTS pracovníkom ústavu najmä dofinancovanie niektorých projektov EÚ, využitie špičkovej prístrojovej techniky (analytickej, výpočtovej) a inej infraštruktúry v zahraničí ako aj prístup k potrebným, doma chýbajúcim interdisciplinárnym metodikám, nedostupnej literatúre (knihy, patenty) a materiálnemu vybaveniu (chemikálie, laboratórne zariadenia a pomôcky, ...). V rámci uskutočnenej mobility získali pracovníci ústavu veľmi cenné experimentálne skúsenosti, zručnosti a teoretické poznatky z najmodernejších metodík využívaných v súčasnosti pri riešení vedeckých problémov.

Prostredníctvom MVTS sa viacerí riešitelia projektov mohli zúčastniť významných zahraničných vedeckých podujatí (konferencie, semináre, workshopy) a nadviazať nové kontakty a spolupráce. Viacerým doktorandom umožnila MVTS stáž na zahraničných pracoviskách.

*Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.*

*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.*

### 5. Koncepcia dlhodobého rozvoja organizácie

#### 5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

##### Comments and recommendations for further improvement of the institute

- The large number of expensive new sophisticated instruments obtained from the structural funds is seen as problematic, because follow up costs for management, maintenance and staff training that will be required to operate the instruments efficiently and at their full capacity will be a

considerable burden on the budget of the institute. This is particularly important as many of the instruments will be out-dated in a few years due to continuing technical developments, so that operating the instruments at their full capacity should be a near-term priority. A strategy for optimal use of this infrastructure within the SAS should be developed.

- An international scientific advisory board should be established.
- Hosting an ERC starting grant is a highlight of the institute. The research direction opened by this project should be continued at the institute after the ending of the grant period.
- Further improving output in high-level scientific journal publications and hiring younger personnel as scientific staff to decrease average age of scientists should be achieved.
- Eight scientific and two more service-oriented departments is a rather high number of departments. possibilities to consolidate different departments should be considered.

## **5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia**

### **A. Zvyšovanie kvantity a kvality výstupov výskumu**

- modifikovať existujúci stimulačný model odmeňovania publikačných výstupov jednotlivcov, ktorý bude okrem kategórií karentovaných publikácií ADC a ADD zohľadňovať aj publikácie v impaktovaných nekarentovaných časopisoch podľa WOS a SCOPUS (t.j. kategórie ADM a ADN) ako aj kvartil časopisu;
  - na základe pravidelného ročného vyhodnocovania publikačnej činnosti jednotlivcov (priemer za predošlé 4 roky) upravovať osobné hodnotenie a zaraďovanie do platových tried;
  - vyhodnocovanie publikačnej činnosti zohľadňovať aj pri možnosti vypisovania tém doktorandských prác, resp. pri žiadostiach o pridelenie doktoranda alebo postdoktoranda.
- Všetky uvedené opatrenia sa v roku 2019 realizovali a ďalej sa v nich pokračuje. Medziročne vzrástol počet publikácií v kvalitných vedeckých časopisoch (kvartily prevažne Q1 a Q2 ako aj nárast hodnoty pre Median Impact Factor, vypočítanej pre časopisy, v ktorých boli články publikované).

### **B. Zvyšovanie kvality doktorandského štúdia**

- vypracovať interné kritériá CHÚ SAV pre výber školiteľov; podmienkou je aktívna a kvalitná publikačná činnosť a existencia projektu, v rámci ktorého sa PhD štúdium realizuje;
  - venovať vyššiu pozornosť témam doktorandských prác z hľadiska obsahu, aktuálnosti a experimentálneho zabezpečenia;
  - výsledky doktorandov a stav doktorandského štúdia naďalej pravidelne vyhodnocovať;
  - zvyšovať podiel zahraničných doktorandov; umožniť stáže našich doktorandov v prestížnych laboratóriách a recipročne umožniť stáže zahraničných doktorandov na CHÚ SAV v nadväznosti na uzavreté dohody o spolupráci SAV s kvalitnými univerzitami.
- Všetky uvedené opatrenia sa v roku 2019 realizovali a ďalej sa v nich pokračuje.

### **C. Kariérny rast postdoktorandov a výskumníkov**

- vypracovať podmienky kariérneho rastu postdoktorandov;
  - vypracovať podmienky získania stálej pozície.
- Tieto podmienky zatiaľ vypracované neboli, ale pre potreby ústavu kariérny rast a získanie stálej pozície zabezpečuje vedenie ústavu v súčinnosti s VR.

### **D. Zvyšovanie úspešnosti v projektovej činnosti**

- iniciovať a stimulovať podávanie projektov ERC, ERA, Horizon 2020 a pod., osobitne v kategórii starting a consolidator grant, identifikovať potenciálnych podávateľov a pracovať s nimi;
  - pravidelne ročne analyzovať aktivitu organizácie v podávaní projektov;
  - pridelenie PhD študentov podmieňovať získaním grantov u potenciálnych školiteľov.
- Všetky uvedené opatrenia sa v roku 2019 realizovali a ďalej sa v nich pokračuje.

**E. Manažment ústavu**

- vytvoriť nezávislý medzinárodný poradný výbor (advisory board);
  - rozvíjať multidisciplinárny výskum v spolupráci s inými vedeckými organizáciami SAV a mimo SAV;
  - prehodnocovať činnosť jednotlivých oddelení a optimalizovať zloženie výskumných kolektívov.
- Medzinárodný poradný výbor bude vytvorený do konca februára 2020. Ostatné opatrenia sa v roku 2019 realizovali a ďalej sa v nich pokračuje.

**F. Nakladanie s duševným vlastníctvom**

- pripraviť vlastné pravidlá pre nakladanie s duševným vlastníctvom (patenty a pod.), resp. aplikovať takéto pravidlá spoločne pre celú SAV a stimulovať patentové aktivity vedeckých pracovníkov.
- Vlastné pravidlá zatiaľ vypracované neboli a aplikujú sa centrálné usmernenia zo SAV. Stimulácia sa rieši formou odmien.

**G. Financovanie a riadenie výskumných infraštruktúr**

- realizovať pravidelný audit využitia výskumnej infraštruktúry získanej za ostatných 10 rokov a odstrániť zistené nedostatky;
- pravidelne aktualizovať informácie o možnom použití významnejších zariadení pre vonkajších záujemcov tak zo SAV, ako aj mimo SAV;
- participovať na vypracovaní stratégie zapojenia sa svojou infraštruktúrou do tzv. core facility v rámci areálu SAV, prípadne v rámci ESFRI.

Prvé dve opatrenia sa v roku 2019 priebežne realizovali a ďalej sa v nich pokračuje. V súvislosti so zapojením sa do tzv. core facility očakávame, že sa situácia bude riešiť na celoakademickej úrovni a ústav je pripravený sa do týchto aktivít zapojiť.

**5.3. Aktualizácia Akčného plánu organizácie v roku 2019**

V roku 2019 nedošlo k výraznejšej aktualizácii Akčného plánu a priebežne sa plnili alebo modifikovali opatrenia prijaté v minulom období.

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria vedeckú náplň domácich i zahraničných projektov riešených na pracovisku. Pozornosť sa venuje aj cielenému výskumu realizovanému prostredníctvom hospodárskych zmlúv, kontraktov a plnením dohodnutých záväzkov v rámci zmluvnej spolupráce. Značná časť riešiteľskej kapacity ústavu sa venuje vypracovávaniu projektov a grantových žiadostí, a to nielen v rámci domácich agentúr VEGA a APVV a spolupráce s priemyselnou sférou, ale aj v rámci MVTs, a to najmä vo vedeckých programoch EÚ, bilaterálnych MAD, medziústavnej spolupráce. Ústav sa výrazne zapája aj do výziev OP ŠF EÚ. V roku 2015 získal CHÚ SAV nenávratný finančný príspevok na dva projekty: jeden v rámci výzvy OPVaV-2015/3.1/01-SORO pre bratislavský samosprávny kraj (ca 8.32 mil. €) a jeden v rámci výzvy OPVaV-2015/1.1/03-SORO pre mimobratislavské kraje (ca 9.86 mil €), v rámci ktorých bol ústav vybavený unikátnou prístrojovou technikou. V roku 2016 sa ústav zapojil (ako partner v 3 projektoch) do dvoch nových výziev ŠF EÚ (OPVaI-VA/DP/2016/1.2.1-03 a OPVaI-VA/DP/2016/1.2.1-02). Dva projekty boli úspešné, ale v roku 2017 boli tieto výzvy zrušené. Ústav sa následne zapojil do výziev (Výskumno-vývojové kapacity, RIS3, SPVVC a DSV) vyhlásených v rokoch 2018 a 2019 (v 3 projektoch ako žiadateľ a v 4 projektoch ako partner).

Organizačné členenie pracoviska na osem vedeckých oddelení, ktoré spolu tvoria Centrum glykomiky, a tri spoločné-nevedecké oddelenia reflektuje hlavné smery výskumu a požiadavky na jeho zabezpečenie. Vývoj v zameraní výskumu v ostatných rokoch (orientácia na biomedicínsky výskum) však naznačuje, že postupne bude žiadúca určitá reorganizácia jednotlivých oddelení. V rámci organizačnej štruktúry sa uplatňuje dvojstupňové riadenie: vedenie ústavu – vedúci

vedeckých a spoločných-nevedeckých oddelení.

Základnými dokumentmi pracoviska sú: Zriaďovacia listina Chemického ústavu SAV č. 951/0214/2003 zo dňa 11. decembra 2003 a Dodatok č. 1 (z 19. 12. 2008) k Zriaďovacej listine Chemického ústavu SAV č. 448/G/12/2008 (ktorým sa s účinnosťou od 1. 1. 2009 mení forma hospodárenia z rozpočtovej na príspevkovú), Pracovný poriadok, Organizačný poriadok, Platový poriadok, Bezpečnostné predpisy, Traumatologický plán, Pokyny pre kontrolnú činnosť, Dohoda medzi ústavmi SAV sídliačimi v budove správcovanej Chemickým ústavom a tiež Kolektívna zmluva so Základnou organizáciou odborového zväzu. V súvislosti s viacerými zmenami v zákonoch NR SR, nariadeniach vlády SR, vyhláškach a pokynoch MZ SR týkajúcich sa ochrany zdravia pri práci s nebezpečnými faktormi boli v roku 2008, 2009 a 2014 novelizované relevantné predpisy pre práce s nebezpečnými chemickými faktormi, biologickým materiálom, GMO a pre zaobchádzanie so zdrojmi ionizujúceho žiarenia, aplikované na pracovné podmienky v CHÚ SAV a získali príslušné oprávnenia od kompetentných orgánov. V roku 2018 boli aktualizované dokumenty súvisiace s civilnou ochranou obyvateľstva a vypracovávali sa dokumenty, súvisiace s ochranou osobných údajov (GDPR).

Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na ca 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedeckí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v roku 2019 mal ústav 1 držiteľ tohto štipendia - Dr. Sládek). Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov CHÚ SAV. V rámci novej schémy podpory prijímania mladých postdoktorandov v SAV (prijatých do zamestnania do jedného roka od ukončenia PhD štúdia) získal ústav v roku 2019 finančnú podporu pre troch prijatých postdoktorandov (Dr. Híreš, Dr. Hricovíni, Dr. Krajčovič). V roku 2019 ústav zamestnal 1 mladého postdoktoranda (do jedného roka od ukončenia PhD štúdia) a získal pre neho finančnú podporu od roku 2020. V rámci programu SASPRO (First Call 2014) pôsobil na ústave jeden postdoktorand (Dr. Kozmon, nastúpil v roku 2015). V 1. výzve programu Granty pre doktorandov SAV (DoktoGrant) boli úspešné 3 doktorandky a získali grant vo výške 2000 € na podporu svojich vedeckých projektov. V snahe získať mladých adeptov vedy sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie diplomových prác, preddiplomová prax) a propagujú výsledky vedeckej činnosti (médiá, konferencie, semináre, letné školy, dni otvorených dverí, ...).

Z prostriedkov ŠF EÚ (projekt "Capacity") je ambíciou prijať niekoľko doktorandov nad limit stanovený pre ústav z centrálnych zdrojov a taktiež zamestnať úspešných a kvalitných postdoktorandov.

## **6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4**

### **6.1. Spoločné pracoviská organizácie**

#### **6.1.1. Spolupráca s univerzitami/VŠ (fakultami)**

**Názov univerzity/vysokej školy a fakulty:** Fakulta biotechnológie a potravinárstva SPU

**Oblasť spolupráce:** Spoločné pracovisko metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu

**Sídlo spoločného pracoviska (ak je vytvorené):** Fakulta biotechnológie a potravinárstva SPU v Nitre

**Začiatok spolupráce:** 2009

**Zhodnotenie:** Dňa 2. septembra 2009 Chemický ústav SAV a Fakulta biotechnológie a



potravínarstva SPU v Nitre podpísali dokument „Dohoda o vytvorení spoločného pracoviska metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu“. Cieľom spoločného pracoviska, ktoré je umiestnené v priestoroch CHÚ SAV v Bratislave a Katedry biochémie a biotechnológie FBP SPU v Nitre, je príprava a realizácia vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky a výchova odborných, vedeckých a pedagogických pracovníkov. V rokoch 2011 a 2013 pracovisko implementovalo projekty ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“ a "Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií“ (výzva OPVaV-2013/1.1/02-SORO, 2.88 mil. €), v rámci ktorých sa obstarala špičková prístrojová technika.

**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU  
**Oblasť spolupráce:** Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)  
**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV  
**Začiatok spolupráce:** 2007

**Zhodnotenie:** Dňa 11. mája 2007 bol podpísaný dokument „Zmluva a štatút o združení právnických osôb s názvom Národné centrum nukleárnej magnetickej rezonancie na Slovensku“ (NC NMR). Zmluvu podpísali: FCHPT, STU v Bratislave, FEI TU a UPJŠ v Košiciach, PriF UK, Chemický ústav SAV a Ústav merania SAV v Bratislave. NC NMR bolo vytvorené za účelom zabezpečovania potrieb NMR služieb v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami, zvyšovania vedomostného potenciálu v oblasti NMR. Sieť NC NMR tvoria Centrá NMR. Na CHÚ SAV je lokalizované Centrum pre štúdium dynamiky a interakcií biomolekúl, ktoré bolo v roku 2009 vybavené NMR prístrojmi Varian (600 MHz a 400 MHz). V roku 2015 bolo pracovisko vybavené (z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008, ktorého nositeľom bol CHÚ SAV) špičkovými NMR prístrojmi Bruker: NMR Spectrometer Avance III HD 600MHz (2.344 mil. €) a Avance III HD 400MHz (1.021 mil. €).

**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU  
**Oblasť spolupráce:** Združené laboratórium Fourier Transform Infrared Spectroscopy  
**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV  
**Začiatok spolupráce:** 1995

**Zhodnotenie:** Združené laboratórium Fourier Transform Infrared (FTIR) Spectroscopy, založené v roku 1995, je spoločným pracoviskom Chemického ústavu SAV, Ústavu anorganickej chémie SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Vybavené je spektrometrom NICOLET 6700, zakúpeným v roku 2008 z prostriedkov projektu MACHINA a slúži pre potreby výskumu, na pedagogické účely ako aj základné servisné merania. V r. 2010 bol spektrometer doplnený o ďalšie príslušenstvo. Neskôr bol doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť. Z prostriedkov ŠF EÚ získalo pracovisko v r. 2012 disperzný DXR Raman mikroskop a v r. 2015 bolo pracovisko vybavené špičkovými prístrojmi: FTIR Mikroskop Nicolet iN10 a FTIR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FTIR Raman (Thermo Fisher Scientific) z prostriedkov ŠF EÚ. Výstupy v roku 2019: 3 publikácie a 4 príspevky na vedeckých konferenciách.

**Názov univerzity/vysokej školy a fakulty:** Fakulta elektrotechniky a informatiky TUKE  
**Oblasť spolupráce:** Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)  
**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV  
**Začiatok spolupráce:** 2007  
**Zhodnotenie:** Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK

**Oblasť spolupráce:** Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV

**Začiatok spolupráce:** 2007

**Zhodnotenie:** Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK

**Oblasť spolupráce:** Združené laboratórium Fourier Transform Infrared Spectroscopy

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 1995

**Zhodnotenie:** Vid' informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UPJŠ

**Oblasť spolupráce:** Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV

**Začiatok spolupráce:** 2007

**Zhodnotenie:** Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu.*

#### 6.1.2. Spoločné pracoviská s inými organizáciami SAV

**Názov organizácie:** Ústav anorganickej chémie SAV

**Oblasť spolupráce:** Združené laboratórium Fourier Transform Infrared Spectroscopy

**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV

**Začiatok spolupráce:** 1995

**Zhodnotenie:** Vid' informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

**Názov organizácie:** Ústav merania SAV

**Oblasť spolupráce:** Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

**Sídlo spoločného pracoviska (ak je vytvorené):** Chemický ústav SAV

**Začiatok spolupráce:** 2007

**Zhodnotenie:** Vid' informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

*Pozn.: uvádzajú sa len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu.*

#### 6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

**Názov inštitúcie:** Axxence s.r.o.

**Oblasť spolupráce:** Axxence Park-Hala 1: Aplikovaný výskum v oblasti priemyselnej biokatalýzy

**Sídlo spoločného pracoviska (ak je vytvorené):** Axxence s.r.o., Bratislava, Axxence Park - Hala 1

**Začiatok spolupráce:** 2013

**Zhodnotenie:** Dňa 4. marca 2013 Chemický ústav SAV a súkromná spoločnosť Axxence s.r.o. v Bratislave podpísali dokument „Zmluva o spoločnom pracovisku“ vyplývajúci z realizácie projektu Aplikovaný výskum v oblasti priemyselnej biokatalýzy. Cieľom spoločného pracoviska, ktoré sa nachádza v priestoroch „Axxence Park“ označených ako Hala 1, je poskytovanie komplexnej infraštruktúry pre efektívnejší aplikovaný výskum procesu izolácie prírodných aróm a ich finálnej

purifikácie. Súčasťou spoločného pracoviska je zariadenie na vákuovú rektifikáciu poskytujúce vysokoúčinnú separáciu skúmaných látok. V minulosti sa riešili spoločné vedecké projekty.

**Názov inštitúcie:** Saneca Pharmaceuticals a.s., Hlohovec

**Oblasť spolupráce:** Saneca-Infraštruktúra-HL: Aplikovaný výskum v oblasti biomedicíny

**Sídlo spoločného pracoviska (ak je vytvorené):** Saneca Pharmaceuticals a.s., Hlohovec

**Začiatok spolupráce:** 2015

**Zhodnotenie:** Dňa 17. augusta 2015 Chemický ústav SAV a súkromná spoločnosť Saneca Pharmaceuticals a.s., Hlohovec podpísali dokument „Zmluva o spolupráci“ vyplývajúci z realizácie projektu ŠF EÚ "Technická infraštruktúra výskumného pracoviska" s cieľom vytvorenia a vybavenia pracoviska, ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie a izolácie dôležitých prírodných látok, resp. ich prekursorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko v r. 2015 vybavené modernou prístrojovou technikou v hodnote 9.86 mil. €. Túto v súčasnosti využívajú všetky subjekty Združenia právnických osôb Omics4Health (O4H), ktoré vzniklo v r. 2015 (CHÚ SAV, Ústav experimentálnej farmakológie a toxikológie SAV a súkromné spoločnosti Saneca Pharmaceuticals a.s., Biosynth, s.r.o. a SITNO Pharma s.r.o.). Pripravujú sa ďalšie spoločné projekty do aktuálnych výziev OP ŠF.

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu.*

### 6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

**Názov projektu:** Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov

**Agentúra:** APVV

**číslo projektu:** APVV-18-0188

**Spolupracujúce inštitúcie:** Fakulta chemickej a potravinárskej technológie STU

**Koordinátor projektu:** Ing. Vladimír Mastihuba, PhD.

**Začiatok spolupráce:** 2019

**Koniec spolupráce:** 2023

**Názov projektu:** Identifikácia a vlastnosti biologicky aktívnych látok izolovaných v rámci fytochemických štúdií

**Agentúra:** VEGA

**číslo projektu:** 1/0763/19

**Spolupracujúce inštitúcie:** Fakulta chemickej a potravinárskej technológie STU

**Koordinátor projektu:** Ing. Michal Šoral, PhD.

**Začiatok spolupráce:** 2019

**Koniec spolupráce:** 2021

**Názov projektu:** Multi-škálové modelovanie interakcií atómov prechodných kovov a heterocyklických a cukrom-podobných látok

**Agentúra:** VEGA

**číslo projektu:** 2/0035/16

**Spolupracujúce inštitúcie:** Fakulta chemickej a potravinárskej technológie STU

**Koordinátor projektu:** Ing. Vladimír Sládek, PhD.

**Začiatok spolupráce:** 2016

**Koniec spolupráce:** 2019

**Názov projektu:** Vývoj nových imobilizovaných biokatalyzátorov s využitím rekombinantných

mikroorganizmov pre biokatalytické kaskádové reakcie

**Agentúra:** VEGA

**číslo projektu:** 2/0090/16

**Spolupracujúce inštitúcie:** Fakulta chemickej a potravinárskej technológie STU

**Koordinátor projektu:** Ing. Marek Bučko, PhD.

**Začiatok spolupráce:** 2016

**Koniec spolupráce:** 2019

**Názov projektu:** Imobilizované rekombinantné mikroorganizmy pre biotechnologickú produkciu chemických špecialít pomocou biokatalytických kaskádových reakcií

**Agentúra:** APVV

**číslo projektu:** APVV-15-0227

**Spolupracujúce inštitúcie:** Fakulta chemickej a potravinárskej technológie STU; Medzinárodné laserové centrum

**Koordinátora projektu:** Ing. Marek Bučko, PhD.

**Začiatok spolupráce:** 2016

**Koniec spolupráce:** 2020

**Názov projektu:** Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok

**Agentúra:** APVV

**číslo projektu:** APVV-17-0239

**Spolupracujúce inštitúcie:** Farmaceutická fakulta UK; ICARST, n.o.

**Koordinátor projektu:** doc. Ing. Vladimír Frečer, DrSc.

**Začiatok spolupráce:** 2018

**Koniec spolupráce:** 2022

**Názov projektu:** Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty

**Agentúra:** EC Brussels

**číslo projektu:** Grant agreement ID: 825586

**Spolupracujúce inštitúcie:** Glycanostics, s.r.o.

**Koordinátor projektu:** Ing. Ján Tkáč, DrSc.

**Začiatok spolupráce:** 2018

**Koniec spolupráce:** 2022

**Názov projektu:** Analýza glykoforiem transferínu ako potencionálnych účinných biomarkerov pre medicínu

**Agentúra:** APVV

**číslo projektu:** APVV-SK-SRB-18-0028

**Spolupracujúce inštitúcie:** Institute for Applied Nuclear Energy, University of Belgrade, Belgrade, Serbia

**Koordinátor projektu:** Ing. Jaroslav Katrlík, PhD.

**Začiatok spolupráce:** 2019

**Koniec spolupráce:** 2020

**Názov projektu:** Vývoj bioanalytických systémov založených na nových lektínoch so zlepšenou špecifitou pre aplikácie v diagnostike

**Agentúra:** APVV

**číslo projektu:** SK-KR-18-0004

**Spolupracujúce inštitúcie:** Korea Research Institute of Bioscience and Biotechnology, Daejeon, Korea

**Koordinátor projektu:** Ing. Jaroslav Katrlík, PhD.

**Začiatok spolupráce:** 2018

**Koniec spolupráce:** 2019

**Názov projektu:** Odozva O-špecifických polysacharidov a cholera

**Agentúra:** Massachusetts General Hospital

**číslo projektu:** 5R01AI106878-02

**Spolupracujúce inštitúcie:** Massachusetts General Hospital, Boston, MA, USA

**Koordinátor projektu:** Dr. Edward T. Ryan, MD

**Začiatok spolupráce:** 2015

**Koniec spolupráce:** 2019

**Názov projektu:** Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách

**Agentúra:** APVV

**číslo projektu:** APVV-17-0164

**Spolupracujúce inštitúcie:** Prirodovedecká fakulta UK

**Koordinátor projektu:** RNDr. Marek Vaculík, PhD.

**Začiatok spolupráce:** 2018

**Koniec spolupráce:** 2022

**Názov projektu:** Štruktúrne a funkčné adaptácie vybraných extremofilov a poľnohospodárskych plodín na abiotické stresory

**Agentúra:** VEGA

**číslo projektu:** 1/0605/2017

**Spolupracujúce inštitúcie:** Prirodovedecká fakulta UK

**Koordinátor projektu:** Mgr. Marek Vaculík, PhD.

**Začiatok spolupráce:** 2017

**Koniec spolupráce:** 2020

**Názov projektu:** Vývoj nových techník úpravy biomedicínskych a environmentálnych vzoriek pre pokročilé kombinované analytické metódy

**Agentúra:** VEGA

**číslo projektu:** 1/0787/18

**Spolupracujúce inštitúcie:** Prirodovedecká fakulta UK

**Koordinátor projektu:** doc. RNDr. Marián Masár, PhD.

**Začiatok spolupráce:** 2018

**Koniec spolupráce:** 2021

**Názov projektu:** Mikroelektroforetické nástroje pre bioanalýzu

**Agentúra:** V4-Korea Joint Reseach Program

**číslo projektu:** nemá

**Spolupracujúce inštitúcie:** Ústav analytické chemie AV ČR, v.v.i., Brno, Česko; Centre for Molecular Medicine, University of Debrecen, Debrecen, Hungary; Medical University of Gdansk, Gdansk, Poland; Bioanalytical Chemistry Laboratory, Seoul National University, Seoul, Korea

**Koordinátor projektu:** Prof. Doo Soo Chung

**Začiatok spolupráce:** 2017

**Koniec spolupráce:** 2020

*Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci .*

#### 6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Spolupracujúca inštitúcia: Botanický ústav Akadémie vied ČR, Třeboň, Česko - neformálna spolupráca. Zameranie: Výskum nových sladkovodných rias s významnou produkciou extracelulárnych polysacharidov. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie.

Spolupracujúca inštitúcia: Celal Bayar University, Faculty of Engineering, Food Engineering Department, Manisa, Turkey - podpísaná dohoda o spolupráci. Zameranie: Valorizácia potravinových odpadov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, Poland - neformálna spolupráca. Zameranie: Štúdium polysacharidových kompozitných vrstiev. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Ege University, Engineering Faculty, Food Engineering Department, Izmir, Turkey - podpísaná dohoda o spolupráci. Zameranie: Izolácia a charakterizácia polysacharidov z agro-industriálnych lesných odpadov. Zhodnotenie: Výsledkom spolupráce je príprava spoločného bilaterálneho projektu.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie - neformálna spolupráca. Zameranie: a) analýza nutraceutík a polysacharidových zložiek cereálií; b) štúdium štruktúry a vlastností biologicky aktívnych sacharidov; c) štúdium lektínových biočipov a biosenzorov; d) imunobiologická aktivita látok pre biomedicínske aplikácie. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia a vedenie diplomovej a Bc. práce.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie - neformálna spolupráca. Zameranie: Štúdium lektínových biočipov a biosenzorov; štúdium enzýmových transglykozylačných reakcií a chemoselektívnych enzýmových acylácií a deacylácií. Zhodnotenie: Výsledkom spolupráce je vedenie 2 diplomových prác, 1 Bc. práce a odborné konzultácie a pedagogické aktivity.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav fyzikálnej chémie a chemickej fyziky, Oddelenie fyzikálnej chémie - neformálna spolupráca. Zameranie: Stanovenie štruktúry sacharidových derivátov X-ray technikami. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav chemického a environmentálneho inžinierstva, Oddelenie chemického a biochemického inžinierstva - neformálna spolupráca. Zameranie: Štúdium enzýmových transglykozylačných reakcií. Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie a pedagogické aktivity.

Spolupracujúca inštitúcia: Fakulta prírodných vied UCM, Katedra biotechnológií, Trnava - neformálna spolupráca. Zameranie: a) Štúdium lektínových biočipov a biosenzorov; b) Štúdium enzýmových glykozylácií. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 2 príspevky na vedeckých konferenciách, školenie 1 doktorandky, vedenie 1 diplomovej práce.

Spolupracujúca inštitúcia: Fakulta prírodných vied UCM, Katedra chémie, Trnava - podpísaná dohoda o spolupráci. Zameranie: Riešenie vedecko-výskumných úloh, výchova absolventov a doktorandov a využívanie modernej prístrojovej techniky. Zhodnotenie: Konzultácie a oponentúry Bc. a diplomových prác.

Spolupracujúca inštitúcia: Fakultná nemocnica Trenčín, Onkologické oddelenie, Bratislava - neformálna spolupráca. Zameranie: Identifikácia onkologických ochorení. Zhodnotenie: Predúprava a meranie vzoriek sér pacientov s onkologickým ochorením (rakovina hrubého čreva, prsníka a prostaty) pred a po liečbe, resp. zákroku s cieľom identifikovať potenciálne zmeny v glykoproteínoch vybraných proteínov v súvislosti s ochorením.

Spolupracujúca inštitúcia: Farmaceutická fakulta UK, Katedra bunkovej a molekulárnej biológie liečiv - neformálna spolupráca. Zameranie: Kultivácia a analýzy vybraných liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je vedenie 1 diplomovej práce.

Spolupracujúca inštitúcia: Friedrich Schiller University of Jena, Institute of Organic Chemistry and Macromolecular Chemistry, Centre of Excellence for Polysaccharide Research, Jena, Germany - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Fyzikální ústav, AV ČR, Praha, Česko - neformálna spolupráca. Zameranie: Nanoštrukturové hybridné organicko-anorganické komponenty. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie a 3 príspevky na vedeckých konferenciách.

Spolupracujúca inštitúcia: Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland - neformálna spolupráca. Zameranie: Nanoštruktúra biopolymérov z mikrorias. Zhodnotenie: Spolupráca pri vyhodnocovaní experimentálnych výsledkov.

Spolupracujúca inštitúcia: Jesséniova lekárska fakulta, Ústav farmakológie, Martin - neformálna spolupráca. Zameranie: Štúdium farmakodynamických vlastností biopolymérov izolovaných z liečivých rastlín a mikrorias. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Konkuk University, Seoul, Korea - neformálna spolupráca. Zameranie: Nanoštrukturové hybridné organicko-anorganické solárne články. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia a 2 prezentácie na vedeckých konferenciách.

Spolupracujúca inštitúcia: Lodz University of Technology, Institute of Fermentation Technology and Microbiology, Department of Environmental Biotechnology, Lodz, Poland - neformálna spolupráca. Zameranie: Metschnikowia pulcherrima ako zdroj lipidov a pulcherimínu. Zhodnotenie: Štúdium biodiverzity a vlastností kmeňov kvasiniek skupiny Metschnikowia pulcherrima a ich úlohy v ekosystéme. Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Masarykova univerzita, CEITEC, Brno, Česko - neformálna spolupráca. Zameranie: Štúdium neväzbových interakcií sacharidov a reakčného mechanizmu glykozylntransferáz použitím výpočtových metód. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 2 príspevky na vedeckých konferenciách.

Spolupracujúca inštitúcia: Masarykova univerzita, Přírodovědecká fakulta, Národní centrum pro výzkum biomolekul, Brno, Česko - neformálna spolupráca. Zameranie: Štúdium katalytického mechanizmu glykozylntransferáz. Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prezentácia na vedeckej konferencii.

Spolupracujúca inštitúcia: N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Laboratory of Glycoconjugate Chemistry, Moscow, Russia - neformálna spolupráca. Zameranie: Výskum imunomodulačných vlastností synteticky pripravených oligosacharidov in vivo a ex vivo. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Národné poľnohospodárske a potravinárske centrum, Výskumný ústav živočíšnej výroby Nitra, Ústav včelárstva, Liptovský Hrádok - neformálna spolupráca. Zameranie: Štúdium látok vo všeobecnej larválnej kašičke s antipatogénnym účinkom voči niektorým larválnym patogénom. Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie a výskumný materiál.

Spolupracujúca inštitúcia: National Cheng Kung University in Tainan, Department of Medical Laboratory Science and Biotechnology, Taiwan - neformálna spolupráca. Zameranie: Štrukturálna analýza extracelulárnych biopolymérov. Zhodnotenie: Výsledkom spolupráce je štúdium štrukturálnych a fyzikálno-chemických vlastností a biologických účinkov extracelulárnych biopolymérov produkovaných mikróriami a využívanie moderných metód chemických analýz.

Spolupracujúca inštitúcia: Prírodovedecká fakulta UK, Katedra biochémie, Laboratórium biochémie mykobaktérií - neformálna spolupráca. Zameranie: Štúdium, návrh a modelovanie možných inhibítorov enzýmov podieľajúcich sa na syntéze galaktánového reťazca bunkovej steny mykobaktérií. Zhodnotenie: Získali sa prvé poznatky v oblasti dizajnu inhibítorov.

Spolupracujúca inštitúcia: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie - neformálna spolupráca. Zameranie: Úloha CR3-RP v adherencii kvasinky *Candida albicans* a jeho imunologické vlastnosti. Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Spolupracujúca inštitúcia: Qatar University, Doha, Qatar - neformálna spolupráca. Zameranie: a) Štúdium glykánových a lektínových biosenzorov; b) štúdium polysacharidových kompozitných vrstiev. Zhodnotenie: Výsledkom spolupráce je 1 kapitola v knihe, 13 spoločných publikácií a 2 príspevky na vedeckých konferenciách.

Spolupracujúca inštitúcia: Rikkyo (St. Paul's) University, Japan College of Science, Department of Chemistry, Tokyo, Japan - podpísaná dohoda o spolupráci. Zameranie: Štúdium neväzbových interakcií sacharidov a ich analógov použitím výpočtových metód; aplikácie ab initio metód kvantovej chémie na charakterizáciu a predikciu interakcií proteínov. Zhodnotenie: Výsledkom spolupráce sú 3 spoločné publikácie a 2 príspevky na vedeckých konferenciách.

Spolupracujúca inštitúcia: The Catholic University of Korea, Department of Biotechnology, Bucheon, Republic of Korea - neformálna spolupráca. Zameranie: Štruktúra a biologická aktivita polysacharidov z rias. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Universität für Bodenkultur, Institut für Chemie, Wien, Österreich - neformálna spolupráca. Zameranie: Štruktúrna analýza N- a O-viazaných oligosacharidov; MS/MS analýza glykokonjugátov; štruktúra glykopeptidov; definícia glykoprotéinu krvného séra v diagnostike. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia a krátkodobé študijné pobyty.

Spolupracujúca inštitúcia: Université Blaise Pascal, Institut de Chimie de Clermont-Ferrand (ICCF), Aubiere, France - neformálna spolupráca. Zameranie: NMR štúdium štruktúry biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody; analýza polysacharidov. Zhodnotenie: Výsledkom spolupráce je 1 kapitola v knihe.

Spolupracujúca inštitúcia: University of Adelaide, School of Agriculture, Food and Wine, and Waite Research Institute, Glen Osmond, Australia - neformálna spolupráca. Zameranie: Štúdium bunkových stien rastlín. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie a 2 príspevky na vedeckých konferenciách.

Spolupracujúca inštitúcia: Univerzita Karlova a Všeobecní fakultní nemocnice, 1. Lékařská fakulta



a Klinika detského a dorastového lekárství, Praha, Česko - neformálna spolupráca. Zameranie: Dedičné metabolické ochorenia/GSD/ a štruktúrna analýza krvného ApoCIII/identifikácia O-viazaných oligosacharidov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia a odborné konzultácie.

Spolupracujúca inštitúcia: Univerzita Palackého v Olomouci, Lékařská fakulta, Ústav molekulární a translační medicíny, Česko - neformálna spolupráca. Zameranie: Testovanie cytotoxickéj a antimikróbnej aktivity sacharidových derivátov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Univerzita Palackého v Olomouci, Přírodovědecká fakulta, Katedra organické chemie, Česko - neformálna spolupráca. Zameranie: Syntéza a cytotoxická aktivita sacharidových derivátov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Univerzita T. Bati, Zlín, Česko - neformálna spolupráca. Zameranie: Štúdium polysacharidových kompozitných vrstiev. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Ústav přístrojové techniky AV ČR, Oddělení elektronové mikroskopie, Brno, Česko - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 publikácia odoslaná do redakcie.

Spolupracujúca inštitúcia: Vedeckovýskumná základňa SZU, Oddelenie mikrobiológie, Bratislava - neformálna spolupráca. Zameranie: Štúdium a identifikácia baktérií V. cholerae. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Vedeckovýskumná základňa SZU, Oddelenie toxikológie, Bratislava - neformálna spolupráca. Zameranie: Štúdium imunobiologických vlastností polysacharidových konjugátov in vivo. Zhodnotenie: Vyhodnocovanie výsledkov a príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Vienna University of Technology, Institute of Applied Synthetic Chemistry, Vienna, Austria - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Spolupracujúca inštitúcia: Vysoká škola chemicko-technologická v Praze, Fakulta potravinářské a biochemické technologie, Ústav sacharidů a cereálií, Praha, Česko - neformálna spolupráca. Zameranie: Štruktúra a biologická aktivita rastlinných biopolymérov. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Vysoké učení technické v Brně, Fakulta chemická, Ústav chemie potravin a biotechnologií, Brno, Česko - neformálna spolupráca. Zameranie: a) mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z potravinárskych výrob/metódy biotypizácie mikroorganizmov; b) identifikácia kvasiniek molekulárno-biologickými metódami a hmotnostnou spektrometriou; c) monitoring pigmentotvorných a tukotvorných kvasiniek. Zhodnotenie: Výsledkom je 1 spoločná publikácia a 2 prezentácie na vedeckej konferencii.

Spolupracujúca inštitúcia: Wroclaw University of Science and Technology, Faculty of Chemistry, Department of Organic and Pharmaceutical Technology, Wroclaw, Poland - neformálna spolupráca. Zameranie: Štruktúra, biologická aktivita a vlastnosti fenolických glykokonjugátov z liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: University of Copenhagen, Department of Plant and Environmental

Sciences, Frederiksberg, Denmark - neformálna spolupráca. Zameranie: In-vivo stanovenie transglykozylačných reakcií. Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Spolupracujúca inštitúcia: Universidad Complutense de Madrid, Facultad de Farmacia, Departamento de Microbiología II, Madrid, Spain - neformálna spolupráca. Zameranie: Štúdium Crh proteínov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

## **7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi**

### **7.1. Výsledky výskumu organizácie aplikované v praxi**

#### **7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)**

Názov/účel kontraktového výskumu: Izolácia neprístupných štruktúr acetylxylnu a enzýmy ich hydrolýzy (Isolation of recalcitrant acetylxyln structures and enzymes of their hydrolysis) (Zodpovedný riešiteľ: RNDr. Peter Biely, DrSc.)

Zadávatel' výskumného kontraktu: Novozymes A/S, Bagsvaerd, Denmark

Začiatok spolupráce: 2017

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 10000

#### **7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi**

Aplikant: Národný ústav detských chorôb, Detská klinika Lekárskej fakulty UK a Oddelenie laboratórnej medicíny NÚDCH, Centrum dedičných metabolických porúch, Bratislava. Aplikácia výsledku: Spoluúčasť NMR laboratória CHÚ SAV v diagnostike niektorých zriedkavých dedičných porúch metabolizmu pomocou cielenej NMR metabolomickej analýzy telových tekutín (moč, sérum, plazma) detských pacientov. Výsledkom bola 1 spoločná publikácia a 2 prezentácie na vedeckých konferenciách.

Aplikant: Alexander Kiss (včelár zo Šiah). Aplikácia výsledku: Výsledky analýz a porovnania antimikrobiálneho potenciálu materských kašičiek z vybraných včelstiev využíva chovateľ včelích matiek s vlastnou líniou včiel ako jeden z parametrov pri selekcii včelstiev vhodných na chov a produkciu včelích matiek.

Poradenská činnosť v súvislosti s predanou licenciou na využívanie produkčného kmeňa a technológie na prípravu spórových inokúl huby Trichoderma, ktoré sú predmetom SK patentu č. 288023 (PP 5108-2008), v prevádzke Biozávod, Petrova Ves. Odberateľ: Azoter Trading, s.r.o., Bratislava.

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: 1) SN AGRO, s.r.o., Malacky; finančný prínos: 165 €; 2) Welldrilling, s.r.o., Bratislava; finančný prínos: 382 €; 3) Spol'ahni sa, s.r.o., Bernolákovo; finančný prínos: 89 €; 4) INTECH SLOVAKIA, s.r.o.; finančný prínos: 234 €; 5) súkromné osoby; finančný prínos: 1994 €.

Poradenská a expertízna činnosť v súvislosti s využívaním prístroja Iónová mobilita MS; separácia a identifikácia vzoriek organických látok. Odberateľ: MaSa Tech, s.r.o., Bratislava.

Testovanie softvéru Mass Frontier 8.0 k interpretácii fragmentácie organických zlúčenín a komplikovaných chromatografov. Testovanie softvéru TreeRobot na získavanie HR hmotnostných

spektier a budovanie databázy hmotnostných spektier. Odberateľ: HighChem, Ltd., Bratislava.

LC-MS analýza vzoriek. Odberateľ: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Bratislava; finančný prínos: 3750 €; 2) MIKROCHEM, s.r.o, Pezinok; finančný prínos: 400 €.

LC-MS a NMR analýza vzoriek. Odberateľ: Prírodovedecká fakulta UK, Bratislava; finančný prínos: 3603 €.

Analýza vzoriek. Odberateľ: 1) Lemkowie, s.r.o., Bratislava; finančný prínos: 4905 €; 2) Particle, s.r.o., Lučenec; finančný prínos: 1500 €.

LC analýza vzoriek. Odberateľ: 1) Slovak MAK, s.r.o., Leopoldov; finančný prínos: 3500 €; 2) KSZ-Fortis, spol. s r.o., Dunajská Streda; finančný prínos: 1050 €; Seederium s.r.o., Dunajská Streda; finančný prínos: 630 €.

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 315 €.

Stanovenie elementárneho zloženia (CHN), NMR, MS analýza vzoriek. Odberateľ: Ústav polymérov SAV, Bratislava; finančný prínos: 2628 €.

## 8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie

### 8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Ing. Slavomír Bystrický, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Peter Gemeiner, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Miloš Hricovíni, PhD.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen
Ing. Zdenka Hromádková, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolání III"	člen
RNDr. Jaroslav Klaudiny, PhD.	Komisia pre biologickú bezpečnosť a jej zbor expertov pri Ministerstve životného	člen zboru expertov

	prostredia SR	
Ing. Vladimír Mastihuba, PhD.	Atestačná komisia Slovenskej technickej univerzity v Bratislave	člen
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v národnom projekte "Národná sústava povolaní III" pri MPSVR SR	člen
	Sektorová rada pre chémiu a farmáciu v národnom projekte "Národná sústava kvalifikácií" pre Štátny inštitút odborného vzdelávania SR	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Ema Paulovičová, CSc.	Pracovná skupina expertov pre alternatívne metódy (hodnotenie toxicity, účinkov a bezpečnosti látok vo vede, výskume, priemysle a edukácii) pri Ministerstve pôdohospodárstva a rozvoja vidieka SR	člen
doc. Ing. Ladislav Petruš, DrSc.	Porota pre udeľovanie Cien Literárneho fondu za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	člen
Ing. Renáta Vadkertiová, PhD.	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen

## 8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

**Názov expertízy:** Posúdenie rizikovosti práce s CRISP/Cas 9 technikou na myšej bunkovej línii

**Adresát expertízy:** Ministerstvo životného prostredia SR, odbor environmentálnych rizík a biologickej bezpečnosti

**Spracoval:** RNDr. Jaroslav Klaudiny, PhD.

## 8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
Ing. Miloš Hricovíni, PhD.	Rada Národného centra NMR	člen
Ing. Igor Tvaroška, DrSc.	Rada Národného centra NMR	člen

## 8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

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## 9. Vedecko-organizačné a popularizačné aktivity

### 9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	11	tlač	7	TV	2
rozhlás	4	internet	19	exkurzie	2
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	1				

### 9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
46. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	07.05.-10.05.2019	85
3. Konferencia INSTRUCT-ULTRA o štruktúre biomolekúl	medzinárodná	Bratislava, Slovensko	14.11.-15.11.2019	44

### 9.3. Účasť na výstavách

Názov výstavy: AGROKOMPLEX 2019: 46. medzinárodná poľnohospodárska a potravinárska výstava

Miesto konania: Agrokomplex Nitra

Dátum: 22.8.2019

Zhodnotenie účasti: Ústav prezentoval (RNDr. Ján Kozák, PhD.) kolekciu tzv. vzácných sacharidov (nevyskytujúce sa v prírode), ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta. V tejto súvislosti sa nadväzovali kontakty za účelom získania nových komerčných partnerov. Prezentované boli aj aktivity a ponúkané služby Zbierky kultúr kvasiniek a výskumná činnosť Chemického ústavu SAV.

Názov výstavy: Festival vedy - 13. ročník Európskej noci výskumníkov na Slovensku

Miesto konania: Stará tržnica, Bratislava

Dátum: 27.9.2019

Zhodnotenie účasti: Názov vedeckého stánku: Cukry v diagnostike ochorení. Prezentujúci: RNDr. Veronika Gajdošová, RNDr. Lenka Lorencová, PhD., Ing. Anna Blšáková, Ing. Lucia Pažitná, Ing. Filip Květoň, MSc. Juvissan Aguedo, MSc. Paras Kundalia a Ing. Tomáš Krajčovič, PhD. Sacharidy spolu s proteínmi, nukleovými kyselinami a tukmi patria k základným skupinám biomolekúl, pričom ich správne porozumenie napomáha pri diagnostike rôznych ochorení. Návštevníci sa dozvedeli o možnostiach detekcie a využitia biosenzorov pri včasnej diagnostike ochorení, o praktickom využití biosenzorov vo výskume biomarkerov a ich význame v praxi. Prezentované boli aj praktické pokusy - izolácia DNA z jahody a príprava kapsúl. Návštevníci si mohli taktiež pozrieť rôzne preparáty pod mikroskopom a prezentované boli aj ďalšie techniky využívané v chemických laboratóriách.

#### 9.4. Účast' v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Farkaš Pavol	0	1	0
Katrlík Jaroslav	1	0	0
Mastihuba Vladimír	1	0	0
Tkáč Ján	1	0	0
<b>Spolu</b>	3	1	0

#### 9.5. Členstvo v redakčných radách časopisov

RNDr. Marek Baráth, PhD.

Chemical Papers (funkcia: Associate Editor)

Mgr. Peter Baráth, PhD.

Newslab (funkcia: člen)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

Ing. Peter Gemeiner, DrSc.

Artificial Cells, Blood Substitutes, and Biotechnology (funkcia: člen Editorial Board)

Biotechnology and Applied Biochemistry (funkcia: člen Editorial Board)

Biotechnology Letters (funkcia: člen Editorial Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Hirsch, DrSc.

Chemical Papers (funkcia: Editorial Manager)

Ing. Zdenka Hromádková, PhD.

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Koóš, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Molecules (funkcia: člen Editorial Board)

Mgr. Stanislav Kozmon, PhD.

Chemical Papers (funkcia: Associate Editor)

RNDr. Desana Lišková, PhD.

South African Journal of Botany (funkcia: člen Editorial Board)

prof. RNDr. Alexander Lux, CSc.

Plant Root (funkcia: Editor)

Ing. Jozef Nahálka, PhD.

Journal of Glycomics & Lipidomics (funkcia: člen Editorial Board)

doc. Ing. Ladislav Petruš, DrSc.

ARKIVOC (funkcia: člen Editorial Board of Referees)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Tkáč, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Igor Tvaroška, DrSc.

Frontiers in Plant Science: Plant Biophysics and Modeling (funkcia: Review Editor)

## **9.6. Činnosť v domácich vedeckých spoločnostiach**

RNDr. Marek Baráth, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Maroš Bella, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Biely, DrSc.

Slovenská akademická spoločnosť (funkcia: člen)

Slovenský národný komitét pre biochémiu a molekulárnu biológiu (funkcia: člen)

Ing. Pavol Farkaš, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Veronika Gajdošová

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)

Ing. Ján Hirsch, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: predseda odbornej skupiny)

Ing. Miloš Hricovíni, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Zuzana Hricovíniová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Andrej Chyba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Jana Jakubčinová

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Karnišová Potocká, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: podpredseda a tajomník Fyziologickej sekcie)

Ing. Miroslav Koóš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján Kozák, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Stanislav Kozmon, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)



RNDr. Desana Lišková, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Lenka Lorencová, PhD.

Slovenská elektrochemická spoločnosť (funkcia: člen)

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen Predsedníctva)

Ing. Mária Mastihubová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: podpredseda Odbornej skupiny Organická chémia)

RNDr. Mária Matulová, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Ema Paulovičová, CSc.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Slovenská spoločnosť alergológie a klinickej imunológie pri SLS (funkcia: člen)

Ing. Lucia Paulovičová, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

doc. Ing. Ladislav Petruš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Vlasta Sasinková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Ján Tkáč, DrSc.

Slovenská elektrochemická spoločnosť (funkcia: člen)

Ing. Jozef Turjan

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Iveta Uhliariková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Zuzana Vivodová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Mária Zajičková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

## 9.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

V rámci Týždňa vedy a techniky na Slovensku 2019 (TVT 2019), Chemický ústav SAV usporiadal (organizátor: Dr. Blahutová) Deň otvorených dverí CHÚ SAV (5.11.2019), počas ktorého viacerí pracovníci formou prednášok (Bertók, Horváthová, Klaudíny, Pätoprstý) popularizovali svoju vedecko-výskumnú činnosť. Návštevníci mali tiež možnosť prezrieť si vybrané laboratóriá ústavu, kde boli pripravené aj špeciálne popularizačné chemické pokusy (Ing. Květoň, Ing. Blšáková, Ing. Pažitná) a prezentácie (Dr. Dudášová, Dr. Híreš, Dr. Hricovíni st., Dr. Jáné, Dr. Kollárová, Dr. Kučerová, Mgr. Labancová, Dr. Mastihuba, Dr. Sládek, RNDr. Uhliariková). Tento rok sa dňa otvorených dverí zúčastnilo 118 návštevníkov.

Dr. P. Farkaš, Bc. Alföldyová, Dr. L. Paulovičová a Dr. Valáriková zabezpečovali 3. ročník exkurzie a workshop žiakov Základnej školy Pavla Marceľho v Bratislave na CHÚ SAV. V rámci úvodnej prednášky, prezentovanej interaktívnou formou, žiaci piateho až ôsmeho ročníka (počas troch dní sa vystriedalo 45 žiakov) odpovedali na otázku, ako vyzerá všedný deň vedca. Počas návštevy laboratórií si vyskúšali overovanie pravdivosti chemických reakcií, skúmali jeden druh newtonovskej kvapaliny, dozvedeli sa o testovaní látok ako možných zložiek vakcín a pozorovali detekciu infekcie v tkanive použitím fluorescenčnej mikroskopie. Nakoniec si vyskúšali očkovanie kvasiniek na tuhé pôdy. Táto aktivita sa konala v rámci projektu občianskeho združenia All4Science "Nájdí v sebe vedca III".

Pracovníci ústavu pokračovali v práci s talentovanými študentmi stredných škôl (Dr. Lorencová - vedenie študentky pri vypracovaní práce SOČ; Dr. Bertók a Dr. Lorencová - konzultanti príspevku študentky na AMAVET 2019) a základných škôl (Dr. Paulovičová E. - vedenie študenta pri vypracovaní laboratórnej práce).

Dr. Mastihuba organizačne zabezpečoval pravidelný (6-krát ročne) cyklus vedecko-popularizačných prednášok "Chemické Horizonty" v rámci aktivít Slovenskej chemickej spoločnosti pri SAV.

## 10. Činnosť knižnično-informačného pracoviska

### 10.1. Knižničný fond

Tabuľka 10a Knižničný fond

<b>Knižničné jednotky spolu</b>		25397
z toho	knihy a zviazané periodiká	25397
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		4
z toho zahraničné periodiká		3
Ročný prírastok knižničných jednotiek		2
v tom	kúpou	2
	darom	0
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		0

Výraz „v tom“ označuje úplné údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku. Výraz „z toho“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

### 10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

<b>Výpožičky spolu (riadok 1)</b>		15
v tom z r. 1	prezenčné výpožičky	10
	absenčné výpožičky	5
v tom z r. 1	odborná literatúra pre dospelých	6
	výpožičky periodík	9
MVS iným knižniciam		3
MVS z iných knižníc		1
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

**10.3. Používatelia**

Tabuľka 10c Používatelia

Registrovaní používatelia	0
Návštevníci knižnice spolu (bez návštevníkov podujatí)	neeviduje sa

**10.4. Iné údaje**

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete ( 1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	290

**10.5. Iné informácie o knižničnej činnosti**

Pracovníčky knižnice (dve, od augusta len jedna) zabezpečovali okrem iného rozmnožovacie práce na kopírke, rešerše z literatúry a do systému ARL vkladali publikačné výstupy a citačné ohlasy pracoviska.

**11. Aktivity v orgánoch SAV****11.1. Členstvo vo Výbore Snemu SAV**

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**11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV**

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**11.3. Členstvo vo vedeckých kolégiách SAV**

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (predseda)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klauďiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Koóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

#### **11.4. Členstvo v komisiách SAV**

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Koóš, DrSc.

- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)
- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)
- Kontrolná rada areálu SAV (člen)

Mgr. Stanislav Kozmon, PhD.

- Rada SAV pre program Otvorená akadémia (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Komisia SAV pre životné prostredie (podpredsa)

Ing. Ján Tkáč, DrSc.

- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)

#### **11.5. Členstvo v orgánoch VEGA**

Mgr. Peter Capek, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

Ing. Ján Hirsch, DrSc.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

## 12. Hospodárenie organizácie

### 12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie: <i>PO</i>		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
<b>1. Bežné výdavky</b>	3803268	2785855	562918	454495	73,40
z toho: mzdy (610)	1811861	1619670	87942	104249	89,39
vedecká výchova štipendiá (640)	148769	148769	0	0	100
poistné a príspevok do poisťovní (620)	647452	552651	35130	59671	85,36
tovary a služby (630)	1033022	464765	350808	217449	44,99
transfery partnerom projektov (640)	162163	0	89038	73125	0
<b>2. Kapitálové výdavky</b>	133988	6000	100015	27973	4,47
z toho: obstarávanie kapitálových aktív	123723	6000	89750	27973	4,85
kapitálové transfery	10265	0	10265	0	0

### 12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (RO,PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
<b>1. kapitola SAV (111)</b>	27918855	6000	1619670	552651	0
z toho: VEGA	208326	0	0	0	0
MVTS výskumné projekty	41770	6000	0	0	0
MVTS podpora	30692	0	0	0	0
SASPRO/MOREPRO	6179	0	0	0	0
Vydávanie časopisov	29226	0	0	0	0
Vedecská výchova (štipendiá)	148769	0	0	0	0
OTAS (630)	154571	0	0	0	0
<b>2. ŠF EÚ vr. fin. zo ŠR</b>	0	0	0	0	0

<b>3. medzinárodné grantové projekty</b>	266776	16533	66869	31851	62000
z toho H2020	191888	0	48179	20774	62000
<b>4. iné štátne a verejné zdroje (spolu)</b>	662934	89750	87942	35130	99303
z toho: APVV	419705	0	87942	33988	79547
podpora z kapitoly MŠVVaŠ SR (stimuly)	0	0	0	0	0
<b>5. ostatné zdroje</b>	215692	11440	37380	33988	0
z toho: príjmy z prenájmu	0	0	0	0	0
príjmy z podnikateľskej činnosti	0	0	0	0	0
príjmy z expertnej činnosti a služieb	215692	11440	37380	33988	0

### 13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2019 žiadnu nadáciu ani fondy.

### 14. Iné významné činnosti organizácie SAV

Organickou súčasťou ústavu je Zbierka kultúr kvasiniek (Culture Collection of Yeasts), ktorá je členom Organizácie európskych zbierok (ECCO), Svetovej federácie zbierok mikroorganizmov (WFCC), je registrovaná vo Svetovom katalógu kultúr (CCY 333) a má štatút medzinárodného ukladacieho centra patentovo chránených kmeňov (je v nej uložených asi 3500 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 350 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2019: 39 (6 pre CHÚ SAV, 15 pre iné organizácie a 18 pre zahraničie). Získané kultúry v roku 2019: 77 (60 samostatne izolovaných a 17 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 650 € a úspora predstavovala 2490 € (180 € za kmene pre CHÚ, 1800 € za izolované kmene a 510 € za získané kmene zo zahraničia a iných pracovísk).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers* - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS). Impakt faktor časopisu sa od roku 2013 pohyboval nad hodnotou 1 (IF2013 = 1.193; IF2014 = 1.468; IF2015 = 1.326; IF2016 = 1.258). V roku 2017 mierne poklesol (IF2017 = 0.973) v dôsledku predchádzajúcej zmeny vydavateľa. V roku 2018 však opätovne vzrástol (IF2018 = 1.246) a je predpoklad, že hodnota IF2019 bude vyššia ako 1.5. Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav SAV. V období 2007-2014 bolo publikovanie tlačenej aj elektronickej verzie časopisu v kompetencii vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). V období rokov 2015-2016 bol vydavateľom a distribútorom De Gruyter Open Ltd. Od roku 2017 je vydavateľom a distribútorom Springer-Verlag GmbH, pričom

Copyright a Ownership patrí Chemickému ústavu SAV. Od roku 2012 vychádza 12 čísiel ročne (predtým 6 čísiel).

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment vzácnych sacharidov. Tieto dodáva na zahraničný trh, niektoré ako jediný producent na svete. Ústav je v priamom styku s viacerými poprednými svetovými firmami a prostredníctvom obchodných partnerov má kontakty s najvýznamnejšími dodávateľmi čistých chemikálií. Celkové tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2019 sumu 199800 €.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletne analytické a štrukturálne charakterizácie produktov a študovaných látok iným pracoviskám. Príjmy zo služieb ústavom SAV, katedrám a ústavom vysokých škôl, rezortným a súkromným výskumným a výrobným organizáciám predstavovali 19218 €. Príjmy za rozbor vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely (analyzovaných bolo 67 vzoriek), predstavovali sumu 2925 € pre mimoakademických zákazníkov a prínos pre pracovníkov ústavu vo výške 3038 €.

## 15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2019

### 15.1. Domáce ocenenia

#### 15.1.1. Ocenenia SAV

##### **Hirsch Ján**

Významná osobnosť SAV

*Oceňovateľ: Predsedníctvo SAV*

*Opis: Za prínos ku kreditu SAV.*

##### **Kvetoň Filip**

Diplom: Absolútny víťaz – ročník 2019

*Oceňovateľ: Otvorená akadémia SAV, Mladí vedci SAV*

*Opis: Za dosiahnutie mimoriadneho úspechu pri svojej prezentácii: "Ako vie cukor zachraňovať životy a odhaľovať veľké ochorenia?" na Science Slam SAV: Vedci k veci.*

##### **Tkáč Ján**

Cena SAV

*Oceňovateľ: Vedecká rada SAV*

*Opis: Kolektívu pod vedením Ing. Jána Tkáča, DrSc. v zložení: Ing. Alica Vikartovská, PhD., Mgr. Jana Blahutová, PhD., Ing. Tomáš Bertók, PhD., RNDr. Lenka Lorencová, PhD., RNDr. Alena Holazová, PhD., Ing. Michal Híreš, PhD., RNDr. Eduard Jáné, PhD., Mgr. Erika Chocholová, Ing. Filip Kvetoň, Ing. Anna Blšáková, Ing. Štefánia Hrončeková a Mgr. Veronika Gajdošová za vedeckovýskumnú prácu, inovatívne bioanalytické metódy pre medicínsku diagnostiku vybraných ochorení, založené na analýze glykánov a využití nanotechnológií.*

##### **Tvaroška Igor**

Významná osobnosť SAV

*Oceňovateľ: Predsedníctvo SAV*

*Opis: Za prínos ku kreditu SAV.*



### 15.1.2. Iné domáce ocenenia

#### **Blšáková Anna**

Diplom pri príležitosti XI. Interaktívnej konferencie mladých vedcov 2019

*Oceňovateľ: Občianske združenie PREVEDA*

*Opis: Za vynikajúci príspevok v sekcii Využitie inštrumentálnych metód v analýze biologicky významných látok.*

#### **Hakarová Marietta**

Diplom pri príležitosti XI. Interaktívnej konferencie mladých vedcov 2019

*Oceňovateľ: Občianske združenie PREVEDA*

*Opis: Za vynikajúci príspevok v sekcii Biotechnológie a potravinárske technológie.*

#### **Hrončeková Štefánia**

Cena Ernesta Šturdíka

*Oceňovateľ: Slovenská spoločnosť pre biochémiu a molekulárnu biológiu*

*Opis: Za najlepšiu prácu v oblasti biotechnológie (Drobnicov memoriál 10. ročník).*

#### **Chocholová Erika**

Študentská osobnosť Slovenska za akademický rok 2018/2019

*Oceňovateľ: Junior Chamber International – Slovakia (JCI)*

*Opis: Víťazka v kategórii "Prírodné vedy, chémia" za akademický rok 2018/2019.*

#### **Chocholová Erika**

Top študentská osobnosť Slovenska za akademický rok 2018/2019

*Oceňovateľ: Junior Chamber International – Slovakia (JCI)*

*Opis: Absolútna víťazka za akademický rok 2018/2019.*

#### **Kvetoň Filip**

Cena Shimadzu 2019

*Oceňovateľ: Shimadzu Slovakia*

*Opis: Za prácu "Elektrochemická detekcia tumor-asociovej protilátky 2C4 pomocou glykánového biosenzora".*

#### **Lorencová Lenka**

Cena dekana Prírodovedeckej fakulty Univerzity Pavla Jozefa Šafárika v Košiciach

*Oceňovateľ: Dekan Prírodovedeckej fakulty Univerzity Pavla Jozefa Šafárika v Košiciach*

*Opis: Za najoriginálnejší príspevok doktorandov a mladých vedeckých pracovníkov na 71. zjazde chemikov.*

#### **Lux Alexander**

Pamätná medaila pri príležitosti 100. výročia založenia UK v Bratislave

*Oceňovateľ: rektor Univerzity Komenského v Bratislave*

*Opis: Za prínos, ktorý dosiahol ako vedúci špičkového vedeckého tímu.*

#### **Tkáč Ján**

ESET Science Award, laureát kategórie Výnimočná osobnosť slovenskej vedy za rok 2019

*Oceňovateľ: Nadácia ESET*

*Opis: Za výskum včasnej diagnostiky rakoviny prostaty. Laureáta vyberala medzinárodná komisia na základe náročného hodnotiaceho procesu.*

## 15.2. Medzinárodné ocenenia

**Bertók Tomáš**

Diplom  $\Omega$ Metrohm

*Oceňovateľ: Společnost Metrohm Česká republika s.r.o.*

*Opis: Za najlepšiu publikáciu mladého elektroanalytického chemika (do 35 rokov).*

## 16. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

Informácie o pracovisku sú voľne dostupné na internete ([www.chem.sk](http://www.chem.sk)) ako aj z knižných brožúr vydaných za roky 1953-1993, 1993-1997 a 1998-2002. Začiatkom roka 2015 bola vydaná brožúra k 60. výročiu založenia ústavu, ktorá obsahuje niektoré údaje o pracovisku až do roku 2013. Pripravuje sa aktualizovaná brožúra, ktorá bude obsahovať údaje za ďalšie 5-ročné obdobie.

## 17. Problémy a podnety pre činnosť SAV

### a) Zabezpečovanie a prideľovanie finančných prostriedkov zo ŠR

Podľa dostupných informácií sa na ďalšom financovaní prístupu do vedeckých databáz majú okrem CVTI SR podieľať aj univerzity, vysoké školy a SAV. Apelujeme na P SAV, aby situáciu ohľadne zabezpečenia financovania prístupu do databáz považovalo za jednu z priorit a nedopustilo, aby v budúcnosti došlo k prerušeniu prístupu do nich. Nedávne zrušenie prístupu do databázy Reaxys výrazne obmedzuje včasné získavanie relevantných informácií najmä početnej skupine organických chemikov, ale aj biochemikov a biotechnológov.

Apelujeme na P SAV, aby neznížovalo príspevok na vydávanie kvalitných vedeckých časopisov (periodík).

Oceňujeme rozhodnutie P SAV, že v r. 2019 neznížilo finančné prostriedky na granty akademickej agentúry VEGA a že sa podieľalo na stabilizácii financovania projektov Verejnej výzvy APVV.

### b) Iné problémy pracoviska

Napriek tomu, že sa výrazne zmodernizovala prístrojová technika v Analytickom oddelení, ktoré bolo vďaka finančným prostriedkom (cca 17 mil. €) z troch implementovaných projektov OP ŠF, v ktorých bol ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiež došlo k zlepšeniu situácie aj v prístrojovom vybavení jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participoval ako partner), nedostatok kapitálových finančných prostriedkov z iných zdrojov neumožnil v roku 2019 výraznejšiu obnovu prístrojového vybavenia v Realizačnom oddelení a v Zbierke kultúr kvasiniek. Zbierka nevyhnutne potrebuje obnoviť a dokúpiť základné prístrojové vybavenie, zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie (väčšina pochádza z roku 1963) a uzatvoriť priestory, v ktorých sa Zbierka nachádza, aby mohla splniť štandard, ktoré pre zbierky mikroorganizmov vyžaduje OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO). Najvyššiu prioritu má zakúpenie autoklávov, nakoľko doteraz používané autoklávy (zakúpené v roku 1986), sú poruchové a je už veľký problém zohnať na ne náhradné súčiastky. Finančné zdroje by sa dali získať vstupom Slovenska do konzorcia MIRRI-ERIC (v rámci ESFRI Roadmap) a taktiež úspešnosťou v ďalších výzvach OP ŠFEÚ.

### c) *Iné podnety a informácie*

Apelujeme na P SAV, aby sa pre SAV pokúsilo vybaviť výnimku zo zákona o verejnom obstarávaní, ktorý pracoviskám SAV aj naďalej spôsobuje značné komplikácie.

Opätovne upozorňujeme na niektoré nedostatky v Osnove Správy o činnosti organizácie: a) v záhlaví tabuľky 3h "Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium" treba slovo "spoločných" vynechať alebo nahradiť slovom "univerzitných", pretože spoločné odborové komisie ukončili svoju činnosť už v roku 2010 a od roku 2011 existujú len odborové komisie pre doktorandské štúdium, ktoré sú zriaďované osobitne pre každú univerzitu, na ktorej bol príslušný odbor doktorandského štúdia akreditovaný; b) zosúladiť, resp. rozlišovať (regionalita versus účasť) používanie výrazov "zahraničný" a "medzinárodný" (napr. pri vedeckých konferenciách); c) z tabuľky 1d nie je jasné, či sa jedná o priemerný vek zamestnancov bez zohľadnenia úväzkov zamestnancov alebo o priemerný vek so zohľadnením úväzkov zamestnancov - požadujeme, aby sa do Osnovy namiesto tejto tabuľky aplikovala tabuľka z Osnovy pre Správu o činnosti za rok 2018, kde sa uvedené špecifikácie zohľadňovali (formou kolóniek A a B); d) chybné číslovanie niektorých podkapitol a tabuliek (namiesto 3.6. a 3.7. má byť 3.8. a 3.9. a namiesto 3g a 3h má byť 3i a 3j. Apelujeme na P SAV, aby zmeny v Osnove Správy o činnosti organizácie schvaľovalo už začiatkom roka, aby Výpočtové stredisko CSC SAV malo dostatok času príslušné zmeny zapracovať do databázy ELVYS, pretože zmeny vykonávané v Osnove (a v databáze ELVYS) až koncom roka značne komplikujú vypracovanie Správy o činnosti organizácie. Je potrebné si uvedomiť, že pracoviská vkladajú údaje do databázy ELVYS v priebehu celého roka (nie iba na konci roka) a neskoršie zmeny v Osnove majú za následok, že niektoré údaje vložené do databázy ELVYS skôr ako došlo k úpravám Osnovy musia byť v nej následne upravované alebo do nej práce nanovo vkladané.

Oceňujeme, že vzhľadom k havarijnému stavu zdravotníckych (vodoinštalácia, kanalizácia, vzduchotechnika) v celej budove, P SAV vyčlenilo finančné prostriedky na jej komplexnú rekonštrukciu, s ktorou sa už začalo (dokončila sa rekonštrukcia rozvodov vody v celej budove a začali sa práce na rekonštrukcii kanalizácie v bloku A a C a na vonkajšom kanalizačnom páse pred budovou) a bude pokračovať v roku 2020 (dokončenie rekonštrukcie kanalizácie).

V roku 2019 ústav zrealizoval kompletnú rekonštrukciu počítačovej siete, pričom použil financie z vlastných zdrojov.

**Správu o činnosti organizácie SAV spracoval(i):**

Ing. Miroslav Kooš, DrSc., 02/ 59410254, 02/ 59410200  
Ol'ga Švančarová (ekonomická časť), 02/ 59410208

**Riaditeľ organizácie SAV**

**Predseda vedeckej rady**

.....  
Ing. Miroslav Kooš, DrSc.

.....  
Ing. Vladimír Mastihuba, PhD.

**Prílohy****Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2019****Zoznam zamestnancov podľa štruktúry**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
<b>Vedúci vedeckí pracovníci DrSc.</b>			
1.	RNDr. Peter Biely, DrSc.	5	0.05
2.	Ing. Slavomír Bystrický, DrSc.	5	0.05
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	5	0.05
5.	Ing. Ján Hirsch, DrSc.	5	0.05
6.	Ing. Miroslav Kooš, DrSc.	100	1.00
7.	RNDr. Mária Matulová, DrSc.	100	1.00
8.	doc. Ing. Ladislav Petruš, DrSc.	60	0.60
9.	Ing. Ivan Šimkovic, DrSc.	70	0.70
10.	Ing. Ján Tkáč, DrSc.	150	1.50
11.	Ing. Igor Tvaroška, DrSc.	5	0.05
<b>Vedúci vedeckí pracovníci CSc., PhD.</b>			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
<b>Samostatní vedeckí pracovníci</b>			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Mgr. Peter Baráth, PhD.	100	1.00
3.	Ing. Maroš Bella, PhD.	100	1.00
4.	Ing. Tomáš Bertók, PhD.	150	1.50
5.	Mgr. Jana Blahutová, PhD.	100	1.00
6.	Ing. Marek Bučko, PhD.	100	1.00
7.	Mgr. Peter Capek, PhD.	50	0.50
8.	Ing. Alžbeta Čížová, PhD.	100	1.00
9.	Ing. Pavol Farkaš, PhD.	100	1.00
10.	RNDr. Alena Holazová, PhD.	100	0.00
11.	Ing. Eva Hrabárová, PhD.	100	1.00
12.	Ing. Miloš Hricovíni, PhD.	100	1.00
13.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
14.	Ing. Zdenka Hromádková, PhD.	100	1.00

15.	Ing. Jaroslav Katrlík, PhD.	115	1.15
16.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
17.	RNDr. Karin Kollárová, PhD.	100	1.00
18.	Mgr. Juraj Kóňa, PhD.	100	1.00
19.	Ing. Zuzana Košťálová, PhD.	100	1.00
20.	Mgr. Stanislav Kozmon, PhD.	100	1.00
21.	Ing. Ľubomír Kremnický, PhD.	100	0.67
22.	RNDr. Desana Lišková, PhD.	20	0.20
23.	RNDr. Lenka Lorencová, PhD.	150	1.50
24.	prof. RNDr. Alexander Lux, CSc.	5	0.05
25.	Ing. Vladimír Mastihuba, PhD.	100	1.00
26.	Ing. Mária Mastihubová, PhD.	100	1.00
27.	Ing. Júlia Mičová, PhD.	100	1.00
28.	RNDr. Ján Mucha, CSc.	80	0.80
29.	Ing. Jozef Nahálka, PhD.	100	1.00
30.	Ing. Marek Nemčovič, PhD.	100	1.00
31.	Ing. Ema Paulovičová, CSc.	100	1.00
32.	Ing. Lucia Paulovičová, PhD.	100	1.00
33.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
34.	Ing. Monika Poláková, PhD.	100	1.00
35.	Mgr. Vladimír Puchart, PhD.	100	1.00
36.	Ing. Hana Schusterová, PhD.	100	1.00
37.	Ing. Vladimír Sládek, PhD.	100	1.00
38.	Ing. Eva Stratilová, PhD.	100	1.00
39.	Ing. Sergej Šesták, PhD.	100	1.00
40.	Ing. Katarína Šuchová, PhD.	100	1.00
41.	Ing. Renáta Vadkertiová, PhD.	100	1.00
42.	Ing. Alica Vikartovská, PhD.	100	1.00
43.	Mgr. Zuzana Vivodová, PhD.	100	0.39
<b>Vedeckí pracovníci</b>			
1.	RNDr. Jana Bellová, PhD.	100	1.00
2.	RNDr. Anikó Bertóková, PhD.	100	0.17
3.	RNDr. Sandra Bieliková, PhD.	100	0.08
4.	RNDr. Lucia Demovičová, PhD.	100	0.00
5.	Ing. Soňa Garajová, PhD.	100	0.00

6.	Ing. Michal Híreš, PhD.	100	1.00
7.	Ing. Michal Hricovíni, PhD.	100	1.00
8.	Ing. Andrej Chyba, PhD.	100	1.00
9.	RNDr. Eduard Jáné, PhD.	100	1.00
10.	Mgr. Elena Karnišová Potocká, PhD.	100	1.00
11.	Ing. Peter Kis, PhD.	100	1.00
12.	Mgr. Tomáš Klunda, PhD.	100	0.58
13.	Mgr. Lenka Kohútová, PhD.	100	0.00
14.	RNDr. Ján Kozák, PhD.	100	1.00
15.	Ing. Tomáš Krajčovič, PhD.	100	1.00
16.	Mgr. Martina Križáková, PhD.	100	0.00
17.	Mgr. Danica Kučerová, PhD.	80	0.73
18.	Ing. Zuzana Pakanová, PhD.	100	0.92
19.	RNDr. Klaudia Palenčárová, PhD.	100	0.00
20.	MVDr. Jana Pipiková, PhD.	100	0.83
21.	Ing. Božena Pribulová, PhD.	100	1.00
22.	Ing. Andrea Schenk Mayerová, PhD.	100	0.00
23.	Mgr. Mária Šedivá, PhD.	100	1.00
24.	Ing. Kristína Vadinová, PhD.	100	0.00
25.	Mgr. Jana Valáriková, PhD.	100	1.00
26.	RNDr. Jana Ziburová, PhD.	100	1.00
<b>Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)</b>			
1.	MSc. Juvissan Medalith Aguedo Ariza	100	0.33
2.	Ing. Viera Bedrichová	100	1.00
3.	Ing. Katarína Čangelová	100	0.50
4.	Mgr. Viera Dujnič	100	0.20
5.	Ing. Erika Farkašová	100	1.00
6.	Mgr. Ágnes Horváthová	20	0.10
7.	Mgr. Ľuboš Hudák	100	0.17
8.	Ing. Mária Kopáčová	100	1.00
9.	Ing. Hana Kováčová	100	1.00
10.	MSc. Paras Harendra Kundalia	100	0.33
11.	Ing. Filip Květoň	10	0.10
12.	Mgr. Maroš Laho	80	0.27
13.	Ing. Peter Magdolen	100	1.00

14.	Ing. Filip Pančík	50	0.83
15.	Ing. Justyna Płoska	100	0.25
16.	RNDr. Vlasta Sasinková	40	0.40
17.	Mgr. Barbara Siváková	20	0.10
18.	Mgr. Barbora Stratilová	20	0.10
19.	Ing. Jozef Švec	100	1.00
20.	Ing. Jozef Turjan	100	1.00
21.	RNDr. Iveta Uhliariková	100	1.00
<b>Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)</b>			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Bc. Ondrej Penzeš	60	0.77
3.	Ing. Ema Podobová	100	1.00
4.	Bc. Jaroslav Valášik	100	0.17
5.	Mgr. Jana Žabková	100	1.00
<b>Odborní pracovníci ÚSV</b>			
1.	Mária Bednáriková	100	1.00
2.	Veronika Bencová	100	1.00
3.	Alena Bordáčová	100	1.00
4.	Eva Filipková	100	1.00
5.	Ľudmila Gažíková	100	1.00
6.	Dominik Gúth	100	0.17
7.	Jana Guthová	100	1.00
8.	Beáta Chvállová	100	1.00
9.	Beáta Kalivodová	100	1.00
10.	Alžbeta Kanská	100	1.00
11.	Janka Komačková	100	1.00
12.	Ľudovít Kompaník	100	1.00
13.	Eva Morháčová	100	1.00
14.	Milan Novosad	100	1.00
15.	Nadežda Orthová	100	1.00
16.	Margita Plšková	20	0.20
17.	Emília Rosová	100	0.50
18.	Kvetoslava Sabová	100	1.00
19.	Zdena Smolková	100	1.00
20.	Radoslava Šályová	130	1.30



21.	Alena Šoltésová	100	1.00
22.	Oľga Švančarová	100	1.00
23.	Vojtech Tóth	100	1.00
24.	Matej Vaš	100	1.00
25.	Mariana Vlčeková	100	1.00
26.	Erika Voleková	100	1.00
27.	Scarlett Weinzettlová	100	1.00
28.	Dana Žiškova	100	1.00
<b>Ostatní pracovníci</b>			
1.	Ladislav Baláži	100	1.00
2.	Peter Cagán	100	1.00
3.	Anna Fehérová	100	0.92
4.	Dušan Križan	100	1.00
5.	Helena Lešťanská	100	1.00
6.	Elena Masarovičová	100	1.00
7.	Miroslav Pír	100	1.00
8.	Ing. Viliam Podoba	100	0.75
9.	František Špetko	100	1.00
10.	Veronika Voleková	100	1.00

**Zoznam zamestnancov, ktorí odišli v priebehu roka**

	<b>Meno s titulmi</b>	<b>Dátum odchodu</b>	<b>Ročný prepočítaný úväzok</b>
<b>Vedeckí pracovníci</b>			
1.	Mgr. Ružena Pilišiová, PhD.	14.5.2019	0.10
<b>Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)</b>			
1.	PhDr. Eva Riganová	31.7.2019	0.58
<b>Odborní pracovníci ÚSV</b>			
1.	Helena Čigašová	30.6.2019	0.50

**Zoznam doktorandov**

	<b>Meno s titulmi</b>	<b>Škola/fakulta</b>	<b>Študijný odbor</b>
<b>Interní doktorandi hradení z prostriedkov SAV</b>			
1.	Mgr. Martina Belková	Prírodovedecká fakulta UK	4.1.22 biochémia
2.	Ing. Anna Blšáková	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
3.	Mgr. Veronika Gajdošová	Prírodovedecká fakulta UK	5.2.25 biotechnológie

4.	Mgr. Marietta Hakarová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
5.	Ing. Peter Haluz	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
6.	Mgr. Ágnes Horváthová	Prírodovedecká fakulta UK	4.1.22 biochémia
7.	Ing. Štefánia Hrončeková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
8.	Mgr. Erika Chocholová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
9.	Mgr. Jana Jakubčinová	Prírodovedecká fakulta UK	4.1.16 organická chémia
10.	Ing. Martin Kalník	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
11.	Ing. Kristína Kianičková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
12.	Ing. Romana Kőszagová	Prírodovedecká fakulta UK	4.1.22 biochémia
13.	Mgr. Dominika Kubalová	Prírodovedecká fakulta UK	4.1.22 biochémia
14.	Ing. Filip Květoň	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
15.	Ing. Filip Pančík	Prírodovedecká fakulta UK	4.1.18 fyzikálna chémia
16.	Ing. Lucia Pažitná	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
17.	Mgr. Barbara Siváková	Prírodovedecká fakulta UK	4.1.22 biochémia
18.	Mgr. Barbora Stratilová	Prírodovedecká fakulta UK	4.1.18 fyzikálna chémia

**Interní doktorandi hradení z iných zdrojov**

1.	MSc. Juvissan Medalith Aguedo Ariza	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
2.	Mgr. Zsófia Csáky	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
3.	Mgr. Viera Dujnič	Prírodovedecká fakulta UK	4.1.16 organická chémia
4.	MSc. Paras Harendra Kundalia	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie

**Externí doktorandi**

1.	RNDr. Iveta Uhliariková	Prírodovedecká fakulta UK	4.1.17 analytická chémia
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**Zoznam zamestnancov prijatých do jedného roka od získania PhD.**

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Ing. Peter Kis, PhD.	27.08.2019	28.08.2019	100

**Zoznam emeritných vedeckých zamestnancov**

Meno s titulmi
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**Príloha B****Projekty riešené v organizácii****Medzinárodné projekty****Programy: Medziústavná dohoda****1.) Izolácia neprístupných štruktúr acetylxylánu a enzýmy ich hydrolýzy** (*Isolation of recalcitrant acetylxylan structures and enzymes of their hydrolysis*)

**Zodpovedný riešiteľ:** Peter Biely  
**Trvanie projektu:** 22.12.2017 / 22.12.2020  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -

**2.) Odozva O-špecifických polysacharidov a cholera** (*O-Specific polysaccharide responses and cholera*)

**Zodpovedný riešiteľ:** Slavomír Bystrický  
**Trvanie projektu:** 4.10.2014 / 31.3.2019  
**Evidenčné číslo projektu:** 5R01AI106878-02  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Massachusetts General Hospital  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** National Institute of Allergy and Infectious Diseases, NIH, USA: 801 €

**3.) Porovnanie výťažkov AcGX z rôznych zdrojov bukového dreva (Fagus sylvatica)** (*Comparison of the yields of AcGX from different beechwood sources (Fagus sylvatica)*)

**Zodpovedný riešiteľ:** Peter Capek  
**Trvanie projektu:** 1.7.2018 / 30.6.2019  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Dr. Gabriele Fontana, Indena S.p.A., Milano, Italy  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -

**Programy: Medzivládna dohoda****4.) Analýza glykoforiem transferínu ako potencionálnych účinných biomarkerov pre medicínu**  
(*Analysis of transferrin glycoforms as potentially strong biomarkers in medicine*)

**Zodpovedný riešiteľ:** Jaroslav Katrlík  
**Trvanie projektu:** 15.2.2019 / 31.12.2020  
**Evidenčné číslo projektu:** SK-SRB-18-0028  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 3 - Srbsko: 3  
**Čerpané financie:** -  
 Podpora medzinárodnej spolupráce z národných zdrojov: 2331 €

**Dosiahnuté výsledky:**

V rámci spolupráce s INEP, Univerzita v Belehrade, Srbsko prebiehal výskum v oblasti glykoprofilovania transferínu a ďalších glykoproteínov ako potencionálnych účinných biomarkerov pre medicínu v súvislosti s niektorými ochoreniami (peritoneálna dialýza, cirhóza, diabetes, kongenitálne poruchy glykozylácie – CDG), s placentálnym vývojom a so starnutím pomocou lektínového microarray a MS techník.

PENEZIĆ, Ana - KRIŽÁKOVÁ, Martina - MILJUŠ, Goran - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Diagnostic potential of transferrin glycoforms—a lectin-based protein microarray approach. In *Proteomics - Clinical Applications*, 2019, vol. 13, art. no. 1800185. (2.324 - IF2018). (kvartil 2018: SJR - Q2; JCR - Q3). (2019 - Current Contents). ISSN 1862-8346. (ADCA)

ROBAJAC, Dragana - MASNIKOSA, Romana - NEMČOVIČ, Marek - KRIŽÁKOVÁ, Martina - BELICKÁ KLUKOVÁ, Ľudmila - BARÁTH, Peter - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Glycoanalysis of the placental membrane glycoproteins throughout placental development. In *Mechanisms of Ageing and Development*, 2019, vol. 183, Article 111151. (3.603 - IF2018). (kvartil 2018: SJR - Q2/Q1; JCR - Q2/Q2). (2019 - Current Contents). ISSN 0047-6374. (ADCA)

ŠUNDERIĆ, Miloš - KRIŽÁKOVÁ, Martina - MALENKOVIĆ, Vesna - ČUJIĆ, Danica - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes due to ageing in the glycan structure of alpha-2-macroglobulin and its reactivity with ligands. In *Protein Journal*, 2019, vol. 38, p. 23-29. (1.029 - IF2018). (kvartil 2018: SJR - Q3/Q3/Q3/Q3; JCR - Q4). (2019 - WOS, Scopus). ISSN 1572-3887. (ADMA)

PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Glycan analysis of serum glycoproteins of patients on peritoneal dialysis by lectin-based microarray. In *ŘÁPKOVÁ, Radmila - FUSEK, Martin - DRAŠAR, Pavel (eds.). XIX. Interdisciplinary Meeting of Young Biologists, Biochemists and Chemists, May 20-23, 2019, Milovy, Czech Republic. In Czech Chemical Society Symposium Series, 2019, ročník 17, číslo 1, s. 29-30. ISSN 2336-7202. (AFG)*

PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Analýza glykánov sérových glykoproteínov u pacientov s peritoneálnou dialýzou lektínovou microarray metódou. In *FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2019: Interaktívna*

konferencia mladých vedcov 2019. Banská Bystrica: Občianske združenie PREVEDA, 6.5.-7.6.2019. Abstrakt č. 1868. ISBN 978-80-972360-4-5. (AFH)

PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Analýza glykánov fibrinogénu, transferínu, alfa-2-makroglobulínu a sér pacientov s peritoneálnou dialýzou pomocou lektínovej microarray metódy. In ChemZi, 2019, roč. 15, č. 1, s. 143-144 (Zborník abstraktov: 71. Zjazd chemikov, 9.-13. september 2019, Vysoké Tatry, Horný Smokovec, Slovensko). Bratislava: Slovenská chemická spoločnosť, 2019. ISSN 1336-7242. (AFH)

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KRIŽÁKOVÁ, Martina, Zámorová - PAKANOVÁ, Zuzana - BARÁTH, Peter - KIM, S. - BYSTRICKÝ, Branislav. Determination of serum proteins glycosylation in cancer before and after the treatment: lectin-based protein microarray and maldi-tof ms approaches. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy). Heidelberg: Springer, 2019, vol. 36, no. 4, p. 330. ISSN 0282-0080. (AFG)

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Screening of protein glycosylation by lectin-based protein microarray. In Abstract Book: Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria. Berlin: M24You GmbH, 2019, p. 33. (AFE)

**5.) Vývoj bioanalytických systémov založených na nových lektínoch so zlepšenou špecificitou pre aplikácie v diagnostike** (*Development of bioanalytical systems based on novel lectins with enhanced specificity for application in diagnostics*)

<b>Zodpovedný riešiteľ:</b>	Jaroslav Katrlík
<b>Trvanie projektu:</b>	1.9.2018 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	SK-KR-18-0004
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Chemický ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	1 - Kórejská republika: 1
<b>Čerpané financie:</b>	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 3471 €

Dosiahnuté výsledky:

V rámci spolupráce s Korea Research Institute of Biotechnology and Biosciences (KRIBB) sa výskum zamerával na oblasť vývoja, produkcie a aplikácie rekombinantných lektínov pre skúmanie glykozylačných zmien na glykoproteínoch v súvislosti s ich aplikáciou v microarray biočipoch pre biomedicínsky výskum a diagnostiku (rakovina, ADHD). Z dosiahnutých výsledkov sa pripravuje spoločná publikácia.

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - BYSTRICKÝ, Branislav. Lectin-based protein microarray: tool for determination of glycosylation changes related to cancer and other diseases. In Proceedings: 8th Global Reverse Phase Protein Array Workshop (RPPA 2019), March 24-25, 2019, Tokyo, Japan. Tokyo: National Cancer Center, 2019, p.74-75. (AFE)

KATRLÍK, Jaroslav - KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras -

KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KOLLÁROVÁ, Dagmar - KIM, Seonghun. Glycoprofiling of sera of children with attention-deficit hyperactivity disorder (ADHD) by lectin-based protein microarray. In Program and Abstract Book: 11th ACGG Conference, November 11-14, 2019, Haeundae Busan, Korea. Busan: Asian Community of Glycoscience and Glycotechnology, 2019, p. 173. (AFG)

## Programy: COST

### 6.) Európska multidisciplinárna platforma pre morskú biotechnológiu (*European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech)*)

**Zodpovedný riešiteľ:** Peter Capek  
**Trvanie projektu:** 29.10.2019 / 28.10.2023  
**Evidenčné číslo projektu:** COST Action CA18238  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** National Institute of Biology  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** EC Brussels (COST): 528 €

#### Dosiahnuté výsledky:

Zástupcovia zúčastnených krajín v projekte sa zišli na prvom pracovnom stretnutí. Prejednal sa program projektu a stanovené boli úlohy, ktoré sa budú riešiť. Vytvorili sa pracovné skupiny a schválené bolo rozdelenie financií na budúci rok.

### 7.) Európska sústava vakcínových adjuvansov (*European network of vaccine adjuvants (ENOVA)*)

**Zodpovedný riešiteľ:** Pavol Farkaš  
**Trvanie projektu:** 13.11.2017 / 12.11.2021  
**Evidenčné číslo projektu:** CA COST Action CA16231  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Vaccine Formulation Institute  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** EC Brussels (COST): 2105 €  
 Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

#### Dosiahnuté výsledky:

Riešitelia z CHÚ SAV sa aktívne zapájajú do využitia adjuvantných látok pri príprave moderných a bezpečných vakcín. Účasť na 3rd ENOVA Adjuvant Workshop v Srbsku (Dr. P. Farkaš) a na Training schools 2019 "Immunoactive carbohydrates and adjuvants: antibacterial vaccines, from research to clinical trial" v Taliansku (Dr. P. Farkaš a Dr. Valáriková).

### 8.) Inovácie s glykánmi: nové horizonty od syntézy po nové biologické ciele (*Innovation with Glycans: new frontiers from synthesis to new biological targets*)

**Zodpovedný riešiteľ:** Miloš Hricovíni  
**Trvanie projektu:** 8.4.2019 / 7.4.2023  
**Evidenčné číslo projektu:** COST Action CA18103  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** University of Milan  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** EC Brussels (COST): 1461 €  
 Podpora medzinárodnej spolupráce z národných zdrojov: 6645 €

Dosiahnuté výsledky:

Účasť na zahajovacom mítingu: First Innogly Symposium, October 23-25, 2019, Santiago de Compostela, Spain.

HRICOVÍNI, Michal - HRICOVÍNI, Miloš. The multifaceted roles of glycosaminoglycans: What we can learn from molecular structures analysed by NMR and DFT. In COST Action CA18103 (INNOGLY) Meeting, October 23-25, 2019, Santiago de Compostela, Spain. (AFK)

**9.) CliniMARK: 'Dobré biomarkerové praktiky' pre zvýšenie počtu klinicky validovaných biomarkerov** (*CliniMARK: 'good biomarker practice' to increase the number of clinically validated biomarkers*)

**Zodpovedný riešiteľ:** Jaroslav Katrlík  
**Trvanie projektu:** 14.3.2017 / 13.3.2021  
**Evidenčné číslo projektu:** CA COST Action CA16113  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Erasmus University Medical Center  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** EC Brussels (COST): 1650 €  
 Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Dosiahnuté výsledky:

Projekt je zameraný na správne praktiky pri analýze biomarkerov, interpretácii výsledkov a aplikácii v medicíne. CHÚ SAV sa zameriava na oblasť sledovania glyko-biomarkerov. Dosiahnuté výsledky boli prezentované na šiestich medzinárodných konferenciách a pripravujú sa 2 spoločné publikácie.

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - BYSTRICKÝ, Branislav. Lectin-based protein microarray: tool for determination of glycosylation changes related to cancer and other diseases. In Proceedings: 8th Global Reverse Phase Protein Array Workshop (RPPA 2019), March 24-25, 2019, Tokyo, Japan. Tokyo: National Cancer Center, 2019, p.74-75. (AFE)

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KRIŽÁKOVÁ, Martina, Zámorová - PAKANOVÁ, Zuzana - BARÁTH, Peter - KIM, S. - BYSTRICKÝ, Branislav. Determination of serum proteins glycosylation in cancer before and after the treatment: lectin-based protein microarray and maldi-tof ms approaches. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy). Heidelberg: Springer, 2019, vol. 36, no. 4, p. 330. ISSN 0282-0080. (AFG)

PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Analýza glykánov fibrinogénu, transferínu, alfa-2-makroglobulínu a sér pacientov s peritoneálnou dialýzou pomocou lektínovej microarray metódy. In ChemZi, 2019, roč. 15, č. 1, s. 143-144 (Zborník abstraktov: 71. Zjazd chemikov, 9.-13. september 2019, Vysoké Tatry, Horný Smokovec, Slovensko). Bratislava: Slovenská chemická spoločnosť, 2019. ISSN 1336-7242. (AFH)

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Screening of protein glycosylation by lectin-based protein microarray. In Abstract Book: Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria. Berlin: M24You GmbH, 2019, p. 33. (AFE)

KATRLÍK, Jaroslav - KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KOLLÁROVÁ, Dagmar - KIM, Seonghun. Glycoprofiling of sera of children with attention-deficit hyperactivity disorder (ADHD) by lectin-based protein microarray. In Program and Abstract Book: 11th ACGG Conference, November 11-14, 2019, Haeundae Busan, Korea. Busan: Asian Community of Glycoscience and Glycotechnology, 2019, p. 173. (AFG)

KATRLÍK, Jaroslav. Lectin-based biosensing for medicine and biotechnology. In Journal of Biotechnology, 2019, vol. 305, Supplement, p. S2. ISSN 0168-1656. (Abstracts: European Biotechnology Congress, April 11-13, 2019, Valencia, Spain). (AFE)

#### 10.) Funkčné glykonanomateriály pre vývoj sond pre diagnostiku a cieleňú terapiu

*(Functional glyconanomaterials for the development of diagnostics and targeted therapeutic probes (GLYCONanoPROBES))*

<b>Zodpovedný riešiteľ:</b>	Jaroslav Katrlík
<b>Trvanie projektu:</b>	14.3.2019 / 13.3.2023
<b>Evidenčné číslo projektu:</b>	COST Action CA18132
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	University of Bristol
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 4113 €

#### Dosiahnuté výsledky:

CHÚ SAV sa do tejto výzvy zapojil v oblasti analýzy biologicky významných glykánov a glykobiomarkerov. Dosiahnuté výsledky boli prezentované v príspevkoch na štyroch medzinárodných konferenciách.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KRIŽÁKOVÁ, Martina, Zámorová - PAKANOVÁ, Zuzana - BARÁTH, Peter - KIM, S. - BYSTRICKÝ, Branislav. Determination of serum proteins glycosylation in cancer before and after the treatment: lectin-based protein microarray and maldi-tof ms approaches. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy). Heidelberg: Springer, 2019, vol. 36, no. 4, p. 330. ISSN 0282-0080. (AFG)



PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Analýza glykánov fibrinogénu, transferínu, alfa-2-makroglobulínu a sér pacientov s peritoneálnou dialýzou pomocou lektínovej microarray metódy. In ChemZi, 2019, roč. 15, č. 1, s. 143-144 (Zborník abstraktov: 71. Zjazd chemikov, 9.-13. september 2019, Vysoké Tatry, Horný Smokovec, Slovensko). Bratislava: Slovenská chemická spoločnosť, 2019. ISSN 1336-7242. (AFH)

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Screening of protein glycosylation by lectin-based protein microarray. In Abstract Book: Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria. Berlin: M24You GmbH, 2019, p. 33. (AFE)

KATRLÍK, Jaroslav - KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KOLLÁROVÁ, Dagmar - KIM, Seonghun. Glycoprofiling of sera of children with attention-deficit hyperactivity disorder (ADHD) by lectin-based protein microarray. In Program and Abstract Book: 11th ACGG Conference, November 11-14, 2019, Haeundae Busan, Korea. Busan: Asian Community of Glycoscience and Glycotechnology, 2019, p. 173. (AFG)

#### **11.) Sieť kváskovej biotechnológie zameraná na nové, zdravšie a trvalo udržateľné potraviny a bioprocesy** (*SOURDOugh biotechnology network towards novel, healthier and sustainable food and bioproCesseS*)

<b>Zodpovedný riešiteľ:</b>	Zuzana Košťálová
<b>Trvanie projektu:</b>	10.4.2019 / 9.4.2023
<b>Evidenčné číslo projektu:</b>	COST Action CA18101
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	University of Porto
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	EC Brussels (COST): 607 € Podpora medzinárodnej spolupráce z národných zdrojov: 2848 €

##### Dosiahnuté výsledky:

Uskutočnilo sa prvé stretnutie riešiteľov projektu, kde boli vytvorené pracovné skupiny. Kolektív CHÚ SAV sa zapojil do skupiny WG7, ktorá je zameraná na analýzy a spracovanie odpadov z kváskovej technológie a bude sa venovať sacharidovému zloženiu daných odpadov.

#### **12.) Vybudovanie celoeurópskej siete pre udržateľné zhodnotenie lignínu** (*Establishment of a Pan-European network on the sustainable valorisation of lignin (LignoCOST)*)

<b>Zodpovedný riešiteľ:</b>	Vladimír Mastihuba
<b>Trvanie projektu:</b>	4.10.2018 / 3.10.2022
<b>Evidenčné číslo projektu:</b>	CA COST Action CA17128
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Stichting Wageningen Research
<b>Počet spoluriešiteľských inštitúcií:</b>	0

**Čerpané financie:** EC Brussels (COST): 806 €  
Podpora medzinárodnej spolupráce z národných zdrojov: 4746 €

Dosiahnuté výsledky:

Pokračuje sa v príprave série glykozylovaných derivátov tyrosolu a ich analógov pre biologické testovanie. Bol pripravený hydrofóbne iónovaný preparát peroxidázy pre depolymerizáciu lignínu.

HOLLÁ, Veronika - ANTOŠOVÁ, Monika - KARKESZOVÁ, Klaudia - MASTIHUBA, Vladimír - POLAKOVIČ, Milan. Screening of commercial enzymes for transfructosylation of tyrosol: Effect of process conditions and reaction network. In *Biotechnology Journal*, 2019, vol. 14, Issue 8, article number 1800571. (3.543 - IF2018). ISSN 1860-6768. (ADMA)

KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Enzymatic synthesis of tyrosol and hydroxytyrosol  $\beta$ -D-fructofuranosides. In *Biocatalysis and Biotransformation*, 2019, vol. 37, p. 18-24. (1.627 - IF2018). ISSN 1024-2422. (ADMA)

**13.) Náročné organické syntézy inšpirované prírodou – od chémie prírodných produktov k objavu liečiv** (*Challenging organic syntheses inspired by nature – from natural products chemistry to drug discovery*)

**Zodpovedný riešiteľ:** Mária Mastihubová  
**Trvanie projektu:** 16.3.2015 / 15.3.2019  
**Evidenčné číslo projektu:** CMST COST Action CM1407  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prof. Bruno Botta, Università degli Studi di Roma La Sapienza, Dipartimento di Chimica e Tecnologie del Farmaco, Rome  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0  
Podpora medzinárodnej spolupráce z národných zdrojov: 949 €

Dosiahnuté výsledky:

Boli vyhodnotené biologické aktivity (protirakovinové a antivirálne) série pripravených vzoriek. Poskytnuté deriváty nevykazovali významné aktivity, pokračuje sa vo vyhodnocovaní antibakteriálnych aktivít.

**14.) Sieť zeleného chemického inžinierstva smerom k zvyšovaniu udržateľnosti procesov** (*Green Chemical Engineering Network towards upscaling sustainable processes (GREENERING)*)

**Zodpovedný riešiteľ:** Mária Mastihubová  
**Trvanie projektu:** 14.10.2019 / 13.10.2023  
**Evidenčné číslo projektu:** COST Action CA18224  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa (FCT NOVA)  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** EC Brussels (COST): 1232 €

Dosiahnuté výsledky:

V októbri 2019 sa uskutočnilo v Bruseli prvé stretnutie MC (zástupcovia krajín zúčastnených na projekte). Boli vytvorené pracovné skupiny, organizačná štruktúra a rozdelili sa financie na projekt. Skupina Dr. Hromádkovej sa zapojila do pracovnej skupiny WG1 (realizácia zelených procesov v priemyselnom meradle).

**15.) Európsky systém na podporu výskumu a aplikácií karotenoidov v potravinárstve a zdravotníctve** (*European network to advance carotenoid research and applications in agro-food and health (EUROCAROTEN)*)

<b>Zodpovedný riešiteľ:</b>	Hana Schusterová
<b>Trvanie projektu:</b>	18.4.2016 / 17.4.2020
<b>Evidenčné číslo projektu:</b>	CMST COST Action CA15136
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Dr. Antonio J. Melendez-Martinez, Universidad de Sevilla, Sevilla
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Dosiahnuté výsledky:

Študoval sa vplyv iónov zinku, ktorý je esenciálnym prvkom pre kvasinky, reaktívnych kyslíkových radikálov ( $H_2O_2$ ) a ich kombinácie na kvasinkové kultúry *Rhodotorula glutinis*, *Rhodotorula kratochvilovae* a *Sporidiobolus salmonicolor*. Zistilo sa, že každá kultúra reagovala na prítomnosť uvedených látok iným spôsobom. *R. glutinis* produkovala najvyššie množstvá torularodínu a bola aj najrezistentnejšia spomedzi testovaných kmeňov voči účinku Zn a  $H_2O_2$  a ich kombinácie. *R. kratochvilovae* vykazovala najvyššiu sorpčnú kapacitu voči Zn(II) a *S. salmonicolor* produkoval najvyššie množstvá beta-karoténu v prítomnosti obidvoch látok. Predpokladáme, že samotný Zn(II) mal antioxidačný efekt, ale prídavkom peroxidu vodíka sa zmenil na prooxidačný. Keďže začiatkom roka 2020 projekt končí, jedným z výstupov bola aj sumarizácia produkcie karotenoidných pigmentov jednotlivými druhmi kvasiniek z hľadiska ich kvantitatívneho aj kvalitatívneho zastúpenia a vplyvu rôznych kultivačných podmienok.

KRIŽÁK, Jakub - BREIEROVÁ, Emília - SOTNÍKOVÁ, Ružena - FRIMMEL, Karel - KURA, Branislav - OKRUHLICOVÁ, Ľudmila. \* Carotenoids produced by yeast biomass protect mechanisms regulating endothelial barrier function from lipopolysaccharide-induced damage in the rat heart. In Journal of Physiology and Pharmacology, 2019, vol. 70, Issue 5, article 07. (2.544 - IF2018). ISSN 0867-5910. (ADCA)

**16.) Nekonvenčné kvasinky na výrobu bioproduktov** (*Non-conventional yeasts for the production of bioproducts (YEAST4BIO)*)

<b>Zodpovedný riešiteľ:</b>	Katarína Šuchová
<b>Trvanie projektu:</b>	7.11.2019 / 6.11.2023
<b>Evidenčné číslo projektu:</b>	COST Action CA18229
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	IMDEA Energy Institute

**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

Dosiahnuté výsledky:

Projekt sa začal riešiť v novembri 2019.

**Programy: Horizont 2020**

**17.) Umožnenie využitia celého potenciálu Instruct na konsolidáciu a rozšírenie infraštruktúry potrebnej pre výskum v oblasti vied o živote** (*Releasing the full potential of Instruct to expand and consolidate infrastructure services for integrated structural life science research*)

**Zodpovedný riešiteľ:** Miloš Hricovíni  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** Grant agreement No 731005  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Instruct Academic Services Limited, Oxford, UK  
**Počet spoluriešiteľských inštitúcií:** 16 - Belgicko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 2, Grécko: 1, Izrael: 1, Taliansko: 1, Holandsko: 1, Portugalsko: 1, Slovensko: 1, Švédsko: 1  
**Čerpané financie:** EC Brussels: 3500 €  
 Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Dosiahnuté výsledky:

V rámci projektu sa zorganizoval vedecký míting (14.-15.11.2019 v Bratislave), ktorého sa zúčastnilo 40 výskumníkov (z Česka, Talianska, Veľkej Británie a Slovenska - ústavy SAV a UPJŠ) a odznelo na ňom 20 prednášok zameraných na riešenie štruktúry biomolekúl. Vydaný bol zborník abstraktov:

HRICOVÍNI, Miloš (ed.). INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava. Bratislava: Institute of Chemistry SAS, 2019, 26 p. ISBN 978-80-971665-1-9. (FAI)

**18.) Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty** (*A Novel Detection protocols for RELiable prostate cancer assays*)

**Zodpovedný riešiteľ:** Ján Tkáč  
**Trvanie projektu:** 1.12.2018 / 31.5.2020  
**Evidenčné číslo projektu:** ERC PoC grant agreement ID: 825586  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 2 - Slovensko: 2  
**Čerpané financie:** ERC Brussels: 65593 €  
 Podpora medzinárodnej spolupráce z národných zdrojov: 8227 €

Dosiahnuté výsledky:

Študovaná bola glykoprofilácia viacerých proteínov ako biomarkerov rakoviny prostaty, prednostne však proteínu PSA (prostate specific antigen). Nová technológia glykoprofilácie vzoriek sér od pacientov s rakovinou prostaty a sér od mužov bez tohto ochorenia bola úspešne validovaná na 140 vzorkách. Okrem toho boli vyskúšané možnosti využitia elektrochemických metód pri glykoprofilovaní PSA.

BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika - JÁNÉ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ANDICSOVÁ ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. In *MethodsX*, 2019, vol. 6, p. 1999-2012. (IF2018 - nemá). (kvartil 2018: SJR - Q3/Q2; JCR - nemá). (2019 - WOS, Scopus). ISSN 2215-0161. (ADMB)

TKÁČ, Ján - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Glycomics of prostate cancer: updates. In *Expert Review of Proteomics*, 2019, vol. 16, p. 65-76. (2.963 - IF2018). (kvartil 2018: SJR - Q2/Q3; JCR - Q2). (2019 - WOS, Scopus). ISSN 1478-9450. (ADMA)

TKÁČ, Ján - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. In *Interface Focus*, 2019, vol. 9, art. no. 20180077. (3.092 - IF2018). (kvartil 2018: SJR - Q2/Q1/Q1/Q1/Q1/Q1; JCR - Q1). (2019 - WOS, Scopus). ISSN 2042-8898. (ADMA)

BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ Štefánia - GAJDOŠOVÁ, Veronika - JÁNÉ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ANDICSOVÁ ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica - TKÁČ, Ján.\* Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. In *Biosensors and Bioelectronics*, 2019, vol. 131, p. 24-29. (9.518 - IF2018). (kvartil 2018: SJR - Q1/Q1/Q1/Q1/Q1/Q1; JCR - Q1). (2019 - Current Contents). ISSN 0956-5663. (ADCA)

#### **19.) Syntetická biológia sacharid-viažucich proteínov: inžinierstvo proteín-sacharidových interakcií na diagnostiku a cielebnú bunkovú interakciu** (*Synthetic biology of carbohydrate-binding proteins: engineering protein-carbohydrate interactions for diagnostics and cell targeting*)

<b>Zodpovedný riešiteľ:</b>	Ján Tkáč
<b>Trvanie projektu:</b>	1.10.2018 / 30.9.2022
<b>Evidenčné číslo projektu:</b>	MSCA-ITN-ITN grant agreement ID: 814029
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	University of Leeds
<b>Počet spoluriešiteľských inštitúcií:</b>	7 - Rakúsko: 2, Nemecko: 1, Dánsko: 1, Francúzsko: 2, Veľká Británia: 1
<b>Čerpané financie:</b>	EC Brussels: 312590 € Podpora medzinárodnej spolupráce z národných zdrojov: 4746 €

#### Dosiahnuté výsledky:

Zahraniční doktorandi MSc. Juvisan Medalith Aguedo Ariza a MSc. Paras Harendra Kundalia nastúpili na projekt mobility v septembri 2019. Oboznámili sa s kľúčovými technikami, postupmi a infraštruktúrou, ktorá je na pracovisku a to najmä s prístrojmi Biacore (Surface Plasmon

Resonance), protein microarrays, ELISA, kombinácie hmotnostnej spektrometrie s kvapalinou chromatografiou, MALDI-TOF, elektrochemickými biosenzormi, atď. Postupne začali pracovať na témach svojich dizertačných prác.

AGUEDO, Juvisan - PAKANOVÁ, Zuzana - TKÁČ, Ján. Glycobiomarkers for diagnostics and monitoring of colorectal cancer. In Proceedings: European Summit of Industrial Biotechnology (esib/2019), November 18-20, 2019, Graz, Austria. Graz: acib GmbH, 2019, p. 92. (AFG)

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - PAŽITNÁ, Lucia - HEASOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Screening of protein glycosylation by lectin-based protein microarray. In Abstract Book: Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria. Berlin: M24You GmbH, 2019, p. 33. (AFE)

## Programy: JRP

### 20.) Mikroelektroforetické nástroje pre bioanalýzu (*Microelectrophoretic tools for bioanalysis*)

<b>Zodpovedný riešiteľ:</b>	Vladimír Pätoprstý
<b>Trvanie projektu:</b>	1.10.2017 / 30.9.2020
<b>Evidenčné číslo projektu:</b>	nemá
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Seoul National University
<b>Počet spoluriešiteľských inštitúcií:</b>	11 - Česko: 3, Maďarsko: 2, Kórejská republika: 2, Poľsko: 2, Slovensko: 2
<b>Čerpané financie:</b>	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

#### Dosiahnuté výsledky:

Pokračovalo sa v štúdiu mikroelektroforetických nástrojov pre bioanalýzu. Akceptovaný bol článok:

JÁRVÁS, Gábor - GUTTMAN, András - MIEKUS, Natalia - BĄCZEK, Tomasz - JEONG, Sunkyung - CHUNG, Doo Soo - PÄTOPRSTÝ, Vladimír - MASÁR, Marián - HUTTA, Milan - DATINSKÁ, Vladimíra - FORET, František. Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices. In TrAC Trends in Analytical Chemistry, accepted. DOI: 10.1016/j.trac.2019.115702. (8.428 - IF2018). (2018 - Current Contents). ISSN 0165-9936. (ADCA).

## Domáce projekty

### Programy: VEGA

#### 1.) Štúdium stability potenciálnych inhibítorov ľudských glykozyltransferáz (*Investigation of the stability of potential inhibitors of human glycosyltransferases*)

<b>Zodpovedný riešiteľ:</b>	Marek Baráth
<b>Trvanie projektu:</b>	1.1.2016 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	2/0024/16
<b>Organizácia je koordinátorom projektu:</b>	áno

**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 20239 €

**2.) Dizajn, syntéza a štúdium vzťahu medzi štruktúrou, aktivitou a selektivitou inhibítorov enzýmov z rodiny GH38** (*Design, synthesis and study of structure-activity-selectivity relationship of inhibitors against enzymes from GH38 family*)

**Zodpovedný riešiteľ:** Maroš Bella  
**Trvanie projektu:** 1.1.2019 / 31.12.2022  
**Evidenčné číslo projektu:** 2/0031/19  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 17084 €

**3.) Vývoj nových imobilizovaných biokatalyzátorov s využitím rekombinantných mikroorganizmov pre biokatalytické kaskádové reakcie** (*Development of novel immobilized biocatalysts utilizing recombinant microorganisms for biocatalytic cascade reactions*)

**Zodpovedný riešiteľ:** Marek Bučko  
**Trvanie projektu:** 1.1.2016 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0090/16  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** SAV (VEGA): 18464 €

**4.) Polysacharidy nižších a vyšších rastlín** (*Polysaccharides of lower and higher plants*)

**Zodpovedný riešiteľ:** Peter Capek  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0051/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 13799 €

**5.) Úloha proteínkináz v procesoch zúčastnených udržiavania stability genómu** (*Role of protein kinases in processes involved in maintenance of genome stability*)

**Zodpovedný riešiteľ:** Ľuboš Čipák  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Baráth  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0026/18  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Biomedicínske centrum SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 6000 €

**6.) Identifikácia a vlastnosti biologicky aktívnych látok izolovaných v rámci fytochemických štúdií** (*Identification and properties of biologically active compounds isolated in the framework of phytochemical studies*)

**Zodpovedný riešiteľ:** Viera Dujnič  
**Trvanie projektu:** 1.1.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 1/0763/19  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fakulta chemickej a potravinárskej technológie STU  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

**7.) Identifikácia a charakterizácia izolátov *V. cholerae* z vodných tokov, štrkovísk a termálnych vôd na území Slovenska** (*Identification and characterization of *V. cholerae* isolates from rivers, dams and thermal waters in Slovakia*)

**Zodpovedný riešiteľ:** Pavol Farkaš  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0093/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 6900 €

**8.) Štúdium protektívneho potenciálu syntetizovaných fenyletanoidných glykozidov v systémoch cicavčích buniek a plazmidovej DNA** (*Study of protective potential of synthesized phenylethanoid glycosides in the systems of mammalian cells and plasmid DNA*)

**Zodpovedný riešiteľ:** Eva Horváthová  
**Zodpovedný riešiteľ v organizácii SAV:** Mária Mastihubová  
**Trvanie projektu:** 1.1.2016 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0084/16



**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Biomedicínske centrum SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

**9.) Nové prekursorzy pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou** (*New glycoconjugate-based precursors of pharmaceuticals: structure-activity relationship analysis*)

**Zodpovedný riešiteľ:** Miloš Hricovíni  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0022/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 10950 €

**10.) Funkčné sacharidy z rastlinných odpadov ako potenciálny doplnok stravy: extrakcia, charakterizácia a terapeutické využitie** (*Functional carbohydrates from plant waste as a potential food supplement: extraction, characterization and therapeutic potentials*)

**Zodpovedný riešiteľ:** Zdenka Hromádková  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0092/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 4337 €

**11.) Chemoenzymatická príprava glykozylovaných opiátov a ich analógov** (*Chemo-enzymatic preparation of glycosylated opiates and their analogues*)

**Zodpovedný riešiteľ:** Andrej Chyba  
**Trvanie projektu:** 1.1.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0153/19  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 3943 €

**12.) Analýza glykánových markerov inovatívnymi metódami založenými na biočipoch a biosenzoroch s využitím nanotechnológií** (*Analysis of glycan markers by innovative methods based on biochips and biosensors using nanotechnologies*)

**Zodpovedný riešiteľ:** Jaroslav Katrlík  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0137/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 28539 €

**13.) Antimikrobiálne látky v larválnej potrave včely a ich účinok voči patogénu moru včelieho plodu** (*Antimicrobial substances in honeybee larval food and their effect against American foulbrood pathogen*)

**Zodpovedný riešiteľ:** Jaroslav Klaudiny  
**Trvanie projektu:** 1.1.2019 / 31.12.2022  
**Evidenčné číslo projektu:** 2/0164/19  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA: 9623 €

**14.) Účast' molekúl s biologickou aktivitou a bunkovej steny rastlín v obranných procesoch rastlín vyvolaných abiotickým stresom** (*Participation of molecules with biological activity and plant cell wall in defence processes of plants induced by abiotic stress*)

**Zodpovedný riešiteľ:** Karin Kollárová  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0105/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 13500 €

**15.) Analýza alelovo-špecifickej regulácie expresie CD33** (*Analyses of allele-specific regulation of CD33 expression*)

**Zodpovedný riešiteľ:** Jana Kráľovičová  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Baráth  
**Trvanie projektu:** 1.1.2018 / 31.12.2021

**Evidenčné číslo projektu:** 2/0057/18  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Centrum biovied SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

**16.) Vplyv včelieho enzýmu glukózooxidáza na antibakteriálne vlastnosti medu a charakterizácia jeho produkcie a aktivity v podhltanových žľazách včely medonosnej (*Apis mellifera*)** (*Effect of honeybee glucose oxidase on honey antibacterial properties and characterisation its production and activity in hypopharyngeal glands of honeybee (Apis mellifera)*)

**Zodpovedný riešiteľ:** Juraj Majtán  
**Zodpovedný riešiteľ v organizácii SAV:** Jaroslav Klaudiny  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0004/18  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav molekulárnej biológie SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

**17.) Diglykozidázy v biokatalýze (*Diglycosidases in biocatalysis*)**

**Zodpovedný riešiteľ:** Vladimír Mastihuba  
**Trvanie projektu:** 1.1.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0126/19  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 9200 €

**18.) Enzymatická produkcia ekonomicky významných oligosacharidov a opiátov (*Enzymatic production of economically valuable oligosaccharides and opiates*)**

**Zodpovedný riešiteľ:** Jozef Nahálka  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0058/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 6571 €

**19.) MALDI-TOF-MS a ESI-MSn glykoprofilovanie klinicky významných proteínov** (*MALDI-TOF-MS and ESI-MSn glycoprofiling of clinically important proteins*)

**Zodpovedný riešiteľ:** Marek Nemčovič  
**Trvanie projektu:** 1.1.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0130/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 4672 €

**20.) Imunobiologická efektívnosť nových syntetických imunogénov mimikujúcich fungálne molekulové vzory patogénnosti v perspektívnom dizajne subjednotkovej antifungálnej vakcinačnej formuly** (*Immunological effectivity of new synthetic immunogens mimicking fungal pathogen associated molecular patterns in prospective design of subcellular anti-fungal vaccine formulae*)

**Zodpovedný riešiteľ:** Ema Paulovičová  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0098/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 10329 €

**21.) Vývoj nových techník úpravy biomedicínskych a environmentálnych vzoriek pre pokročilé kombinované analytické metódy** (*Development of new biomedical and environmental sample processing techniques for advanced combined analytical methods*)

**Zodpovedný riešiteľ:** Vladimír Pätoprstý  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 1/0787/18  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prírodovedecká fakulta UK  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 3022 €

**22.) Enzymový rozklad najneprístupnejších epitopov rastlinných polysacharidov** (*Enzymatic decomposition of the most recalcitrant epitopes of plant polysaccharides*)

**Zodpovedný riešiteľ:** Vladimír Puchart  
**Trvanie projektu:** 1.1.2018 / 31.12.2021

**Evidenčné číslo projektu:** 2/0016/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV (VEGA): 5773 €

**23.) Redoxná homeostáza, proteostáza a zápal ako potenciálne ciele pre ovplyvnenie starnutia a s ním spojených ochorení: Modulácia pomocou látok prírodného a syntetického pôvodu**  
*(Redox homeostasis, proteostasis and inflammation as potential targets for influencing ageing and age-related diseases: Modulation by the compounds of natural and synthetic origin)*

**Zodpovedný riešiteľ:** Lucia Račková  
**Zodpovedný riešiteľ v organizácii SAV:** Ján Mucha  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0041/17  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Centrum experimentálnej medicíny SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

**24.) Multi-škálové modelovanie interakcií atómov prechodných kovov a heterocyklických a cukrom-podobných látok**  
*(Multi-scale modelling of transition metal interactions with heterocyclic and sugar-like compounds)*

**Zodpovedný riešiteľ:** Vladimír Sládek  
**Trvanie projektu:** 1.1.2016 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0035/16  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** SAV (VEGA): 1314 €

**25.) Štruktúra, funkcia a mechanizmus účinku rastlinných a fungálnych transglykozyáz**  
*(Structure, function and mechanism of action of plant and fungal transglycosylases)*

**Zodpovedný riešiteľ:** Eva Stratilová  
**Trvanie projektu:** 1.1.2016 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0058/16  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0

inštitúcií:

Čerpané financie: SAV (VEGA): 8443 €

**26.) Kvasinky a kvasinkovité organizmy asociované s kvitnúcimi rastlinami a trávami** (*Yeasts and yeast-like organisms associated with flowering plants and grasses*)

Zodpovedný riešiteľ: Renáta Vadkertiová  
 Trvanie projektu: 1.1.2018 / 31.12.2021  
 Evidenčné číslo projektu: 2/0017/18  
 Organizácia je koordinátorom projektu: áno  
 Koordinátor: Chemický ústav SAV  
 Počet spoluriešiteľských inštitúcií: 0  
 Čerpané financie: SAV (VEGA): 4880 €

**27.) Štruktúrne a funkčné adaptácie vybraných extremofilov a poľnohospodárskych plodín na abiotické stresory** (*Structural and functional adaptations of selected extremophiles and agricultural crops to abiotic stressors*)

Zodpovedný riešiteľ: Zuzana Vivodová  
 Trvanie projektu: 1.1.2017 / 31.12.2020  
 Evidenčné číslo projektu: 1/0605/17  
 Organizácia je koordinátorom projektu: nie  
 Koordinátor: Prírodovedecká fakulta UK  
 Počet spoluriešiteľských inštitúcií: 0  
 Čerpané financie: SAV (VEGA): 744 €

**Programy: APVV****28.) Proteín Dbl2 ako nový regulátor stability a dynamiky genómu v kvasinkách**  
*Schizosaccharomyces pombe* (*Protein Dbl2 as a novel regulator of genome stability and dynamics in fission yeast*)

Zodpovedný riešiteľ: Silvia Bágeľová Poláková  
 Zodpovedný riešiteľ v organizácii SAV: Peter Baráth  
 Trvanie projektu: 1.7.2019 / 30.6.2023  
 Evidenčné číslo projektu: APVV-18-0219  
 Organizácia je koordinátorom projektu: nie  
 Koordinátor: Centrum biovied SAV  
 Počet spoluriešiteľských inštitúcií: 0  
 Čerpané financie: APVV: 6698 €

**29.) Podpora mladých vedeckých pracovníkov formou paušálnej refundácie oprávnených nákladov vynaložených v roku 2019** (*Support for young researchers in the form of reimbursement of eligible costs incurred in 2019*)

**Zodpovedný riešiteľ:** Tomáš Bertók  
**Trvanie projektu:** 8.11.2019 / 31.12.2019  
**Evidenčné číslo projektu:** MVP-2019-0044  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 4357 €

**30.) Imobilizované rekombinantné mikroorganizmy pre biotechnologickú produkciu chemických špecialít pomocou biokatalytických kaskádových reakcií** (*Immobilized recombinant microorganisms for the biotechnological production of chemical specialties using biocatalytic cascade reactions*)

**Zodpovedný riešiteľ:** Marek Bučko  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0227  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 3 - Slovensko: 3  
**Čerpané financie:** APVV: 27680 €

**31.) Príprava modelovej subcelulárnej vakcíny z manooligomérnych štruktúr kvasinky Candida albicans** (*Preparation of model subcellular vaccine from mannoooligomer structures of Candida albicans yeast*)

**Zodpovedný riešiteľ:** Pavol Farkaš  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0161  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 65000 €

**32.) Biočipy a biosenzory pre glykorozpoznávanie, ich vývoj, príprava a využitie pri výskume rakoviny** (*Biochips and biosensors for glycorecognition, their development, preparation and application in cancer research*)

**Zodpovedný riešiteľ:** Jaroslav Katrlík  
**Trvanie projektu:** 1.7.2015 / 30.6.2019

**Evidenčné číslo projektu:** APVV-14-0753  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 3 - Slovensko: 3  
**Čerpané financie:** APVV: 20895 €

**33.) Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok** (*Computational design, synthesis, testing and disposition of inhibitors of neuraminidases of influenza A virus as potential antiviral compounds*)

**Zodpovedný riešiteľ:** Jaroslav Katrlík  
**Trvanie projektu:** 1.7.2018 / 30.6.2022  
**Evidenčné číslo projektu:** APVV-17-0239  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Univerzita Komenského v Bratislave, Farmaceutická fakulta  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 842 €

**34.) Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách** (*Potential of silicon for mitigation of arsenic and antimony toxicity in agricultural crops*)

**Zodpovedný riešiteľ:** Karin Kollárová  
**Trvanie projektu:** 1.7.2018 / 30.6.2022  
**Evidenčné číslo projektu:** APVV-17-0164  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Univerzita Komenského v Bratislave, Prírodovedecká fakulta  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 10000 €

**35.) Syntetická biológia pre produkciu nových biologicky aktívnych látok u streptomycét** (*Synthetic biology for the production of new biologically active compounds in streptomycetes*)

**Zodpovedný riešiteľ:** Ján Kormanec  
**Zodpovedný riešiteľ v organizácii SAV:** Mária Matulová  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0410  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav molekulárnej biológie SAV  
**Počet spoluriešiteľských inštitúcií:** 0



**Čerpané financie:** APVV: 12174 €

**36.) Kotranskripčné formovanie pre-mRNA štruktúry, model štruktúrnych motívov nevyhnutných pre definíciu exónu** (*Co-transcriptional folding of pre-mRNA, model of structural motifs required for exon definition*)

**Zodpovedný riešiteľ:** Jana Kráľovičová  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Baráth  
**Trvanie projektu:** 1.7.2019 / 30.6.2023  
**Evidenčné číslo projektu:** APVV-18-0096  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Centrum biovied SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 4878 €

**37.) Posttranslačné modifikácie v mitochondriách a ich úloha v patologických procesoch** (*Post-translation modifications in mitochondria and their role in pathological processes*)

**Zodpovedný riešiteľ:** Eva Kutejová  
**Zodpovedný riešiteľ v organizácii SAV:** Ján Mucha  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0375  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav molekulárnej biológie SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 21000 €

**38.) Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom** (*Regulation of pericellular proteolysis: From molecular mechanisms to novel immune cell subsets and therapeutic tools*)

**Zodpovedný riešiteľ:** Vladimír Leksa  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Baráth  
**Trvanie projektu:** 1.7.2017 / 30.6.2021  
**Evidenčné číslo projektu:** APVV-16-0452  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav molekulárnej biológie SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 2772 €

**39.) Podpora mladých vedeckých pracovníkov formou paušálnej refundácie oprávnených nákladov vynaložených v roku 2019** (*Support for young researchers in the form of reimbursement of eligible costs incurred in 2019*)

**Zodpovedný riešiteľ:** Lenka Lorencová  
**Trvanie projektu:** 8.11.2019 / 31.12.2019  
**Evidenčné číslo projektu:** MVP-2019-0043  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 4738 €

**40.) Vývoj nových teoretických nástrojov pre predikciu a interpretáciu EPR a NMR parametrov** (*Developing new theoretical tools for prediction and interpretation of EPR and NMR parameters*)

**Zodpovedný riešiteľ:** Vladimír Malkin  
**Zodpovedný riešiteľ v organizácii SAV:** Miloš Hricovíni  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0726  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav anorganickej chémie SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 4500 €

**41.) Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov** (*Chemoenzymatic synthesis of substances with pharmaceutical potential: Optimization of processes of phenylethanoid glycosides production*)

**Zodpovedný riešiteľ:** Vladimír Mastihuba  
**Trvanie projektu:** 1.7.2019 / 30.6.2023  
**Evidenčné číslo projektu:** APVV-18-0188  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** APVV: 11135 €

**42.) Produkcia bakteriálnych inklúzných teliesok pre biokatalýzu a biomedicínu (BIT-scale up)** (*Production of bacterial inclusion bodies for biocatalysis and biomedicine (BIB-scale up)*)

**Zodpovedný riešiteľ:** Jozef Nahálka

**Trvanie projektu:** 1.7.2019 / 30.6.2023  
**Evidenčné číslo projektu:** APVV-18-0361  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 39872 €

#### 43.) Inovatívne prístupy v toxikológii starnutia (*Innovative approaches in toxicology of ageing*)

**Zodpovedný riešiteľ:** Lucia Račková  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Baráth  
**Trvanie projektu:** 1.7.2019 / 30.6.2023  
**Evidenčné číslo projektu:** APVV-18-0336  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Centrum experimentálnej medicíny SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 14932 €

#### 44.) Glykánové bionanosenzory a bioanalytické zariadenia - ich konštrukcia, validácia a aplikácia v diagnostike rakoviny (*Glycan bionanosensors and bioanalytical devices - their construction, validation and application for cancer diagnostics*)

**Zodpovedný riešiteľ:** Ján Tkáč  
**Trvanie projektu:** 1.7.2018 / 30.6.2022  
**Evidenčné číslo projektu:** APVV-17-0300  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** APVV: 55982 €

#### 45.) Zbierka kultúr kvasiniek ako biobanka pre budúce generácie (*Culture Collection of Yeasts as a biobank for future generations*)

**Zodpovedný riešiteľ:** Renáta Vadkertiová  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0744  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 29948 €

**Programy: Iné projekty****46.) Nové prístupy k diagnostike porúch metabolizmu glykokonjugátov** (*New approaches in the diagnostics of glycoconjugate metabolism disorders*)

**Zodpovedný riešiteľ:** Zuzana Pakanová  
**Trvanie projektu:** 1.11.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 2019/7-CHÚSAV-4  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** 0

**47.) Glykoprofilácia proteínov prítomných v sére a v exózomoch pre včasnú diagnostiku rakoviny prostaty** (*Glycoprofiling of proteins present in serum and exosomes for early prostate cancer diagnostics*)

**Zodpovedný riešiteľ:** Ján Tkáč  
**Trvanie projektu:** 1.12.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 2019/68-CHÚSAV-1  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** Ministerstvo zdravotníctva SR: 72453 €

**48.) Skorá diagnostika kolorektálneho karcinómu a rakoviny semeníkov glykoprofiláciou** (*Early diagnostics of colorectal and testicular cancer by glycoprofiling*)

**Zodpovedný riešiteľ:** Ján Tkáč  
**Trvanie projektu:** 1.12.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2018/23-SAV-1  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** Ministerstvo zdravotníctva SR: 99925 €

**Príloha C****Publikačná činnosť organizácie (generovaná z ARL)****ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

- ABC01 BELICKÁ, Ľudmila, Kľuková\*\*. Introduction to glycomics and glycan analysis. In Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019. - Singapore : Jenny Stanford Publishig, 2019, chapter 2, p. 33-64. ISBN 978-98148000167.
- ABC02 BERTÓK, Tomáš\*\*. Introductory nanotechnology: What is so special about the nanoscale? In Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019. - Singapore : Jenny Stanford Publishig, 2019, chapter 1, p. 1-32. ISBN 978-98148000167.
- ABC03 HOLAZOVÁ, Alena, Šedivá\*\*. Bioanalytical methods. In Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019. - Singapore : Jenny Stanford Publishig, 2019, chapter 3, p. 65-108. ISBN 978-98148000167.
- ABC04 JÁNĚ, Eduard\*\*. Simulation of different biosensors using MatLab. In Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019. - Singapore : Jenny Stanford Publishig, 2019, chapter 5, p. 169-216. ISBN 978-98148000167.
- ABC05 LORENCOVÁ, Lenka\*\*. Functional nanomaterials in sensing and biosensing applications. In Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019. - Singapore : Jenny Stanford Publishig, 2019, p. 109-168. ISBN 978-98148000167.
- ABC06 RENARD, Pascal - CANET, Isabelle - SANCELME, Martine - MATULOVÁ, Mária - UHĽIARIKOVÁ, Iveta - EYHERAGUIBEL, Boris - NAUTON, Lionel - DEVEMY, Julien - TRAIKIA, Mounir - Malfreyt, Patrice - DELORT, Anne-Marie\*\*. Cloud microorganisms, an interesting source of biosurfactants. In Surfactants and Detergents. - London : IntechOpen, 2019, chapter 6, 17 p. ISBN 978-1-78984-661-4.
- ABC07 TKÁČ, Ján\*\*. Introduction to glycan enrichment using nanomaterials. In Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019. - Singapore : Jenny Stanford Publishig, 2019, chapter 7, p. 257-276. ISBN 978-98148000167.
- ABC08 TURÁNEK, Jaroslav\*\* - MAŠEK, Josef - RAŠKA, Milan\*\* - LEDVINA, Miroslav - PAULOVÍČOVÁ, Ema - HUBATKA, František - KOTOUČEK, Jan\*\*. Modification of liposomal surface by polysaccharides: Preparation, characterization and application for drug targeting. In Functional Polysaccharides for Biomedical Applications. - Kidlington, UK : Woodhead Publishing (imprint of Elsevier), 2019, p. 433-460. ISBN 978-0-08-102555-0.

**ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

- ADCA01 ARAI, Tsutomu - BIELY, Peter - UHĽIARIKOVÁ, Iveta - SATO, Nobuaki - MAKISHIMA, Satoshi - MIZUNO, Masahiro - NOZAKI, Kouichi - KANEKO, Satoshi - AMANO, Yoshihiko\*\*. Structural characterization of hemicellulose released from corn cob in continuous flow type hydrothermal reactor. In Journal of Bioscience and Bioengineering, 2019, vol. 127, p. 222-230. (2018: 2.032 - IF, Q2 - JCR, 0.617 - SJR, Q2 - SJR, karentované - CCC). ISSN 1389-1723.
- ADCA02 ARUMUGAM, Nathakumar - BIELY, Peter - PUCHART, Vladimír - GERRANO,

- Abe Shegro - DE MUKHERJEE, Koel - SINGH, Suren - PILLAI, Santhosh\*\*. Xylan from bambara and cowpea biomass and their structural elucidation. In International Journal of Biological Macromolecules, 2019, vol. 132, p. 987-993. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). ISSN 0141-8130.
- ADCA03 BARBORÍKOVÁ, Jana - ŠUTOVSKÁ, Martina - KAZIMIEROVÁ, Ivana - JOŠKOVÁ, Marta - FRAŇOVÁ, Soňa - KOPECKÝ, Ján - CAPEK, Peter\*\*. Extracellular polysaccharide produced by *Chlorella vulgaris* – Chemical characterization and anti-asthmatic profile. In International Journal of Biological Macromolecules, 2019, vol. 135, p. 1-11. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). ISSN 0141-8130.
- ADCA04 BARTHELDYOVÁ, Eliška - TURÁNEK-KNOTIGOVÁ, Pavlína - ZACHOVÁ, Kateřina - MAŠEK, Jozef - KULICH, Pavel - EFFENBERG, Roman - ZYKA, Daniel - HUBATKA, František - KOTOUČEK, Jan - ČELECHOVSKÁ, Hana - HÉŽOVÁ, Renata - TOMEČKOVÁ, Andrea - MAŠKOVÁ, Eliška - FOJTÍKOVÁ, Martina - MACAULAY, Stuart - BYSTRICKÝ, Peter - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema\*\* - DROŽ, Ladislav - LEDVINA, Miroslav\*\* - RAŠKA, Milan\*\* - TURÁNEK, Jaroslav\*\*. N-Oxy lipid-based click chemistry for orthogonal coupling of mannan onto nanoliposomes prepared by microfluidic mixing: Synthesis of lipids, characterisation of mannan-coated nanoliposomes and in vitro stimulation of dendritic cells. In Carbohydrate Polymers, 2019, vol. 207, p. 521-532. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, karentované - CCC). ISSN 0144-8617.
- ADCA05 BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika - JÁNÉ, Eduard - HÍREŠ, Michal - KASÁK, Peter - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ECKSTEIN ANDICSOVÁ, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján\*\*. Advanced impedimetric biosensor configuration and assay protocol for glycoprofiling of a prostate oncomarker using Au nanoshells with a magnetic core. In Biosensors and Bioelectronics, 2019, vol. 131, p. 24-29. (2018: 9.518 - IF, Q1 - JCR, 2.553 - SJR, Q1 - SJR, karentované - CCC). ISSN 0956-5663.
- ADCA06 BERTÓK, Tomáš\*\* - LORENCOVÁ, Lenka - CHOCHOLOVÁ, Erika, Došeková - JÁNÉ, Eduard - VIKARTOVSKÁ, Alica, Welwardová - KASÁK, Peter - TKÁČ, Ján\*\*. Electrochemical impedance spectroscopy based biosensors: Mechanistic principles, analytical examples and challenges towards commercialization for assays of protein cancer biomarkers. In ChemElectroChem, 2019, vol. 6, p. 989-1003. (2018: 3.975 - IF, Q2 - JCR, 1.245 - SJR, Q1 - SJR, karentované - CCC). ISSN 2196-0216.
- ADCA07 BLŠÁKOVÁ, Anna - KVĚTONĚ, Filip - KASÁK, Peter - TKÁČ, Ján\*\*. Antibodies against aberrant glycans as cancer biomarkers. In Expert Review of Molecular Diagnostics, 2019, vol. 19, p. 1057-1068. (2018: 3.099 - IF, Q2 - JCR, 1.171 - SJR, Q1 - SJR, karentované - CCC). ISSN 1473-7159.
- ADCA08 BOKOR, Boris - SOUKUP, Milan - VACULÍK, Marek - VĎAČNÝ, P. - WEIDINGER, Marieluise - LICHTSCHEIDL, Irene - VÁVROVÁ, Silvia - ŠOLTYS, Katarína - SONAH, Humira - DESHMUKH, Rupesh - BÉLANGER, Richard - WHITE, Philip J. - EL-SEREHY, Hamed A. - LUX, Alexander\*\*. Silicon uptake and ILocalisation in date palm (*Phoenix dactylifera*) – A unique association with sclerenchyma. In Frontiers in Plant Science, 2019, vol. 10, art. no. 988. (2018: 4.106 - IF, Q1 - JCR, 1.687 - SJR, Q1 - SJR, karentované - CCC). ISSN 1664-462X.
- ADCA09 BUČEKOVÁ, Marcela - JARDEKOVÁ, Lucia - JURICOVÁ, Valéria - BUGÁROVÁ, Veronika - DI MARCO, Gabriele - GISMONDI, Angelo - LEONARDI, Donatella - FARKAŠOVSKÁ, Jarmila - GODOČÍKOVÁ, Jana - LAHO, Maroš - KLAUDINY, Jaroslav - MAJTÁN, Viktor - CANINI, Antonella -

- MAJTÁN, Juraj\*\*. Antibacterial activity of different blossom honeys: New findings. In *Molecules*, 2019, vol. 24, no. 8, no. 1573. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). ISSN 1420-3049.
- ADCA10 ČIPÁKOVÁ, Ingrid - JURČÍK, Matúš - RUBINTOVÁ, Veronika - BORBOVÁ, Marianna - MIKOLÁŠKOVÁ, Barbora - JURČÍK, Ján - BELLOVÁ, Jana - BARÁTH, Peter - GREGAN, Juraj\*\* - ČIPÁK, Ľuboš\*\*. Identification of proteins associated with splicing factors Ntr1, Ntr2, Brr2 and Gpl1 in the fission yeast *Schizosaccharomyces pombe*. In *Cell Cycle*, 2019, vol. 18, no. 14, p. 1532-1536. (2018: 3.259 - IF, Q3 - JCR, 1.327 - SJR, Q1 - SJR, karentované - CCC). ISSN 1538-4101.
- ADCA11 ČÍŽOVÁ, Alžbeta\*\* - CSOMOROVÁ, Katarína - RYCHLÝ, Jozef - BYSTRICKÝ, Slavomír. Stability of cationic and amphoteric derivatives of mannan from the yeast *Candida albicans*. In *Carbohydrate Polymers*, 2019, vol. 207, p. 440-446. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, karentované - CCC). ISSN 0144-8617.
- ADCA12 DANKO, Martin - KRONEKOVÁ, Zuzana - MRLÍK, Miroslav - OSICKA, Josef - YOUSAF, Ammar bin - MIHÁLOVÁ, Andrea - TKÁČ, Ján - KASÁK, Peter\*\*. Sulfobetaines meet carboxybetaines: Modulation of thermo- and ion-responsivity, water structure, mechanical properties, and cell adhesion. In *Langmuir*, 2019, vol. 35, no. 5, p. 1391-1403. (2018: 3.683 - IF, Q2 - JCR, 1.209 - SJR, Q1 - SJR, karentované - CCC). ISSN 0743-7463.
- ADCA13 FANG, Wenxia - SANZ, Ana Belén - BARTUAL, Sergio Galán - WANG, Bin - FERENBACH, Andrew T. - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier\*\* - VAN AALTEN, Daan M.F.\*\*. Mechanisms of redundancy and specificity of the *Aspergillus fumigatus* Crh transglycosylases. In *Nature Communications*, 2019, vol. 10, art. no. 1669. (2018: 11.878 - IF, Q1 - JCR, 5.992 - SJR, Q1 - SJR, karentované - CCC). ISSN 2041-1723.
- ADCA14 FILIP, Jaroslav - ZAVAHIR, Sifani - LORENCOVÁ, Lenka - BERTÓK, Tomáš - YOUSAF, Ammar Bin - MAHMOUD, Khaled A. - TKÁČ, Ján - KASÁK, Peter\*\*. Tailoring electrocatalytic properties of Pt nanoparticles grown on Ti3C2TX MXene surface. In *Journal of the Electrochemical Society*, 2019, vol. 166, p. H54-H62. (2018: 3.120 - IF, Q1 - JCR, 1.138 - SJR, Q1 - SJR, karentované - CCC). ISSN 0013-4651.
- ADCA15 GONDA, Jozef\*\* - ŠIROKÝ, Michael - MARTINKOVÁ, Miroslava - HOMOLYA, Samuel - VILKOVÁ, Mária - BAGO PILÁTOVÁ, Martina - ŠESTÁK, Sergej. Synthesis and biological activity of diastereoisomeric octahydro-1H-indole-5,6,7-trioles, analogues of castanospermine. In *Tetrahedron*, 2019, vol. 75, p. 398-408. (2018: 2.379 - IF, Q2 - JCR, 0.709 - SJR, Q2 - SJR, karentované - CCC). ISSN 0040-4020.
- ADCA16 HALAJ, Michal - PAULOVIČOVÁ, Ema - PAULOVIČOVÁ, Lucia - JANTOVÁ, Soňa - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter\*\*. Extracellular biopolymers produced by *Dictyosphaerium* family - Chemical and immunomodulative properties. In *International Journal of Biological Macromolecules*, 2019, vol. 121, p. 1254-1263. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). ISSN 0141-8130.
- ADCA17 HARADA, Ryuhei\*\* - SLÁDEK, Vladimír\*\* - SHIGETA, Yasuteru\*\*. Nontargeted parallel cascade selection molecular dynamics using time-localized prediction of conformational transitions in protein dynamics. In *Journal of Chemical Theory and Computation*, 2019, vol. 15, p. 5144-5153. (2018: 5.313 - IF, Q1 - JCR, 2.236 - SJR, Q1 - SJR, karentované - CCC). ISSN 1549-9618.
- ADCA18 HARADA, Ryuhei\*\* - SLÁDEK, Vladimír\*\* - SHIGETA, Yasuteru\*\*. Non-targeted parallel cascade selection molecular dynamics based on a nonredundant selection rule for initial structures enhances conformational sampling of proteins. In

- Journal of Chemical Information and Modeling, 2019, vol. 59, issue 12, p. 5198-5206. (2018: 3.966 - IF, Q1 - JCR, 1.446 - SJR, Q1 - SJR, karentované - CCC). ISSN 1549-9596.
- ADCA19 HÍREŠ, Michal - JÁNÉ, Eduard - MEGO, Michal - CHOVANEC, Michal - KASÁK, Peter\*\* - TKÁČ, Ján\*\*. Glycan analysis as biomarkers for testicular cancer. In Diagnostics, 2019, vol 9, iss. 4, art no. 156. (2018: 2.489 - IF, Q2 - JCR, 0.197 - SJR, Q2 - SJR, karentované - CCC). ISSN 2075-4418.
- ADCA20 HLASOVÁ, Zuzana - KOŠÍK, Ivan - ONDREJOVIČ, Miroslav - MIERTUŠ, Stanislav - KATRLÍK, Jaroslav\*\*. Methods and current trends in determination of neuraminidase activity and evaluation of neuraminidase inhibitors. In Critical Reviews in Analytical Chemistry, 2019, vol. 49, p. 350-367. (2018: 4.325 - IF, Q1 - JCR, 0.852 - SJR, Q1 - SJR, karentované - CCC). ISSN 1040-8347.
- ADCA21 HORVÁTHOVÁ, Eva\*\* - MASTIHUBOVÁ, Mária - KARNISOVÁ POTOCKÁ, Elena - KIS, Peter - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - KLAPÁKOVÁ, Martina - HUNÁKOVÁ, Ľuba - MASTIHUBA, Vladimír. Comparative study of relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells culture in vitro. In Toxicology in vitro : the official journal of the European Society for Toxicology in Vitro, 2019, vol. 61, art.no. 104646. (2018: 3.067 - IF, Q2 - JCR, 0.895 - SJR, Q1 - SJR, karentované - CCC). ISSN 0887-2333.
- ADCA22 KASÁK, Peter\*\* - DANKO, Martin - ZAVAHIR, Sifani - MRLÍK, Miroslav - XIONG, Yuan - YOUSAF, Ammar Bin - LAI, Wing-Fu - KRUPA, Igor - TKÁČ, Ján - ROGACH, Andrey L.\*\*. Identification of molecular fluorophore as a component of carbon dots able to induce gelation in a fluorescent multivalent-metal-ion-free alginate hydrogel. In Scientific Reports, 2019, vol. 9, art.no. 15080, [11] p. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). ISSN 2045-2322.
- ADCA23 KHARMA, Ammar - MIŠÁK, Anton - GRMAN, Marián - BREZOVÁ, Vlasta - KURAKOVÁ, Lucia - BARÁTH, Peter - JACOB, Claus - CHOVANEC, Miroslav - ONDRIAŠ, Karol - DOMÍNGUEZ-ÁLVAREZ, Enrique\*\*. Release of reactive selenium species from phthalic selenoanhydride in the presence of hydrogen sulfide and glutathione with implications for cancer research. In New Journal of Chemistry, 2019, vol. 43, no. 29, p. 11771-11783. (2018: 3.069 - IF, Q2 - JCR, 0.716 - SJR, Q1 - SJR, karentované - CCC). ISSN 1144-0546.
- ADCA24 KLUNDA, Tomáš - ŠESTÁK, Sergej - KÓŇA, Juraj - POLÁKOVÁ, Monika\*\*. Synthesis of N-benzyl substituted 1,4-imino-L-lyxitols with a basic functional group as selective inhibitors of Golgi alfa-mannosidase IIb. In Bioorganic Chemistry, 2019, vol. 83, p. 424-431. (2018: 3.926 - IF, Q1 - JCR, 0.696 - SJR, Q1 - SJR, karentované - CCC). ISSN 0045-2068.
- ADCA25 KOLLÁROVÁ, Karin - KUSÁ, Zuzana - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. The response of maize protoplasts to cadmium stress mitigated by silicon. In Ecotoxicology and Environmental Safety, 2019, vol. 170, p. 488-494. (2018: 4.527 - IF, Q1 - JCR, 1.174 - SJR, Q1 - SJR, karentované - CCC). ISSN 0147-6513.
- ADCA26 KOŠTÁLOVÁ, Zuzana\*\* - HROMÁDKOVÁ, Zdenka. Structural characterisation of polysaccharides from roasted hazelnut skins. In Food Chemistry, 2019, vol. 286, p. 179-184. (2018: 5.399 - IF, Q1 - JCR, 1.768 - SJR, Q1 - SJR, karentované - CCC). ISSN 0308-8146.
- ADCA27 KRIŽÁK, Jakub - BREIEROVÁ, Emília - SOTNÍKOVÁ, Ružena - FRIMMEL, Karel - KURA, Branislav - OKRUHLICOVÁ, Ľudmila\*\*. Carotenoids produced by yeast biomass protect mechanisms regulating endothelial barrier function from lipopolysaccharide-induced damage in the rat heart. In Journal of Physiology and



- Pharmacology : formerly Acta Physiologica Polonica, 2019, vol. 70, issue 5, article 07. (2018: 2.544 - IF, Q2 - JCR, 0.791 - SJR, Q2 - SJR, karentované - CCC). ISSN 0867-5910.
- ADCA28 LORENCOVÁ, Lenka - GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - ŠEFČOVIČOVÁ, Jana, Blahutová - VIKARTOVSKÁ, Alica, Welwardová - PAPRÁKOVÁ, Lucia - GEMEINER, Pavol - KASÁK, Peter - TKÁČ, Ján\*\*. 2D MXenes as perspective immobilization platforms for design of electrochemical nanobiosensors. In Electroanalysis, 2019, vol. 31, p. 1833-1844. (2018: 2.691 - IF, Q2 - JCR, 0.621 - SJR, Q2 - SJR, karentované - CCC). ISSN 1040-0397.
- ADCA29 MASTIHUBA, Vladimír\*\* - KARNIŠOVÁ POTOCKÁ, Elena - UHĽIARIKOVÁ, Iveta - KIS, Peter - KOZMON, Stanislav - MASTIHUBOVÁ, Mária. Reaction mechanism of beta-apiosidase from *Aspergillus aculeatus*. In Food Chemistry, 2019, vol. 274, p. 543-546. (2018: 5.399 - IF, Q1 - JCR, 1.768 - SJR, Q1 - SJR, karentované - CCC). ISSN 0308-8146.
- ADCA30 NAHÁLKA, Jozef\*\*. The role of the protein-RNA recognition code in neurodegeneration. In Cellular and Molecular Life Sciences, 2019, vol. 76, p. 2043-2058. (2018: 7.014 - IF, Q1 - JCR, 3.006 - SJR, Q1 - SJR, karentované - CCC). ISSN 1420-682X.
- ADCA31 PAULOVICHOVÁ, Ema\*\* - PAULOVICHOVÁ, Lucia - FARKAŠ, Pavol - KARELIN, Alexander A. - TSVETKOV, Yury E. - KRYLOV, Vadim B. - NIFANTIEV, Nikolay E.\*\*. Importance of Candida Antigenic Factors: Structure-Driven Immunomodulation Properties of Synthetically Prepared Mannooligosaccharides in RAW264.7 Macrophages. In Frontiers in Cellular and Infection Microbiology, 2019, vol. 9, article no. 378, p. 1-14. (2018: 3.518 - IF, Q2 - JCR, 1.541 - SJR, Q1 - SJR, karentované - CCC). ISSN 2235-2988 (el).
- ADCA32 PAULOVICHOVÁ, Lucia\*\* - PAULOVICHOVÁ, Ema - FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - JANČINOVÁ, Viera - TURÁNEK, J. - PERICOLINI, Eva - GABRIELLI, Elena - VECCHIARELLI, Anna - HRUBIŠKO, M. Bioimmunological activities of *Candida glabrata* cellular mannan. In FEMS Yeast Research, 2019, vol. 19, no. 2, art. no. foz009. (2018: 2.458 - IF, Q2 - JCR, 1.126 - SJR, Q1 - SJR, karentované - CCC). ISSN 1567-1356.
- ADCA33 PAWLIKOWSKA, Ewelina\*\* - JAMES, Steve A. - BREIEROVÁ, Emília - ANTOLAK, Hubert - KREGIEL, Dorota. Biocontrol capability of local *Metschnikowia* sp. isolates. In Antonie van Leeuwenhoek, 2019, vol. 112, p. 1425-1445. (2018: 1.934 - IF, Q3 - JCR, 0.819 - SJR, Q2 - SJR, karentované - CCC). ISSN 0003-6072.
- ADCA34 PENEZIĆ, Ana\*\* - KRIŽÁKOVÁ, Martina, Zámorová - MILJUŠ, Goran - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Diagnostic potential of transferrin glycoforms—a lectin-based protein microarray approach. In Proteomics - Clinical Applications, 2019, vol. 13, art. no. 1800185. (2018: 2.324 - IF, Q3 - JCR, 0.792 - SJR, Q2 - SJR, karentované - CCC). ISSN 1862-8346.
- ADCA35 PUCHART, Vladimír - MørKEBERG KROGH, Kristian B.R. - BIELY, Peter. Glucuronoxylan 3-O-acetylated on uronic acid-substituted xylopyranosyl residues and its hydrolysis by GH10, GH11 and GH30 endoxylanases. In Carbohydrate Polymers, 2019, vol. 205, p. 217-224. (2018: 6.044 - IF, Q1 - JCR, 1.377 - SJR, Q1 - SJR, karentované - CCC). ISSN 0144-8617.
- ADCA36 ROBAJAC, Dragana\*\* - MASNIKOSA, Romana - NEMČOVIČ, Marek - KRIŽÁKOVÁ, Martina, Zámorová - BELICKÁ, Ľudmila, Kluková - BARÁTH, Peter - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Glycoanalysis of the placental membrane glycoproteins throughout placental development. In Mechanisms of Ageing and Development, 2019, vol. 183, article 111151. (2018: 3.603 - IF, Q2 -

- JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). ISSN 0047-6374.
- ADCA37 SOLANKE, Charles Oluremi - TRAPL, Dalibor - ŠUČUR, Zoran - MAREŠKA, Václav - TVAROŠKA, Igor - SPIWOK, Vojtěch\*\*. Atomistic simulation of carbohydrate-protein complex formation: Hevein-32 domain. In Scientific Reports, 2019, vol. 9, article no. 18918. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). ISSN 2045-2322.
- ADCA38 STAŠIOV, Slavomír - KUBOVČÍK, Vladimír - ČILIAK, Marek\*\* - DIVIAKOVÁ, Andrea - LUKÁČIK, Ivan - PÄTOPRSTÝ, Vladimír - DOVCIÁK, Martin. Heterogeneity in millipede communities (Diplopoda) within a forest–forest edge–meadow habitat complex. In Acta Oecologica, 2019, vol. 98, p. 6-13. (2018: 1.478 - IF, Q3 - JCR, 0.682 - SJR, Q2 - SJR, karentované - CCC). ISSN 1146-609X.
- ADCA39 STRATILOVÁ, Barbora - FIRÁKOVÁ, Zuzana, Zemková - KLAUDINY, Jaroslav - ŠESTÁK, Sergej - KOZMON, Stanislav - STROUHALOVÁ, Dana - GARAJOVÁ, Soňa - AIT-MOHAND, Fairouz - HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír - STRATILOVÁ, Eva - HRMOVÁ, Mária\*\*. Engineering the acceptor substrate specificity in the xyloglucan endotransglycosylase TmXET6.3 from nasturtium seeds (*Tropaeolum majus* L.). In Plant Molecular Biology, 2019, vol. 100, no. 1-2, p. 181-197. (2018: 3.928 - IF, Q1 - JCR, 1.705 - SJR, Q1 - SJR, karentované - CCC). ISSN 0167-4412.
- ADCA40 STRELTSOV, Victor A. - LUANG, Sukanya - PEISLEY, Alys - VARGHESE, Joseph N. - KETUDAT CAIRNS, James R. - FORT, Sebastien - HIJNEN, Marcel - TVAROŠKA, Igor - ARDÁ, Ana - JIMÉNEZ-BARBERO, Jesús - ALFONSO-PRIETO, Mercedes - ROVIRA, Carme - MENDOZA, Fernanda - TIESSLER-SALA, Laura - SÁNCHEZ-APARICIO, José-Emilio - RODRÍGUEZ-GUERRA, Jaime - LLUCH, José M. - MARÉCHAL, Jean-Didier - MASGRAU, Laura - HRMOVÁ, Mária\*\*. Discovery of processive catalysis by an exo-hydrolase with a pocket-shaped active site. In Nature Communications, 2019, vol. 10, article no. 2222. (2018: 11.878 - IF, Q1 - JCR, 5.992 - SJR, Q1 - SJR, karentované - CCC). ISSN 2041-1723.
- ADCA41 ŠAMSULOVA, Veronika - POLÁKOVÁ, Monika\*\* - HORÁK, Radim - ŠEDIVÁ, Mária - KVAPIL, Lubomír - HRADIL, Pavel. Synthetic approach to novel glycosyltriazole-3-hydroxyquinolone conjugate and their antimicrobial properties. In Journal of Molecular Structure, 2019, vol. 1177, p. 16-25. (2018: 2.120 - IF, Q3 - JCR, 0.434 - SJR, Q3 - SJR, karentované - CCC). ISSN 0022-2860.
- ADCA42 ŠÍPOŠOVÁ, Kristína - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - VIVODOVÁ, Zuzana, Vatehová\*\*. The effects of IBA on the composition of maize root cell walls. In Journal of Plant Physiology, 2019, vol. 239, p. 10-17. (2018: 2.825 - IF, Q1 - JCR, 1.096 - SJR, Q1 - SJR, karentované - CCC). ISSN 0176-1617.
- ADCA43 TOKIWA, Takaki\*\* - SHOJI, Mitsuo\*\* - SLÁDEK, Vladimír - SHIBATA, Naoki - HIGUCHI, Yoshiki - KATAOKA, Kunishige - SAKURAI, Takeshi - SHIGETA, Yasuteru - MISAIZU, Fuminori. Structural changes of the trinuclear copper center in bilirubin oxidase upon reduction. In Molecules, 2019, vol. 24, no. 1, art. no. 76, 12s. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). ISSN 1420-3049.
- ADCA44 TOKIWA, Takaki - NAKANO, Shogo\*\* - YAMAMOTO, Yuta - ISHIKAWA, Takeshi - ITO, Sohei - SLÁDEK, Vladimír - FUKUZAWA, Kaori - MOCHIZUKI, Yuji - TOKIWA, Hiroaki\*\* - MISAIZU, Fuminori - SHIGETA, Yasuteru\*\*. Development of an analysis toolkit, analysisFMO, to visualize interaction energies generated by fragment molecular orbital calculations. In Journal of Chemical Information and Modeling, 2019, vol. 59, p. 25-30. (2018: 3.966 - IF, Q1 - JCR, 1.446 - SJR, Q1 - SJR, karentované - CCC). ISSN 1549-9596.
- ADCA45 TSIRIGOTIS-MANIECKA, Marta - PAWLACZYK-GRAJA, Izabela\*\* -

- ZIEWIECKI, Rafal - BALICKI, Sebastian - MATULOVÁ, Mária - CAPEK, Peter - CZECHOWSKI, Franciszek - GANCARZ, Roman. The polyphenolic-polysaccharide complex of Agrimonia L. as an indirect thrombin inhibitor - isolation and chemical characterization. In International Journal of Biological Macromolecules, 2019, vol. 125, p. 124-132. (2018: 4.784 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). ISSN 0141-8130.
- ADCA46 VADKERTIOVÁ, Renáta\*\* - SCHUSTEROVÁ, Hana, Dudášová - STRATILOVÁ, Eva - BALAŠČÁKOVÁ, Marta. Diversity of yeasts in the soil adjacent to fruit trees of the Rosaceae family. In Yeast, 2019, vol. 36, p. 617-631. (2018: 2.395 - IF, Q3 - JCR, 0.874 - SJR, Q2 - SJR, karentované - CCC). ISSN 0749-503X.
- ADCA47 XU, Peng\*\* - KORCOVÁ, Jana, Vráblová - BARÁTH, Peter - ČÍŽOVÁ, Alžbeta - VALÁRIKOVÁ, Jana - QADRI, Firdausi - KELLY, Megan - O'CONNOR, Robert D. - RYAN, Edward T. - BYSTRICKÝ, Slavomír - KOVÁČ, Pavol. Isolation, purification, characterization and direct conjugation of the lipid A-free lipopolysaccharide of Vibrio cholerae O139. In Chemistry -A European Journal, 2019, vol. 25, p. 12946-12956. (2018: 5.160 - IF, Q1 - JCR, 1.842 - SJR, Q1 - SJR, karentované - CCC). ISSN 0947-6539.
- ADCA48 ZAJIČKOVÁ, Mária, Spišáková - MONCOL, Ján - ŠESTÁK, Sergej - KÓŇA, Juraj - KOŇA, Miroslav - BELLA, Maroš\*\*. Synthesis of 4a-carba-D-lyxofuranose derivatives and their evaluation as inhibitors of GH38  $\alpha$ -mannosidases. In European Journal of Organic Chemistry, 2019, vol. 2019, p. 1114-1124. (2018: 3.029 - IF, Q2 - JCR, 0.987 - SJR, Q1 - SJR, karentované - CCC). ISSN 1434-193X.
- ADCA49 ZAVAHIR, Sifani - KRUPA, Igor - AL-MAADEED, Sumaya Ali - TKÁČ, Ján - KASÁK, Peter\*\*. Polyzwitterionic hydrogels in engines based on the antipolyelectrolyte effect and driven by the salinity gradient. In Environmental Science and Technology, 2019, vol. 53, p. 9260-9268. (2018: 7.149 - IF, Q1 - JCR, 2.514 - SJR, Q1 - SJR, karentované - CCC). ISSN 0013-936X.

#### ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 BRIESTENSKÁ, Katarína - ŠAMŠULOVÁ, Veronika - POLÁKOVÁ, Monika - MISTRÍKOVÁ, Jela\*\*. Recombinant luciferase-expressing murine gammaherpesvirus 68 as a tool for rapid antiviral screening. In Acta Virologica, 2019, vol. 63, no. 4, p. 439-449. (2018: 0.554 - IF, Q4 - JCR, 0.283 - SJR, Q3 - SJR, karentované - CCC). ISSN 0001-723X.
- ADDA02 DOBIAŠ, Juraj\*\* - ONDRUŠ, Marek - HLAVÁČ, Matúš - MURÁR, Miroslav - KÓŇA, Juraj - ADDOVÁ, Gabriela - BOHÁČ, Andrej. Medicinal chemistry: an effect of a desolvation penalty of an amide group in the development of kinase inhibitors. In Chemical Papers, 2019, vol. 73, p. 71-84. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, karentované - CCC). ISSN 0366-6352.
- ADDA03 PAKANOVÁ, Zuzana\*\* - MATULOVÁ, Mária - UHĽARIKOVÁ, Iveta - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - JURÍČKOVÁ, Katarína - NEMČOVIČ, Marek - PĀTOPRSTÝ, Vladimír - MUCHA, Ján. Case study: monitoring of Glc4 tetrasaccharide in the urine of Pompe patients, use of MALDI-TOF MS, and 1H NMR. In Chemical Papers, 2019, vol. 73, no. 3, p. 701-711. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, karentované - CCC). ISSN 0366-6352.
- ADDA04 UHĽARIKOVÁ, Iveta - CHVÁLOVÁ, Beáta - MATULOVÁ, Mária - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter\*\*. Extracellular biopolymers produced by freshwater cyanobacteria: a screening study. In Chemical Papers, 2019, vol. 73, p. 771-776. (2018: 1.246 - IF, Q3 - JCR, 0.274 - SJR, Q2 - SJR, karentované - CCC). ISSN 0366-6352.

**ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných**

- ADEB01 HURAN, Jozef\*\* - BALALYKIN, Nikolay I. - NOZDRIN, Mikhail A. - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - KOBZEV, A.P. - KOVÁČOVÁ, Eva. Nitrogen-doped carbon-based very thin film on quartz or sapphire substrate as back-side illuminated transmission photocathode. In *Sensors & Transducers*, 2019, vol. 235, iss. 7, p. 9-14. ISSN 2306-8515.

**ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

- ADMA01 HOLLÁ, Veronika - ANTOŠOVÁ, Monika - KARKESZOVÁ, Klaudia - MASTIHUBA, Vladimír - POLAKOVIČ, Milan\*\*. Screening of commercial enzymes for transfructosylation of tyrosol: Effect of process conditions and reaction network. In *Biotechnology Journal*, 2019, vol. 14, no. 8, article number 1800871. (2018: 3.543 - IF, Q1 - JCR, 1.170 - SJR, Q1 - SJR). ISSN 1860-6768.
- ADMA02 KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír\*\*. Enzymatic synthesis of tyrosol and hydroxytyrosol  $\beta$ -D-fructofuranosides. In *Biocatalysis and Biotransformation*, 2019, vol. 37, p. 18-24. (2018: 1.627 - IF, Q3 - JCR, 0.299 - SJR, Q3 - SJR). ISSN 1024-2422.
- ADMA03 KOHUTEK, Filip\*\* - KATRLÍK, Jaroslav - BYSTRICKÝ, Branislav. Hypotension as a symptom of autonomous neuropathy in patients with advanced malignancies. In *Biomedical Papers*, 2019, vol. 163, p. 331-334. (2018: 1.141 - IF, Q4 - JCR, 0.391 - SJR, Q3 - SJR). ISSN 1213-8118.
- ADMA04 KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - LORENCOVÁ, Lenka - JERIGOVÁ, Monika - VELIČ, Dušan - BLIXT, Ola - JANSSEN, Bo - KASÁK, Peter\*\* - TKÁČ, Ján\*\*. A graphene-based glycan biosensor for electrochemical label-free detection of a tumor-associated antibody. In *Sensors*, 2019, vol. 19, iss. 24, art. no. 5409. (2018: 3.031 - IF, Q1 - JCR, 0.592 - SJR, Q2 - SJR). ISSN 1424-8220.
- ADMA05 MATULOVÁ, Mária - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - MINGYAR, Erik - CSÖLLEIOVÁ, Dominika - ZDURIENČÍKOVÁ, Martina - PĀTOPRSTÝ, Vladimír - SASINKOVÁ, Vlasta - UHĽIARIKOVÁ, Iveta - ŠEVČÍKOVÁ, Beatrice - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - KORMANEC, Ján\*\*. A structural analysis of the angucycline-like antibiotic auricin from *Streptomyces lavendulae* subsp. *lavendulae* CCM 3239 revealed its high similarity to griseusins. In *Antibiotics*, 2019, vol. 8, no. 3, no. E102. (2018: 2.921 - IF, Q2 - JCR, 1.121 - SJR, Q1 - SJR). ISSN 2079-6382.
- ADMA06 ŠUNDERIĆ, Miloš\*\* - KRIŽÁKOVÁ, Martina, Zámorová - MALENKOVIĆ, Vesna - ČUJIĆ, Danica - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Changes due to ageing in the glycan structure of alpha-2-macroglobulin and its reactivity with ligands. In *Protein Journal*, 2019, vol. 38, p. 23-29. (2018: 1.029 - IF, Q4 - JCR, 0.363 - SJR, Q3 - SJR). ISSN 1572-3887.
- ADMA07 TKÁČ, Ján\*\* - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Glycomics of prostate cancer: updates. In *Expert Review of Proteomic*, 2019, vol. 16, p. 65-76. (2018: 2.963 - IF, Q2 - JCR, 0.946 - SJR, Q2 - SJR). ISSN 1478-9450.
- ADMA08 TKÁČ, Ján\*\* - GAJDOŠOVÁ, Veronika - HROŇČEKOVÁ, Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - KASÁK, Peter. Prostate-specific antigen glycoprofiling as diagnostic and prognostic biomarker of prostate cancer. In *Interface Focus*, 2019, vol. 9, art. no. 20180077. (2018: 3.092 - IF, Q1 - JCR, 1.138 - SJR, Q1 - SJR). ISSN 2042-8898.

### ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMB01 BERTÓK, Tomáš - LORENCOVÁ, Lenka - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika - JÁNĚ, Eduard - HÍREŠ, Michal - KASÁK, Peter\*\* - KAMAN, Ondrej - SOKOL, Roman - BELLA, Vladimír - ECKSTEIN ANDICSOVÁ, Anita - MOSNÁČEK, Jaroslav - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján\*\*. Synthesis and characterization of Au nanoshells with a magnetic core and betaine derivatives. In *MethodsX*, 2019, vol. 6, p.1999-2012. (2018: 0.478 - SJR, Q2 - SJR). ISSN 2215-0161.
- ADMB02 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - TKÁČ, Ján\*\*. Glycan-modified interfaces in biosensing: an electrochemical approach. In *Current Opinion in Electrochemistry*, 2019, vol. 14, p. 60-65. (2018: 1.354 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2451-9103.
- ADMB03 KOH, Sangho - IMAMURA, Seika - FUJINO, Naoto - MIZUNO, Masahiro\*\* - SATO, Nobuaki - MAKISHIMA, Satoshi - BIELY, Peter - AMANO, Yoshihiko. Characterization of acetylxylenol esterase from white-rot fungus *Irpex lacteus*. In *Journal of Applied Glycoscience*, 2019, vol. 66, p. 131-137. ISSN 1880-7291.

### AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 HURAN, Jozef - BALALYKIN, Nikolay I. - NOZDRIN, Mikhail A. - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - KOBZEV, Aexander P. - KOVÁČOVÁ, Eva. Nitrogen-doped carbon-based very thin film on quartz or sapphire substrate as black-side illuminated transmission photocatode. In *YURISH, Sergey Y. (ed.). Proceedings of the 2nd International Conference on Microelectronic Devices and Technologies (MicDAT '2019), May 22-24, 2019, Amsterdam, The Netherlands*. - Barcelona : IFSA Publishing, S.L., 2019, p. 29-32. ISBN 978-84-09-11679-9.
- AFC02 KUČEROVÁ, Danica, Richterová - LABANCOVÁ, Eva - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin. Vzťah medzi rastom, koncentraciou fotosyntetických a minerálnych prvkov v bunkách kalusu topol'a v prítomnosti antimónu a kremíka = The relationship between growth, the concentration of photosynthetic pigments and the concentration of nutrients in poplar callus cells in the presence of antimony and silicon. In *Vliv abiotických a biotických stresorů na vlastnosti rostlin 2019 : sborník recenzovaných vědeckých prací*. Editor Věra Kožnarová ; recenzenti Jan Novák, Jana Šlégrová. - Praha ; Zvolen : Česká zemědělská univerzita : Ústav ekologie lesa SAV, 2019, s. 77-80. ISBN 978-80-89408-35-1.(Vliv abiotických a biotických stresorů na vlastnosti rostlin 2019).
- AFC03 LABANCOVÁ, Eva - VOJTEKOVÁ, Kristína - KUČEROVÁ, Danica, Richterová - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin. Vplyv galaktoglukomannanových oligosacharidov na distribúciu a akumuláciu oxidu dusnatého a peroxidu vodíka v koreňoch rastlín vystavených kadmiumu = The influence of galactoglucomanan oligosaccharides on the distribution and accumulation of nitric oxide and hydrogen peroxide in plant roots exposed to cadmium. In *Vliv abiotických a biotických stresorů na vlastnosti rostlin 2019 : sborník recenzovaných vědeckých prací*. Editor: Věra Kožnarová ; recenzenti: Jan Novák, Jana Šlégrová. - Praha ; Zvolen : Česká zemědělská univerzita : Ústav ekologie lesa SAV, s. 88-91. ISBN 978-80-213-2949-2.
- AFC04 REMEŠ, Zdeněk - CHANG, Yu-Ying - STUHLÍK, Jiří - MÍČOVÁ, Júlia. The photoluminescence and optical absorptance of plasma hydrogenated nanocrystalline

ZnO thin films. In NANOCON 2018 - Conference Proceedings: 10th Anniversary International Conference on Nanomaterials - Research and Application, October 17-19, 2018, Brno, Czech Republic. - Ostrava : Tanger Ltd., 2019, p. 78-82.

#### AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 BENKO, Mário - NEMČOVIČ, Marek - NEMČOVIČOVÁ, Ivana. Preliminary crystallization of cytomegalovirus UL144 glycan-deficient mutein recombinantly produced in baculovirus-insect expression system. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 45-50. ISBN 978-80-223-4711-2.
- AFD02 BOŤANSKÁ, Barbora - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BARANČÍK, Miroslav. Vplyv glykofenolík na toxické účinky doxorubicínu v obličkových bunkách HEK 293. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 55-60. ISBN 978-80-223-4711-2.
- AFD03 DUJNÍČ, Viera, Hrivnáková - PANČÍK, Filip - ČÍŽOVÁ, Alžbeta - VALÁRIKOVÁ, Jana - BYSTRICKÝ, Slavomír - BARÁTH, Peter - VLČKOVÁ, Silvia. Štruktúrna analýza O-špecificky viazaných sacharidov z baktérie *Vibrio cholerae* O139. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 678-682. ISBN 978-80-223-4711-2.
- AFD04 DUJNÍČ, Viera, Hrivnáková - PANČÍK, Filip - PÄTOPRSTÝ, Vladimír - KOLEK, Emil. Identifikácia vonných a chuťových látok v kvetoch rastliny *Siraitia grosvenori* pomocou metód SPME/GC-MS. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 672-677. ISBN 978-80-223-4711-2.
- AFD05 HORVÁTHOVÁ, Ágnes - STRATILOVÁ, Barbora - FARKAŠ, Vladimír - STRATILOVÁ, Eva. Testovanie inhibičného účinku komerčných antifungálnych látok na enzým xyloglukánendotransglykozyláza (XET). In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 724-729. ISBN 978-80-223-4711-2.
- AFD06 HORVÁTHOVÁ, Ágnes - STRATILOVÁ, Barbora - STRATILOVÁ, Eva. Lokalizácia inkorporácie oligogalakturónových kyselín v podzemnej časti rastliny *Tropaeolum majus*. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 730-735. ISBN 978-80-223-4711-2.
- AFD07 HRICOVÍNIOVÁ, Jana - GÁBELOVÁ, Alena - HRICOVÍNIOVÁ, Zuzana - KOZICS, Katarína. An insight into biological activities of new series of quinazolinones: structure-activity relationship study. In Genetic toxicology and

- cancer prevention : Bilateral Czech and Slovak Workshop. Editors: Alena Gábelová, Monika Šramková. - Bratislava : Cancer Research Institute, Biomedical Research Center SAS, 2019, p. 47-51. ISBN 978-80-972247-4-5.
- AFD08 HRICOVÍNIOVÁ, Jana - KOZICS, Katarína - HRICOVÍNIOVÁ, Zuzana. Evaluation of antioxidant potential and in vitro cytotoxicity of new quinazolinone derivatives. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 221-226. ISBN 978-80-223-4711-2.
- AFD09 HURAN, Jozef - HRUBČÍN, Ladislav - BOHÁČEK, Pavol - SKURATOV, V.A. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - KOBZEV, A.P. - KOVÁČOVÁ, Eva. The effect of Xe ion irradiation on the properties of SiC(P) and SiC(B) film prepared by PECVD technology. In ADEPT 2019 : 7th International Conference on Advances in Electronic and Photonic Technologies. Editors: D. Jandura, Ľ. Šušlik, P. Urbancová, J. Kováč Jr. - Žilina, Slovakia : University of Žilina, 2019, p. 155-158. ISBN 978-80-554-1568-0.
- AFD10 HURAN, Jozef - BALALYKIN, Nikolay I. - SASINKOVÁ, Vlasta - NOZDRIN, Mikhail A. - KOVÁČOVÁ, Eva - KOBZEV, A.P. - KLEINOVÁ, Angela. Raman spectroscopy study of carbon-based very thin films prepared by magnetron sputtering. In ADEPT 2019 : 7th International Conference on Advances in Electronic and Photonic Technologies. Editors: D. Jandura, Ľ. Šušlik, P. Urbancová, J. Kováč Jr. - Žilina, Slovakia : University of Žilina, 2019, p. 285-288. ISBN 978-80-554-1568-0.
- AFD11 JAKUBČINOVÁ, Jana - BARÁTH, Marek. Fosforylácia vybraných 2-tiofuranóz. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 753-757. ISBN 978-80-223-4711-2.
- AFD12 JAKUBČINOVÁ, Jana - BARÁTH, Marek. O-sulphation of different substituted 2-thio-fructofuranoses. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 748-752. ISBN 978-80-223-4711-2.
- AFD13 JURČÍK, Ján - SIVÁKOVÁ, Barbara - BARÁTH, Peter - ČIPÁK, Ľuboš. Quantitative phosphoproteomic analysis of CDC2 kinase substrates. In Fakulta chemickej a potravinárskej technológie STU. Chémia a technológie pre život : 21. celoslovenská študentská vedecká konferencia s medzinárodnou účasťou. Editori: Milena Reháková, Juraj Oravec. - Bratislava : Slovenská chemická knižnica, 2019, s. 329-330. ISBN 978-80-8208-015-8.
- AFD14 KOSZAGOVÁ, Romana, Repiská - NAHÁLKA, Jozef. Recyklácia aktívnych inklúzných teliesok: centrifugácia verzus magnetická modifikácia. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 779-784. ISBN 978-80-223-4711-2.
- AFD15 LABANCOVÁ, Eva - KOLLÁROVÁ, Karin. Pretreatment with Cd increases poplar callus tolerance. In Zborník prác. Celoslovenská študentská vedecká konferencia študentov 1., 2. a 3. stupňa vysokoškolského štúdia Aplikované prírodné vedy 2019. 10. apríl 2019, Trnava. Editor Martin Valica. - Trnava : Univerzita sv. Cyrila a Metoda v Trnave, 2019, s. 179-184. ISBN 978-80-8105-994-0.

- AFD16 LABANCOVÁ, Eva - KOLLÁROVÁ, Karin - ŠÍPOŠOVÁ, Kristína - VADKERTIOVÁ, Renáta - LIŠKOVÁ, Desana. Do yeasts have a plant-growth promoting effect? In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 338-343. ISBN 978-80-223-4711-2.
- AFD17 STRATILOVÁ, Barbora - KOZMON, Stanislav. Stabilita reakčného komplexu špecifickej a nešpecifickej xyloglukánendotransglykozylázy (XET) s lineárnymi oligosacharidmi ako akceptormi transglykozylačnej reakcie. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 949-954. ISBN 978-80-223-4711-2.
- AFD18 STRATILOVÁ, Barbora - ŠESTÁK, Sergej - HORVÁTHOVÁ, Ágnes - KOZMON, Stanislav - STRATILOVÁ, Eva. Vplyv mutácií H94Q, Q108R a K237S na špecifitu majoritnej formy xyloglukánendotransglykozylázy z *Tropaeolum majus*. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori: Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 943-948. ISBN 978-80-223-4711-2.
- AFD19 STUPEŇOVÁ, Erika - JURČÍK, Ján - SIVÁKOVÁ, Barbara - BARÁTH, Peter - ČIPÁK, Ľuboš. Príprava kondičnej na ATP analógy citlivej alely esenciálnej CKA1 proteínkinázy. In Fakulta chemickej a potravinárskej technológie STU. Chémia a technológie pre život : 21. celoslovenská študentská vedecká konferencia s medzinárodnou účasťou. Editori: Milena Reháková, Juraj Oravec. - Bratislava : Slovenská chemická knižnica, 2019, s. 313-314. ISBN 978-80-8208-015-8.
- AFD20 ŠÍPOŠOVÁ, Kristína - LABANCOVÁ, Eva - KOLLÁROVÁ, Karin - VIVODOVÁ, Zuzana, Vatehová. Vplyv kyseliny indolyl-3-maslovej (IBA) na rast koreňov a nadzemných častí kukurice siatej (*Zea mays* L.) v podmienkach abiotického stresu. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 530-535. ISBN 978-80-223-4711-2.
- AFD21 VOJTEKOVÁ, Kristína - LABANCOVÁ, Eva - KUČEROVÁ, Danica, Richterová - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin. Vplyv galaktoglukomannánových oligosacharidov na distribúciu a akumuláciu oxidu dusnatého v koreňoch rastlín vystavených kadmii. In Študentská vedecká konferencia PriF UK 2019: Zborník recenzovaných príspevkov, 9. apríl 2019, Bratislava. Editori Michal Galamboš, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského vo Vydavateľstve UK, 2019, s. 601-606. ISBN 978-80-223-4711-2.

#### AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

- AFE01 HRICOVÍNI, Michal. The spectroscopic and DFT analysis of photochemical processes of quinazolinone-derived Schiff bases. In KAYAHAN, Ersin - ORAL, Ahmet Yavuz- AKÖZ, Mehmet Emre - AKSAN, Onur Alp - ÇINAR, İbrahim (eds.). Book of Abstracts: 2nd International Conference of Photonics Research (INTERPHOTONICS 2019), November 4-9, 2019, Kemer/Antalya, Turkey. - Yeniköy : Kocaeli University, 2019, p. 107.
- AFE02 KATRLÍK, Jaroslav. Lectin-based biosensing for medicine and biotechnology. In



- AFE03 Journal of Biotechnology, 2019, vol. 305, supplement (Abstracts: European Biotechnology Congress, April 11-13, 2019, Valencia, Spain. ISSN 0168-1656. KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina, Zámorová - PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Screening of protein glycosylation by lectin-based protein microarray. In Abstract Book: Spot your future MMM Workshop 2019, September 30 - October 1, 2019, Vienna, Austria. - Berlin : M24You GmbH, 2019, p. 33.
- AFE04 LUX, Alexander - VACULÍK, Marek - MARTINKA, Michal - KOCHANOVÁ, Jana - LUKAČOVÁ, Zuzana - BOKOR, Boris - WHITE, Philip J. - TAO, Qi - LI, Tingqiang. Checkpoints of transport processes in plants exposed to toxic levels of trace elements and/or toxic elements. In Abstract Book: 15th International Conference on the Biogeochemistry of Trace Elements (ICOBTE), May 5-9, 2019, Nanjing, China. - Nanjing : Nanjing Agricultural University, p. S5-276.

#### AFF Abstrakty pozvaných príspevkov z domácich konferencií

- AFF01 FRECER, Vladimír - MIERTUŠ, Stanislav - BREN, Urban - ŠEBESTA, Radovan - HLASOVÁ, Zuzana - ONDREJOVIČ, Miroslav - KATRLÍK, Jaroslav. Design and development of potential new drugs against influenza A virus. In Book of Abstracts: Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava. Editori: Daniela Chmelová, Ondrejovič Miroslav. - Trnava : University of SS. Cyril and Methodius in Trnava, 2019, p. 35-36. ISBN 978-80-8105-996-4.
- AFF02 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - JÁNÉ, Eduard - HÍREŠ, Michal - KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika. New biomarkers and biosensors for early detection of cancer. In CHMELOVÁ, Daniela - ONDREJOVIČ, Miroslav (eds.). Book of Abstracts: Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava, Slovakia. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2019, p. 32-33. ISBN 978-80-8105-996-4.
- AFF03 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - JÁNÉ, Eduard - HÍREŠ, Michal - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika. Využitie glykánov v diagnostike rakoviny. In GAVURNÍKOVÁ, Gabriela (ed.). Zborník abstraktov z konferencie Biochemické dni 2019, 21.-24. september 2019, Horný Smokovec, Slovensko. - Bratislava : Centrum vedecko-technických informácií SR, 2019, s. 64. ISBN 978-80-89965-27-4.

#### AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 AGUEDO, Juvissan - PAKANOVÁ, Zuzana - TKÁČ, Ján. Glycobiomarkers for diagnostics and monitoring of colorectal cancer. In Proceedings: European Summit of Industrial Biotechnology (esib/2019), November 18-20, 2019, Graz, Austria. - Graz : acib GmbH, 2019, p. 92.
- AFG02 BARÁTH, Peter. Modified serum glycome in novel ALG12-CDG patient. In Abstract Booklet: Instruct Biennial Structural Biology Conference, May 22-24, 2019, Alcalá de Henares, Madrid, Spain. Oxford, UK. - Oxford UK : Instruct-ERIC Hub, 2019, p. 149.
- AFG03 BARÁTH, Peter - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - PAKANOVÁ, Zuzana - ŠESTÁK, Sergej - BELLOVÁ, Jana - ŠALINGOVÁ, Anna - TEKELYOVÁ, Alexandra - SKOKŇOVÁ, Martina - BRUCKNEROVÁ, Ingrid - ŠEBOVÁ, Claudia - MUCHA, Ján. New homozygous mutation in ALG12 gene resulted in CDG-I

- disorder in newborn patient. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy. - Heidelberg : Springer, 2019, vol. 36, no. 4, p. 303. ISSN 0282-0080.
- AFG04 BOŤANSKÁ, Barbora - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BARANČÍK, Miroslav. Vplyv glykofenolík na toxické účinky doxorubicínu v obličkových bunkách HEK 293. In 95. Fyziologické dny : Sborník. - Praha : 3. Lékařská fakulta UK, 2019, p. 5-6.
- AFG05 BURYI, Maksym - BABIN, Vladimír - MIČOVÁ, Júlia - REMEŠ, Zdeněk. Influence of precursors and growth conditions on defect states in ZnO nanorods. In Extended Abstracts Book: SURFINT-SREN VI: Progress in Applied Surface, Interface and Thin Film Science 2019, November 18-21, 2019, Florence, Italy. - Bratislava : Comenius University, 2019, p. 18-19. ISBN 978-80-223-4811-9.
- AFG06 DOVINOVÁ, Ima - HRABÁROVÁ, Eva - JANSEN, Eugene. Exogenous NOS inhibitor 7-NI influence ADMA production and improve redox status in plasma of spontaneously hypertensive rats. In Free Radical Biology and Medicine, 2018, vol. 124, p. 567-568. (2017: 6.020 - IF, Q1 - JCR, 2.178 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0891-5849.
- AFG07 GARDINER, John - MILLER, Gavin - HANSEN, Steen - JEANNERET, Robin - DALTON, Charlotte - BARÁTH, Marek. Synthesis and applications of heparin-like oligosaccharide fragments. In Book of Abstracts: Eurocarb XX, June 30 - July 4, 2019, Leiden. - The Netherlands Leiden : Leiden University, 2019, p. KL9.4.
- AFG08 HAMMEROVÁ, Zuzana - HOUSER, Jozef - KOZMON, Stanislav - MISHRA, Deepti C. - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Interactions of carbohydrate and aromatic amino acid in protein binding sites. In FEBS Open Bio (Supplement: 44th FEBS Congress, From Molecules to Living Systems). - Krakow, Poland, 2019, vol. 9, suppl. 1, p. 251-252. ISSN 2211-5463.
- AFG09 HLASOVÁ, Zuzana - MIERTUŠ, Stanislav - ONDREJOVIČ, Miroslav - KATRLÍK, Jaroslav. Lectin-based method for evaluation of neuraminidase activity and its inhibitor. In ŘÁPKOVÁ, Radmila - FUSEK, Martin - DRAŠAR, Pavel (eds.). Lectin-based method for evaluation of neuraminidase activity and its inhibitors. In: Czech Chemical Society Symposium Series. XIX. Interdisciplinary Meeting of Young Biologist, Biochemists and Chemists, May 20 - 23, 2019, Devět Skal, Milovy, Czech Republic. - Praha : Česká společnost chemická, 2019, roč. 17, č. 1, s. 11-12. ISSN 2336-7202.
- AFG10 HOUSER, Josef - KOZMON, Stanislav - MISHRA, Deepti C. - HAMMEROVÁ, Zuzana - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Bioinformatics and in vitro quantification of CH- $\pi$  interaction in protein carbohydrate binding. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy). - Heidelberg : Springer, 2019, vol. 36, no. 9, p. 385. ISSN 0282-0080.
- AFG11 HRICOVÍNÍ, Michal - HRICOVÍNÍ, Miloš. Theoretical analysis of molecular structure and NMR spin-spin coupling constants in sulphated oligosaccharides. In Abstract Booklet: Instruct Biennial Structural Biology Conference, May 22-24, 2019, Alcalá de Henares, Madrid, Spain. - Oxford, UK : Instruct-ERIC Hub., 2019, p. 139.
- AFG12 HRICOVÍNÍ, Michal - HRICOVÍNÍ, Miloš. Complex 3D structure of the new type glycoconjugate linked to quinazolinone core. In Poster Abstracts: Eurocarb XX, June 30 - July 4, 2019, Leiden, The Netherlands. - Leiden, Holandsko : Leiden University, 2019, p. P97. (EUROCARB : European Carbohydrate Symposium).
- AFG13 HRICOVÍNIOVÁ, Jana - ŠEVČOVIČOVÁ, Andrea - HRICOVÍNIOVÁ, Zuzana. New unnatural gallotannins: synthesis and evaluation of biological activity using various in vitro assays. In Poster Abstracts: Eurocarb XX, June 30 - July 4, 2019,

- AFG14 Leiden, The Netherlands. - Leiden, Holandsko : Leiden University, 2019, p. P98.  
KATRLÍK, Jaroslav - KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICÁ, Jana - KOLLÁROVÁ, Dagmar - KIM, Seonghun. Glycoprofiling of sera of children with attention-deficit hyperactivity disorder (ADHD) by lectin-based protein microarray. In Program and Abstract Book: 11th ACGG Conference, November 11-14, 2019, Haeundae Busan, Korea. - Busan : Asian Community of Glycoscience and Glycotechnology, 2019, p. 173.
- AFG15 KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KRIŽÁKOVÁ, Martina, Zámorová - PAKANOVÁ, Zuzana - BARÁTH, Peter - KIM, S. - BYSTRICKÝ, Branislav. Determination of serum proteins glycosylation in cancer before and after the treatment: lectin-based protein microarray and maldi-tof ms approaches. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy). - Heidelberg : Springer, 2019, vol. 36, no. 4, p. 330. ISSN 0282-0080.
- AFG16 KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina, Zámorová - PAŽITNÁ, Lucia - BYSTRICKÝ, Branislav. Lectin-based protein microarray: tool for determination of glycosylation changes related to cancer and other diseases. In Proceedings: 8th Global Reverse Phase Protein Array Workshop (RPPA 2019), March 24-25, 2019, Tokyo, Japan. - Tokyo : National Cancer Center, 2019, p. 74-75.
- AFG17 KOLLÁROVÁ, Karin - KUČEROVÁ, Danica, Richterová - VIVODOVÁ, Zuzana, Vatehová - LABANCOVÁ, Eva - ŠÍPOŠOVÁ, Kristína - LIŠKOVÁ, Desana. Effects of silicon on physiological characteristics of poplar callus cells under antimony treatment. In Plant Biology CS 2019. Programme and Book of Abstracts. Student Days, August 25-26, 2019 and General Conference, August 27-30, 2019 : Bulletin České společnosti experimentální biologie rostlin a Fyziologické sekce Slovenské botanické společnosti. - České Budějovice : Česká společnost experimentální biologie rostlin, 2019, roč. 2019, č. 1, s. 267. ISSN 1213-6670.
- AFG18 KRONEKOVÁ, Zuzana - MAJERČÍKOVÁ, Monika - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - KRONEK, Juraj. Poly(2-isopropenyl-2-oxazoline) for immunotherapeutical applications. In Polymers 2019 : 19th Symposium : book of abstracts. - Burgas, Bulgaria : Institute of Polymers - BAS, 2019, p. 78.
- AFG19 KRONEKOVÁ, Zuzana - MAJERČÍKOVÁ, Monika - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - KRONEK, Juraj. Poly(2-isopropenyl-2-oxazoline) for immunotherapeutical applications. In Annual Fall Meeting. - Jeju : The Polymer Society of Korea, 2019, vol. 44, no.2, p. 80. ISSN 2384-0307.
- AFG20 KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - VIVODOVÁ, Zuzana, Vatehová - LABANCOVÁ, Eva - LIŠKOVÁ, Desana. The effects of silicon on arsenic-treated poplar callus cells in the view of principal component analysis. In Plant Biology CS 2019. Programme and Book of Abstracts. Student Days, August 25-26, 2019 and General Conference, August 27-30, 2019 : Bulletin České společnosti experimentální biologie rostlin a Fyziologické sekce Slovenské botanické společnosti. - České Budějovice : Česká společnost experimentální biologie rostlin, 2019, roč. 19, č. 1, s. 269. ISSN 1213-6670.
- AFG21 LABANCOVÁ, Eva - KOLLÁROVÁ, Karin - ŠÍPOŠOVÁ, Kristína - VADKERTIOVÁ, Renáta - LIŠKOVÁ, Desana. The effects of Papiliotrema terrestris on maize cultivated in vitro in different conditions. In Plant Biology CS 2019. Programme and Book of Abstracts. Student Days, August 25-26, 2019 and General Conference, August 27-30, 2019 : Bulletin České společnosti experimentální biologie rostlin a Fyziologické sekce Slovenské botanické společnosti. - České Budějovice : Česká společnost experimentální biologie rostlin, 2019, roč. 2019, č. 1, s. 113. ISSN 1213-6670.

- AFG22 LUX, Alexander - KOHANOVÁ, Jana - BOKOR, Boris - VACULÍK, Marek - LICHTSCHEIDL, Irene - SOUKUP, Milan - ŠVEC, Miroslav. Silicification of root tissues during their development. In Hronková Marie, Šantrůček Jiří (eds.). Bulletin České společnosti experimentální biologie rostlin a Fyziologické sekce Slovenské botanické společnosti (Programme and Book of Abstracts: Plant Biology CS 2019, August 25-30, 2019, České Budějovice, Czech Republic). - České Budějovice : Česká společnost experimentální biologie rostlin, 2019, roč. 2019, č. 1, s. 235. ISSN 1213-6670.
- AFG23 LU, Xiaoling - MUNIEF, Walid Madhat - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - PACHAURI, Vivek - INGEBRANDT, Sven. Top-down fabricated reduced graphene oxide thin-films as functional layer for surface plasmon based biosensing. In Book of Abstracts: 2nd European Biosensor Symposium (EBS 2019), Florence, 18-21 February 2019. - Florence : University of Florence, 2019, p. 199.
- AFG24 MILJUŠ, Goran - PENEZIĆ, Ana - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Glycosylation of the human serum transferrin as a biomarker of healthy ageing. In SPASOJEVIĆ, Ivan (ed.). Proceedings: Serbian Biochemical Society Ninth Conference "Diversity in Biochemistry", November 14-16, 2019, Belgrade, Serbia. - Belgrade : Faculty of Chemistry, Serbian Biochemical Society, p. 132.
- AFG25 PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - MUCHA, Ján - ZIBUROVÁ, Jana - BARÁTH, Peter. New approaches in the diagnostics of disorders of glycoconjugate metabolism. In Poster Abstracts: COST Clinimark Training School, September 23-27, 2019, Spetses Hotel, Spetses Island, Greece. - Athens : Biomedical Research Foundation, 2019, p. 29, poster 22.
- AFG26 PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Glycan analysis of serum glycoproteins of patients on peritoneal dialysis by lectin-based microarray. In Rápková Radmila, Fusek Martin, Drašar Pavel (eds.). Czech Chemical Society Symposium Series. XIX. Interdisciplinary Meeting of Young Biologist, Biochemists and Chemists, May 20 - 23, 2019, Devět Skal, Milovy, Czech Republic. - Praha : Česká společnost chemická, 2019, roč. 17, č. 1, s. 29-30. ISSN 2336-7202.
- AFG27 PENEZIĆ, Ana - ROBAJAC, Dragana - MILJUŠ, Goran - GLIGORIJEVIĆ, Nikola - BARALIĆ, Marko - PAŽITNÁ, Lucia - ŠUNDERIĆ, Miloš - DOBRIJEVIĆ, Zorana - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Serum transferrin glycopattern in patients with an end-stage renal disease: a lectin-based protein microarray. In SPASOJEVIĆ, Ivan (ed.). Proceedings: Serbian Biochemical Society Ninth Conference "Diversity in Biochemistry", November 14-16, 2019, Belgrade, Serbia. - Belgrade : Faculty of Chemistry, Serbian Biochemical Society, p. 145.
- AFG28 PEVALA, Vladimír - KUNOVÁ, Nina - KOTRASOVÁ, Veronika - KERESZTESOVÁ, Barbora - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - AMBRO, Ľuboš - BELLOVÁ, Jana - MARTINÁKOVÁ, Lucia - TRUBAN, Dominika - KOŠŤAN, Július - BRANDSTETTER, Marlene - MARINI, Victoria - KREJČÍ, Lumír - TOMÁŠKA, Ľubomír - NOSEK, Jozef - KUTEJOVÁ, Eva. Candida parapsilosis Mgm101 in the maintenance of mitochondrial telomeres. In Abstract Booklet: Instruct Biennial Structural Biology Conference, May 22-24, 2019, Alcalá de Henares, Madrid, Spain. - Oxford, UK : Instruct-ERIC Hub, 2019, p. 105.
- AFG29 REMEŠ, Zdeněk - CHANG, Yu Ying - NEYKOVA, Neda - BURYI, Maksym - MIČOVÁ, Júlia. The optical properties of metal oxide nanorods. In RYTEL, Agnieszka (ed.). E-MRS Conference Programme - Fall Meeting 2019, September 16-19, 2019, Warsaw, Poland. - Warsaw : Warsaw University of Technology, 2019,

- p. P1.21.
- AFG30 SCHUSTEROVÁ, Hana, Dudášová - VADKERTIOVÁ, Renáta. Yeast enzymatic activities important for nature and industry. In Conference Proceedings: XXXVIII Annual Meeting ECCO 2019, 12-14 June, 2019, Torino, Italy. - Torino, Italy : Department of Life Sciences and Systems Biology Mycotheca Universitatis Tarinensis, Turin Znuversity Culture Collection, 2019, p. 102-103.
- AFG31 SILIKOVÁ, Veronika - DULANSKÁ, Silvia - HORNÍK, Miroslav - MÁTEL, Ľubomír - JAKUBČINOVÁ, Jana. Determination of <sup>137</sup>Cs using non-commercial impregnated fly ash sorbent. In Book of Abstracts: ENVIRA 2019 - 5th International Conference on Environmental Radioactivity: Variations of Environmental Radionuclides, 8-13 September 2019, Prague, Czech Republic. - Prague : Nuclear Physics Institute of the CAS, 2019, p. 117, ID 154.
- AFG32 STRATILOVÁ, Barbora - ŠESTÁK, Sergej - KOZMON, Stanislav - HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír - HRMOVÁ, Mária - STRATILOVÁ, Eva. Acceptor specificity of xyloglucan endotransglycosylases. In Abstract Book: XV. Cell Wall Meeting, 7-12 July 2019, Cambridge, United Kingdom. - Cambridge, UK : University of Cambridge, 2019, p. 229-230.
- AFG33 STRATILOVÁ, Barbora - GARAJOVÁ, Soňa - ŠESTÁK, Sergej - VADINOVÁ, Kristína, Kováčová - KOZMON, Stanislav - KUČEROVÁ, Danica, Richterová - HRMOVÁ, Mária - STRATILOVÁ, Eva. Could xyloglucan endotransglycosylases transfer the cleavage fragments of xyloglucan or cellulose on the acceptor substrates with ionic properties? In Abstract Book: XV. Cell Wall Meeting, 7-12 July 2019, Cambridge, United Kingdom. - Cambridge, UK : University of Cambridge, 2019, p. 231-232.
- AFG34 ŠÍPOŠOVÁ, Kristína - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - VIVODOVÁ, Zuzana, Vatehová. Effects of auxin on the plant growth and the cell wall root architecture in maize (*Zea mays* L.). In Plant Biology CS 2019. Programme and Book of Abstracts. Student Days, August 25-26, 2019 and General Conference, August 27-30, 2019 : Bulletin České společnosti experimentální biologie rostlin a Fyziologické sekce Slovenské botanické společnosti. - České Budějovice : Česká společnost experimentální biologie rostlin, 2019, roč. 2019, č. 1, s. 169. ISSN 1213-6670.
- AFG35 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - JÁNÉ, Eduard - HÍREŠ, Michal - KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - HRONČEKOVÁ, Štefánia - GAJDOŠOVÁ, Veronika. Cancer diagnostics using glycan recognition by the electrochemical biosensors with design controlled at nanoscale. In Book of Abstracts: 2nd European Biosensor Symposium (EBS 2019), February 18-21, 2019, Florence, Italy. - Florence : University of Florence, 2019, p. 84, OC39.
- AFG36 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka. Lectin-based glycoprofiling of a prostate specific antigen for accurate prostate cancer diagnostics. In Glycoconjugate Journal (Abstracts: Glyco 25: XXV International Symposium on Glycoconjugates, August 25-31, 2019, Milano, Italy). - Heidelberg : Springer, 2019, vol. 36, no. 4, p. 371. ISSN 0282-0080.
- AFG37 UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - CAPEK, Peter - CEPÁK, Vladislav. PS-3 isoaltion and fractionation of exopolysaccharide produced by cyanobacterium *Nostoc* sp. In USB: 16th International Interdisciplinary Meeting on Biocatalysis (CECE2019), September 24-26, 2019, Gdańsk, Poland. - Gdańsk : Medical University of Gdańsk, 2019, p. 7.
- AFG38 VADKERTIOVÁ, Renáta - SCHUSTEROVÁ, Hana, Dudášová - STRATILOVÁ, Barbora - HORVÁTHOVÁ, Ágnes - STRATILOVÁ, Eva. Diversity of yeasts isolated from plants in Slovakia. In Conference Proceedings: XXXVIII Annual Meeting ECCO 2019, 12-14 June, 2019, Torino, Italy. - Torino, Italy : Department

of Life Sciences and Systems Biology Mycotheca Universitatis Tarinensis, Turin  
Znuversity Culture Collection, 2019, p. 100-101.

### AFH Abstrakty príspevkov z domácich konferencií

- AFH01 AGUEDO, Juvisan - TKÁČ, Ján. Colorectal cancer glycoprofiling and potential biomarkers. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 137. ISSN 1336-7242.
- AFH02 BIELY, Peter - FRAŇOVÁ, Lucia - PUCHART, Vladimír. Enzymes of *Aureobasidium* strains for proliferation on wood. In Vadkertiová Renáta, Dudášová Hana (eds.). Program and Abstracts: 46th Annual Conference on Yeasts, May 7-10, 2019, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Institute of Chemistry, Slovak Academy of Sciences and Commission on Yeasts of the Czechoslovak Society of Microbiology, 2019, p. 29. ISSN 1336-4839.
- AFH03 BLŠÁKOVÁ, Anna - TKÁČ, Ján. Príprava glykánových povrchov s využitím nanomateriálov. In Editors: Ferko Miroslav, Farkaš Pavol: Zborník abstraktov 2019: Inetraktívna konferencia mladých vedcov 2019. Banská Bystrica: Občianske združenie PREVEDA, 6.5.-7.6.2019. ISBN 978-80-972360-4-5, abstrakt č. 1849.
- AFH04 BLŠÁKOVÁ, Anna - TKÁČ, Ján. Príprava nanoštruktúrovaných glykánových povrchov. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 137. ISSN 1336-7242.
- AFH05 BOŤANSKÁ, Barbora - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BARANČÍK, Miroslav. Effects of glycophenolics on doxorubicin toxicity in kidney cells HEK 293. In Košútová Michaela (ed.). VIIIth Miniconference of PhD. Students of Centre of Experimental Medicine : Through the Vision and Ideas create a Plan for Success. Book of abstracts. - Bratislava : Centrum of Experimental Medicine, Slovak Academy of Sciences, 2019, p. 9.
- AFH06 BOŤANSKÁ, Barbora - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BARANČÍK, Miroslav. Vplyv glykofenolík na moduláciu účinkov doxorubicínu v obličkových bunkách HEK 293. In GAVURNÍKOVÁ, Gabriela (ed.). Zborník abstraktov z konferencie Biochemické dni 2019, 21.-24. september 2019, Horný Smokovec, Slovensko. - Bratislava : Centrum vedecko-technických informácií SR, 2019, s. 72. ISBN 978-80-89965-27-4.
- AFH07 CAPEK, Peter - HALAJ, Michal - PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - JANTOVÁ, Soňa - TURJAN, Jozef - CEPÁK, Vladimír - LUKAVSKÝ, Jaromír. Extracellular biopolymers produced by green microalgae. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 198. ISSN 1336-7242.
- AFH08 FARKAŠ, Pavol - VALÁRIKOVÁ, Jana - ČÍŽOVÁ, Alžbeta. Interpretácia MS spektier heterogénnych neoglykokonjugátov. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 199. ISSN 1336-7242.
- AFH09 GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - TKÁČ, Ján. Sledovanie vplyvu leptantov na elektrochemické správanie vzoriek MXénu Ti3C2Tx. In FARKAŠ, Pavol. Editors: Ferko Miroslav, Farkaš Pavol: Zborník abstraktov 2019: Interaktívna konferencia mladých vedcov 2019. , 6.5.-7.6.2019. Abstrakt č. 1809. - Banská Bystrica : Občianske združenie PREVEDA, 2019. ISBN 978-80-972360-4-5.
- AFH10 GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - OMASTOVÁ, Mária - PROCHÁZKA, Michal - PROCHÁZKOVÁ, Simona - JERIGOVÁ, Monika - VELIČ, Dušan - TKÁČ, Ján. Sledovanie vplyvu leptantov na elektrochemické

- správanie vzoriek MXénu Ti<sub>3</sub>C<sub>2</sub>TX. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 155. ISSN 1336-7242.
- AFH11 GEMEINER, Pavol - HOMOLA, Tomáš - LORENCOVÁ, Lenka - PARRÁKOVÁ, Lucia - PAVLIČKOVÁ, Michaela - TKÁČ, Ján - MIKULA, Milan. Plazmou redukované grafén oxidové elektródy pre hybridnú fotovoltiku a biosenzoriku. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 79. ISSN 1336-7242.
- AFH12 HAKAROVÁ, Marietta - BUČKO, Marek - KRAJČOVIČ, Tomáš - GEMEINER, Peter. Produkcia bioaktívnych látok imobilizovanými celobunkovými biokatalyzátormi v miešanom bioreaktore. In FARKAŠ, Pavol. Editors: Ferko Miroslav, Farkaš Pavol: Zborník abstraktov 2019: Interaktívna konferencia mladých vedcov 2019, 6.5.-7.6.2019. Abstrakt č. 1820. - Banská Bystrica : Občianske združenie PREVEDA, 2019. ISBN 978-80-972360-4-5.
- AFH13 HATALA, Michal - GEMEINER, Pavol - PAVLIČKOVÁ, Michaela - PARRÁKOVÁ, Lucia - LORENCOVÁ, Lenka - HÁZ, Aleš - TKÁČ, Ján - MIKULA, Milan. Tlačené uhlíkové elektródy pre biosenzoriku a hybridnú fotovoltiku. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 156. ISSN 1336-7242.
- AFH14 HÍREŠ, Michal - JÁNÉ, Eduard - MEGO, Michal - CHOVANEC, Michal - KASÁK, Peter - TKÁČ, Ján. Nový pohľad na známe biomarkery – potenciál skorej diagnostiky rakoviny semenníkov. In LAKATOŠ, Boris - BREIER, Albert - SULOVÁ, Zdena (eds.). Zborník príspevkov a program: Drobnicov memoriál 10. ročník, 11.-13. september 2019, Stará Lesná, Slovensko. - Bratislava : Centrum biovied SAV - Ústav molekulárnej fyziológie a genetiky, 2019, s. 51. ISBN 978-80-972752-6-6.
- AFH15 HLASOVÁ, Zuzana - MIERTUŠ, Stanislav - ONDREJOVIČ, Miroslav - KATRLÍK, Jaroslav. Evaluation of neuraminidase inhibitors by lectin-based method. In CHMELOVÁ, Daniela - ONDREJOVIČ, Miroslav (eds.). Book of Abstracts: Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava, Slovakia. - Trnava : University of SS. Cyril and Methodius in Trnava, 2019, p. 67-68. ISBN 978-80-8105-996-4.
- AFH16 HORVÁTHOVÁ, Ágnes - ČURILLOVÁ, Natália - STRATILOVÁ, Barbora - FARKAŠ, Vladimír - STRATILOVÁ, Eva. Testovanie inhibičného účinku komerčných antifungálnych látok na transglykozylázy Crh1, Crh2, Phr1 a Phr2. In LAKATOŠ, Boris - BREIER, Albert - SULOVÁ, Zdena (eds.). Zborník príspevkov a program: Drobnicov memoriál 10. ročník, 11.-13. september 2019, Stará Lesná, Slovensko. - Bratislava : Centrum biovied SAV - Ústav molekulárnej fyziológie a genetiky, 2019, p. 58. ISBN 978-80-972752-6-6.
- AFH17 HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír. Search for inhibitors of yeast cell wall transglycosylase Crh1. In Vadkertiová Renáta, Dudášová Hana (eds). Programme & Abstracts: 46th Annual Conference on Yeasts, May 7 - 10, 2019, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Institute of Chemistry, Slovak Academy of Sciences and Commission on Yeasts of the Czechoslovak Society of Microbiology, 2019, p. 50. ISSN 1336-4839.
- AFH18 HORVÁTHOVÁ, Eva - MASTIHUBOVÁ, Mária - KARNÍŠOVÁ POTOCKÁ, Elena - KIS, Peter - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - Klapáková, Martina - HUNÁKOVÁ, Ľuba - MASTIHUBA, Vladimír. Synthesis of phenylethanoid glycopyranosides and their structure vs. activity assessment in cell-free tests and on human cells cultured in vitro. In Interdisciplinary toxicology. -

- Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2019, vol. 12, suppl. 1, p. 37-38. (2018: 0.274 - SJR, Q3 - SJR). (2019 - SCOPUS). ISSN 1337-6853.
- AFH19 HRICOVÍNI, Michal - ASHER, James - MALKINA, Olga L. - HRICOVÍNI, Miloš. Photoswitching behaviour of heterocyclic imines: Theoretical, NMR and EPR st. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 149. ISSN 1336-7242.
- AFH20 HRICOVÍNI, Michal - ASHER, James - HRICOVÍNI, Miloš. Photochemical properties of potential anticancer agents: Anti-syn isomerization of 2,3-disubstituted quinazolinones. In Book of Abstracts: INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava, Slovakia. - Bratislava : Institute of Chemistry SAS, 2019, p. 21. ISBN 978-80-971665-1-9.
- AFH21 HRICOVÍNIOVÁ, Jana - MICHNOVÁ, Hana - ŠEVČOVIČOVÁ, Andrea - POSPÍŠILOVÁ, Šárka - JAMPÍLEK, Jozef - HRICOVÍNIOVÁ, Zuzana. Design, synthesis and biological activities of new synthetic gallotannins. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 182. ISSN 1336-7242.
- AFH22 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Konštrukcia nanoštruktúrovaného biosenzora na detekciu potenciálneho biomarkera rakoviny prostaty – sarkozínu. In LAKATOŠ, Boris - BREIER, Albert - SULOVÁ, Zdena (eds.). Zborník príspevkov a program: Drobnicov memoriál 10. ročník, 11.-13. september 2019, Stará Lesná, Slovensko. - Bratislava : Centrum biovied SAV - Ústav molekulárnej fyziológie a genetiky, 2019, s. 50. ISBN 978-80-972752-6-6.
- AFH23 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Príprava nanoštruktúrovaného biosenzora na detekciu sarkozínu - potenciálneho biomarkera rakoviny prostaty. In FARKAŠ, Pavol. Editors: Ferko Miroslav, Farkaš Pavol: Zborník abstraktov 2019: Interaktívna konferencia mladých vedcov 2019, 6.5.-7.6.2019. Abstrakt č. 1855. - Banská Bystrica : Občianske združenie PREVEDA, 2019. ISBN 978-80-972360-4-5.
- AFH24 JAKUBČINOVÁ, Jana - KOZMON, Stanislav - BARÁTH, Marek. Dizajn, syntéza, stabilita a aktivita nových inhibítorov tranzitného stavu ľudských glykozyltransferáz a mykobakteriálnych galaktofuranozyltransferáz. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 98-99. ISSN 1336-7242.
- AFH25 JAKUBČINOVÁ, Jana - BARÁTH, Marek. Fosforylačné reakcie vybraných 2-tiofuranóz. In FARKAŠ, Pavol. Editors: Ferko Miroslav, Farkaš Pavol: Zborník abstraktov 2019: Interaktívna konferencia mladých vedcov 2019, 6.5.-7.6.2019. Abstrakt č. 1830. - Banská Bystrica : Občianske združenie PREVEDA, 2019. ISBN 978-80-972360-4-5.
- AFH26 KARKESZOVÁ, Klaudia - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Regioselektívne acylácie kyseliny kojovej. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 117. ISSN 1336-7242.
- AFH27 KÓŇA, Juraj. Catalyses of inverting and retaining glycosyltransferases pass through oxocarbenium ion intermediates via S<sub>N</sub>i-like mechanism: Insights from DFT-QM/MM calculations. In Book of Abstracts: INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava, Slovakia. - Bratislava : Institute of Chemistry SAS, 2019, p. 18. ISBN 978-80-971665-1-9.
- AFH28 KORMANEC, Ján - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - MATULOVÁ, Mária - CSÖLLEIOVÁ, Dominika - HOMEROVÁ, Dagmar - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrice. Zaujímavé štrukturálne vlastnosti antibiotika auricínu podobného angucyklínu a jeho komplexná regulácia v



- Streptomyces lavendulae subsp. lavendulae CCM 3239. In GAVURNÍKOVÁ, Gabriela (ed.). Zborník abstraktov z konferencie Biochemické dni 2019, 21.-24. september 2019, Horný Smokovec, Slovensko. - Bratislava : Centrum vedecko-technických informácií SR, 2019, s. 91. ISBN 978-80-89965-27-4.
- AFH29 KÖSZAGOVÁ, Romana - NAHÁLKA, Jozef. Comparison and characterization of two homologues of PPKs2 in the form of active inclusion bodies. In FEDUNOVÁ, Diana - BEDNÁRIKOVÁ, Zuzana - VANÍK, Vladimír (eds.). Book of Contributions: 11th International Conference Structure and Stability of Biomacromolecules (SSB2019), September 3-6, 2019, Košice, Slovakia. - Košice : Institute of Experimental Physics SAS, 2019, p. 95-96. ISBN 978-80-89656-25-7.
- AFH30 KÖSZAGOVÁ, Romana - NAHÁLKA, Jozef. Calgonit for industrial synthesis. In TÓTHOVÁ, Monika - BYSTRICKÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Proceedings of Abstracts: Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra, November 7, 2019. - Nitra : Slovak University of Agriculture in Nitra, 2019, p. 34. ISBN 978-80-552-2083-3.
- AFH31 KOZMON, Stanislav. Complex theoretical study of the O-GINAc transferase reaction mechanism. In Podhradská Silvia - Benková Zuzana (eds.). BIMac 2019 : Computational and Experimental Approach to Polymers in Biomedical and Soft Matter : 23rd Bratislava International Conference on Macromolecules : Programme and Abstracts Book. - Bratislava : Polymer Institute of Slovak Academy of Sciences, 2019, p. 46-47, CL-14. ISBN 978-80-89841-10-3.
- AFH32 KVĚTOŇ, Filip - TKÁČ, Ján. Elektrochemická detekcia tumor-asociovej protilátky 2C4 pomocou glykánového biosenzora. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 130-131. ISSN 1336-7242.
- AFH33 LORENCOVÁ, Lenka - BERTÓK, Tomáš - FILIP, Jaroslav - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - TKÁČ, Ján. Stabilný Ti<sub>3</sub>C<sub>2</sub>TX (MXén)/Pt nanokompozit pre aplikácie v senzorochoch. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 161. ISSN 1336-7242.
- AFH34 NEMČOVIČ, Marek - BENKO, Mário - LENHARTOVÁ, Simona - HOLÍKOVÁ, Viera - ZAJONC, Dirk - SEDY, J. - NEMČOVIČOVÁ, Ivana. Getting inspiration from molecular immunomodulation mechanism caused by human cytomegalovirus. In Joint Czechoslovak Virology Conference 2019 and 1st SK-AT Structural Virology Meeting, February 13-15, 2019, Bratislava : Book of Abstracts. - České Budějovice : Biologické centrum AV ČR, v.v.i., 2019, p. 20. ISBN 978-80-86668-53-6.
- AFH35 NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - ŠALINGOVÁ, Anna - ŠEBOVÁ, Claudia - OSTROŽLÍKOVÁ, Mária - MUCHA, Ján - BARÁTH, Peter. Využitie MALDI-TOF/TOF v stanovení voľných oligosacharidov v moči v diagnostike lyzozomálnych ochorení. In Via practica : . (Odborný program a abstrakty: 8. slovenská konferencia o zriedkavých chorobách, 14.-15. november 2019, Bratislava), 2019, vol. 16, suppl. 2, p. 45. ISSN 1336-4790.
- AFH36 PAKANOVÁ, Zuzana - KRIŽÁKOVÁ, Martina, Zámorová - PAŽITNÁ, Lucia - BARÁTH, Peter - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - ŠESTÁK, Sergej - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - MUCHA, Ján - KATRLÍK, Jaroslav. Combined glycan analysis using lectin-based reverse-phase protein microarray and MS techniques: the case of congenital disorder of glycosylation. In Daniela Chmelová, Ondrejovič Miroslav (eds.). Book of Abstracts: Trends and Prospects in Medicinal and Pharma Biotechnologies in Europe. Towards Strengthening Regional Cooperation Including CEE Countries, June 3-4, 2019, Trnava. - Trnava : University of SS. Cyril and Methodius in Trnava, 2019, p. 79.

- ISBN 978-80-8105-996-4.
- AFH37 PANČÍK, Filip - VALÁRIKOVÁ, Jana - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Slavomír - BARÁTH, Peter. Fragmentation analysis of O-specific bonded saccharides from bacterial samples using LC-MS and MALDI-MS. In Book of Abstracts: INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava, Slovakia. - Bratislava : Institute of Chemistry SAS, 2019, p. 25. ISBN 978-80-971665-1-9.
- AFH38 PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GRIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Analýza glykánov fibrinogénu, transferínu, alfa-2-makroglobulínu a sér pacientov s peritoneálnou dialýzou pomocou lektínovej microarray metódy. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko, 2019, roč. 15, č. 1, s. 143-144. ISSN 1336-7242.
- AFH39 PAŽITNÁ, Lucia - HLASOVÁ, Zuzana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - PENEZIĆ, Ana - GRIGORIJEVIĆ, Nikola - BARALIĆ, Marko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Analýza glykánov sérových glykoproteínov u pacientov s peritoneálnou dialýzou lektínovou microarray metódou. In FARKAŠ, Pavol. Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2019: Interaktívna konferencia mladých vedcov 2019. Banská Bystrica: Občianske združenie PREVEDA, 6.5.-7.6.2019. Abstrakt č. 1868. ISBN 978-80-972360-4-5.
- AFH40 PIPIKOVÁ, Jana - SCHUSTEROVÁ, Hana, Dudášová - MOLNÁROVÁ, J. - VADKERTIOVÁ, Renáta. Characterization of a novel basidiomycetous *Moniliella* species associated with fruit trees. In Renáta Vadkertiová, Hana Dudášová (eds.). Programme & Abstracts: 46th Annual Conference on Yeasts, May 7-10, 2019, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Institute of Chemistry, Slovak Academy of Sciences and Commission on Yeasts of the Czechoslovak Society of Microbiology, 2019, p. 73. ISSN 1336-4839.
- AFH41 PIPIKOVÁ, Jana - HORVÁTHOVÁ, Ágnes - STRATILOVÁ, Barbora - SCHUSTEROVÁ, Hana, Dudášová - VADKERTIOVÁ, Renáta. Diversity of yeasts isolated from meadow plants in Slovakia. In MEDVEĎOVÁ, Alžbeta - GAÁLOVÁ, Barbora - BUJDÁKOVÁ, Helena - OLEJNÍKOVÁ, Petra (eds.). Zborník abstraktov: 28. Kongres Československej spoločnosti mikrobiologickej, 18.-21. september 2019, Tatranské Matliare, Slovensko, s. 127. ISBN 978-80-973411-0-7.
- AFH42 SCHUSTEROVÁ, Hana, Dudášová - VADKERTIOVÁ, Renáta - POCZOVÁ. Killer activity of soil yeasts against natural and clinical isolates. In Vadkertiová, Renáta - Dudášová Hana (eds.). Programme & Abstracts: 46th Annual Conference on Yeasts, May 7-10, 2019, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Institute of Chemistry, Slovak Academy of Sciences and Commission on Yeasts of the Czechoslovak Society of Microbiology, 2019, p. 71. ISSN 1336-4839.
- AFH43 SLÁDEK, Vladimír - HARADA, Ryuhei - SHIGETA, Yasuteru. Analysis of protein dynamics and structure by nt-PaCS-MD and ProGA. In Book of Abstracts: INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava, Slovakia. - Bratislava : Institute of Chemistry SAS, 2019, p. 19. ISBN 978-80-971665-1-9.
- AFH44 SLÁDEK, Vladimír - KÓŇA, Juraj - TOKIWA, Hiroaki - SHIGETA, Yasuteru. Protein residue networks and the binding of human cytomegalovirus UL 141 to TRAIL-R2. In Joint CzechoSlovak Virology Conference 2019 and 1st SK-AT Structural Virology Meeting, February 13-15, 2019, Bratislava, Slovakia. - Bratislava: Biomedical Center SAS, 2019, p. neuvedená.
- AFH45 STRATILOVÁ, Barbora - KOZMON, Stanislav. Stability of reaction complex of specific and nonspecific xyloglucan endotransglycosylase (XET) with linear

- oligosaccharides as acceptors. In PODHRADSKÁ, Silvia - BENKOVÁ, Zuzana (eds.). BIMac 2019 : Computational and Experimental Approach to Polymers in Biomedical and Soft Matter : 23rd Bratislava International Conference on Macromolecules : Programme and Abstracts Book. - Bratislava : Polymer Institute of Slovak Academy of Sciences, 2019, p. 68-69, P-8. ISBN 978-80-89841-10-3.
- AFH46 STRATILOVÁ, Barbora - SCHUSTEROVÁ, Hana, Dudášová - VADKERTIOVÁ, Renáta. Creation of MS based database for the Culture Collection of Yeasts. In Vadkertiová, Renáta - Dudášová, Hana (eds.). Programme & Abstracts: 46th Annual Conference on Yeasts, May 7-10, 2019, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Institute of Chemistry, Slovak Academy of Sciences and Commission on Yeasts of the Czechoslovak Society of Microbiology, 2019, p. 74. ISSN 1336-4839.
- AFH47 STRATILOVÁ, Barbora - KOZMON, Stanislav. Study of the N-acetylglucosaminyltransferase-V (GnT-V) interactions with substrates using computational chemistry tools. In Book of Abstracts: INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava, Slovakia. - Bratislava : Institute of Chemistry SAS, 2019, p. 20. ISBN 978-80-971665-1-9.
- AFH48 ŠALINGOVÁ, Anna - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - ZIBUROVÁ, Jana - SKOKŇOVÁ, Martina - DOLNÍKOVÁ, Dana - OSTROŽLÍKOVÁ, Mária - ŠEBOVÁ, Claudia - MUCHA, Ján - BARÁTH, Peter. Kongenitálna porucha N-glykozylácie ALG12-CDG u novorodenca. In Via practica, 2019, vol. 16, suppl. 2 (Odborný program a abstrakty: 8. slovenská konferencia o zriedkavých chorobách, 14.-15. november 2019, Bratislava. ISSN 1336-4790.
- AFH49 ŠEDIVÁ, Mária - LAHO, Maroš - KOHÚTOVÁ, Lenka - MOJŽIŠOVÁ, Andrea - MAJTÁN, Juraj - KLAUDINY, Jaroslav. The effect of pH on antibacterial activity of 10-HDA, a major royal jelly fatty acid, against honeybee pathogen *Paenibacillus* larvae. In Book of Abstracts: 7th International Scientific Conference Applied Natural Sciences 2019, September 25-27, 2019, Tále, Low Tatras, Slovakia. - Trnava : University of SS. Cyril and Methodius in Trnava, 2019, p. 131. ISBN 978-80-572-0011-6.
- AFH50 UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter. The exopolysaccharide produced by the cyanobacterium *Nostoc* sp. - a structural study. In Book of Abstracts: INSTRUCT ULTRA 3rd Structural Biology Meeting, November 14-15, 2019, Bratislava, Slovakia. - Bratislava : Institute of Chemistry SAS, 2019, p. 16. ISBN 978-80-971665-1-9.
- AFH51 VADKERTIOVÁ, Renáta - SCHUSTEROVÁ, Hana, Dudášová - PIPIKOVÁ, Jana. Yeasts associated with managed soil. In MEDVEĐOVÁ, Alžbeta - GAÁLOVÁ, Barbora - BUJDÁKOVÁ, Helena - OLEJNÍKOVÁ, Petra (eds.). Zborník abstraktov: 28. Kongres Československej spoločnosti mikrobiologickej, 18.-21. september 2019, Tatranské Matliare, Slovensko, s. 82. ISBN 978-80-973411-0-7.
- AFH52 ZIBUROVÁ, Jana - DOLEŠOVÁ, Lenka - VAVROVÁ, Ľudmila - VALENČÍKOVÁ, Romana - LOHAJOVÁ-BEHULOVÁ, Regina. Klinický exóm a jeho využitie v diagnostickej praxi. In Sborník abstraktů a přednášek: 23. celostátní konference DNA diagnostiky, 28.-29. listopad 2019, Brno, Česká republika. - Brno : Fakultní nemocnice Brno, s. 8.
- AFH53 ZIBUROVÁ, Jana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - BELLOVÁ, Jana - PAKANOVÁ, Zuzana - SIVÁKOVÁ, Barbara - ŠALINGOVÁ, Anna - ŠEBOVÁ, Claudia - OSTROŽLÍKOVÁ, Mária - DIMITRA - EVANTHIA, Lekka - BRUCKNEROVÁ, Jana - BRUCKNEROVÁ, Ingrid - SKOKŇOVÁ, Martina - TEKELYOVÁ, Alexandra - BZDÚCH, Vladimír - MUCHA, Ján - BARÁTH, Peter. New homozygous mutation in ALG12 gene associated with the accumulation of serum GlcNAc2Man7 N-glycan resulted in CDG-I disorder in newborn patient. In

DIRGOVÁ LUPTÁKOVÁ, Iveta - BEŇO, Miroslav (eds.). Book of Abstracts: 7th International Scientific Conference Applied Natural Sciences 2019, September 25-27, 2019, Tále, Low Tatras, Slovakia. - Trnava : University of SS. Cyril and Methodius in Trnava, p. 137. ISBN 978-80-572-0011-6.

#### AFK Postery zo zahraničných konferencií

- AFK01 HRICOVÍNI, Michal - HRICOVÍNI, Miloš. The multifaceted roles of glycosaminoglycans: What we can learn from molecular structures analysed by NMR and DFT. In COST Action CA18103 (INNOGLY) Meeting, October 23-25, 2019, Santiago de Compostela, Spain.
- AFK02 NEMČOVIČ, Marek - ZIBUROVÁ, Jana - PAKANOVÁ, Zuzana - ŠESTÁK, Sergej - BELLOVÁ, Jana - ŠALINGOVÁ, Anna - TEKELYOVÁ, Alexandra - DOLNÍKOVÁ, Dana - ŠEBOVÁ, Claudia - BARÁTH, Peter - MUCHA, Ján. CDG diagnosis in Slovakia revealed ALG12-CDG disorder in newborn patient. In The 4th World Conference on Congenital Disorders of Glycosylation (CDG) for Families and Professionals "The CDG road – From diagnosis to therapies" and the 1st CDG Satellite Meeting for Professionals, July 25-27, Lisbon, Portugal. - Lisbon, 2019.
- AFK03 SUSHYTSKYI, Leonid - BLEHA, Roman - SINICA, Andrej - CAPEK, Peter - ČOPIKOVÁ, Jana - LUKÁČ, Pavol - VANUCCI, Luca - KAŠTÁNEK, Peter. Purification of water-soluble bioactive polysaccharides from biomass of heterotrophic mutant alga *Chlorella vulgaris* G11. In Final program: 15th International Conference on Polysaccharides-Glycoscience (ICPG 2019), 13-15 November, 2019, Prague, Czech Republic. - Prague : University of Chemistry and Technology, 2019.

#### AFL Postery z domácich konferencií

- AFL01 JURČÍK, Ján - SIVÁKOVÁ, Barbara - LUKÁČOVÁ, Veronika - BELLOVÁ, Jana - BARÁTH, Peter - ČIPÁK, Ľuboš. Quantitative phosphoproteomic analysis of Cdc2 kinase substrates. In 10th CEGSDM meeting : Central European Genome Stability and Dynamics Meeting. - Bratislava : SAS, 2019, P31.
- AFL02 JURČÍK, Matúš - ČIPÁKOVÁ, Ingrid - BORBOVÁ, Marianna - MIKOLÁŠKOVÁ, Barbora - JURČÍK, Ján - BELLOVÁ, Jana - BARÁTH, Peter - GREGAN, Juraj - ČIPÁK, Ľuboš. Functional analysis of spliceosome-associated Gp11 complex. In 10th CEGSDM meeting : Central European Genome Stability and Dynamics Meeting. - Bratislava : SAS, 2019, P35.

#### AGJ Patentové prihlášky, prihlášky úžitkových vzorov, prihlášky dizajnov, prihlášky ochranných známok, žiadosti o udelenie dodatkových ochranných osvedčení,...

- AGJ01 PANGALLO, Domenico - BAUEROVÁ, Vladena - JESZEOVÁ, Lenka - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KRAKOVÁ, Lucia - BARÁTH, Peter - ŠTAFURA, Andrej - NAGY, Štefan - ČULÍK, Martin. Biopreparát z *Exiguobacterium undae*, spôsob jeho výroby a jeho použitie. Číslo prihlášky: PP 50012-2018 v Slovenskej republike : Prihlasovateľ/majiteľ: Ústav molekulárnej biológie SAV, Chemický ústav SAV, Ústav hudobnej vedy SAV, Technická univerzita vo Zvolene. Dátum podania prihlášky: 6.3.2018. Dátum zverejnenia prihlášky: 2.10.2019. In: Vestník Úradu priemyselného vlastníctva Slovenskej republiky, 2019, č. 10, s. 10. Banská Bystrica: Úrad priemyselného vlastníctva SR. ISSN 2453-7551.

**FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)**

- FAI01 BERTÓK, Tomáš (ed). Glyconanotechnology: Nanoscale approach for novel glycan analysis and their medical use. Singapore: Jenny Stanford Publishing, 2019, 328 pages. Singapore : Jenny Stanford Publishig, 2019. ISBN 978-98148000167.
- FAI02 FERKO, Miroslav - FARKAŠ, Pavol (eds.). PREVEDA : Interaktívna konferencia mladých vedcov 2019. Book of Abstracts = Interactive Conference of Young Scientists 2019. Bratislava : Občianske združenie Preveda, 2019. Dostupné na internete: <<https://abstracts.preveda.sk/>>. ISBN 978-80-972360-4-5.
- FAI03 HRICOVÍN, Miloš (ed). INSTRUCT ULTRA 3rd Structural biology meeting, Bratislava November 14 - 15, 2019. ISBN 978-80-971665-1-9.
- FAI04 SCHWARZOVÁ, Katarína. Arbobaktérie, leptospiry, kapnocytofágy, streptobacily – baktérie s patogénnym potenciálom prenosné na človeka; editori: Miroslav Ferko, Pavol Farkaš, recenzenti: Ivan Čiznár, Mária Avdičová, Marián Prokeš. Banská Bystrica : Občianske združenie Preveda, 2019. ISBN 978-80-972360-3-8.
- FAI05 VADKERTIOVÁ, Renáta - SCHUSTEROVÁ, Hana (eds.) - ČERTÍK, Milan (recenzent). Programme & Abstracts: 46th Annual Conference on Yeasts, May 7-10, 2019, SAS Congress Centre, Smolenice, Slovakia. Bratislava : Institute of Chemistry, Slovak Academy of Sciences and Commission on Yeasts of the Czechoslovak Society of Microbiology, 2019. ISSN 1336-4839.

**GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií**

- GII01 BIELY, Peter. Zelená budúcnosť Brazílie. In Quark, 2019, roč. XXV, č. 4, s. 18-19. ISSN 1335-4000.
- GII02 BREIEROVÁ, Emília. III. Culture Collection of Yeast (CCY), Institute of Chemistry, Slovak Academy of Sciences. In Yeast Newsletter, 2018, vol. 67, p. 27-28.
- GII03 FARKAŠ, Pavol - FERKO, Miroslav. Budúcnosť vedy v podobe mladých nádejí - Interaktívna Konferencia Mladých Vedcov 2019. In ChemZi : Zborník abstraktov: 71. Zjazd chemikov, 9-13 september 2019, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2019, roč. 15, č. 1, s. 9. ISSN 1336-7242.
- GII04 FARKAŠ, Vladimír - PODSTUPKA, Martin. Vedec musí byť pripravený na cestu bludiskom. In Akadémia: Správy SAV, 2019, roč. 55, č. 1, s. 20-21. ISSN 0139-6307.
- GII05 KVĚTOŇ, Filip - JOZSOVÁ, Renáta. Sladké odhalenie ochorení. In Quark, 2019, roč. XXV, č. 6, s. 40-41. ISSN 1337-8422.
- GII06 MASTIHUBA, Vladimír. Chemické horizonty v roku 2018. In ChemZi, 2018, roč. 14, č. 2, s. 42-43. ISSN 1336-7242.
- GII07 MASTIHUBA, Vladimír. Chemické horizonty - jarný cyklus 2019. In ChemZi, 2019, roč. 15, s. 20. ISSN 1336-7242.
- GII08 TKÁČ, Ján - WAGNEROVÁ, Ružena - KOVÁČ, Matej. Ako včas prísť na stopu rakovine. In Spektrum - Periodikum STU v Bratislava, 2018/2019, č.6, s. 4. ISSN 1336-2593.
- GII09 TKÁČ, Ján - HORÁK, Otakar. Vyvíja test na lepšiu diagnostiku rakoviny prostaty. Vo vede som sa absolútne našiel, vraví chemik. In Denník N, rubrika Veda, 30.10.2019, s. 16-17. ISSN 1339-844X.

## **Príloha D**

### **Údaje o pedagogickej činnosti organizácie**

#### Semestrálne prednášky:

Ing. Miloš Hricovíni, PhD.

Názov semestr. predmetu: Rezonančná spektroskopia

Počet hodín za semester: 12

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

RNDr. Karin Kollárová, PhD.

Názov semestr. predmetu: Regulačné molekuly v raste, morfogénéze a obranných procesoch rastlín, časť - Biologicky aktívne oligosacharidy z bunkových stien rastlín a húb

Počet hodín za semester: 4

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

doc. Ing. Ladislav Petruš, DrSc.

Názov semestr. predmetu: Chémia prírodných látok

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Mgr. Zuzana Vivodová, PhD.

Názov semestr. predmetu: Regulačné molekuly v raste, morfogénéze a obranných procesoch rastlín, časť - Rastlinná bunková stena a jej biosyntéza

Počet hodín za semester: 4

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

#### Semestrálne cvičenia:

Mgr. Jana Jakubčinová

Názov semestr. predmetu: Cvičenia z organickej chémie

Počet hodín za semester: 65

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Mgr. Jana Jakubčinová

Názov semestr. predmetu: Cvičenia z organickej chémie

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Martin Kalník

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie I

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Ing. Martin Kalník

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie II

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Ing. Vladimír Mastihuba, PhD.

Názov semestr. predmetu: Bakalársky projekt

Počet hodín za semester: 130

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Vladimír Mastihuba, PhD.

Názov semestr. predmetu: Semestrálny projekt

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Filip Pančík

Názov semestr. predmetu: Fyzikálna chémia I

Počet hodín za semester: 65

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Mgr. Barbara Siváková

Názov semestr. predmetu: Základné cvičenia z biochémie (1. roč.)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Barbara Siváková

Názov semestr. predmetu: Základné cvičenia z biochémie (3. roč.)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Barbora Stratilová

Názov semestr. predmetu: Fyzikálna chémia I

Počet hodín za semester: 65

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

### Semináre:

Mgr. Jana Jakubčinová

Názov semestr. predmetu: Seminár z organickej chémie

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

RNDr. Karin Kollárová, PhD.

Názov semestr. predmetu: Diplomový seminár

Počet hodín za semester: 130

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

RNDr. Vlasta Sasinková

Názov semestr. predmetu: Seminár z Ramanovej a FAR IR spektroskopie

Počet hodín za semester: 3

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav chémie potravín a biotechnológií

Ing. Eva Stratilová, PhD.

Názov semestr. predmetu: Diplomový seminár

Počet hodín za semester: 13

Názov katedry a vysokej školy: Fakulta chemická, Vysoké učení technické v Brně, VUT Brno, Česko, Ústav chemie potravin a biotechnológií

Terénne cvičenia:

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Individuálne prednášky:

Mgr. Peter Baráth, PhD.

Názov semestr. predmetu: Proteomika (semestrálny predmet: Genomika)

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Peter Baráth, PhD.

Názov semestr. predmetu: Proteomika (semestrálny predmet: Pokročilé metódy molekulárnej biológie)

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Ing. Renáta Vadkertiová, PhD.

Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova (Predmet: Seminár z mikrobiológie, 3. roč. Bc. štúdia)

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie



**Príloha E****Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko					Jaroslav Katrlík	6
Česko					Peter Capek	4
					Andrej Chyba	2
					Stanislav Kozmon	2
					Lucia Pažitná	4
					Andrea Schenkmayerová	365
					Ján Tkáč	1
					Igor Tvaroška	2
					Jana Ziburová	3
Čína	Jaroslav Katrlík	10				
Francúzsko					Soňa Garajová	365
Katar					Veronika Gajdošová	31
					Lenka Lorencová	31
Kórejská republika	Jaroslav Katrlík	9				
Nemecko					Jaroslav Katrlík	3
					Lucia Pažitná	4
Portugalsko					Marek Nemčovič	5
Rakúsko					Juvisan Medalith Aguedo Ariza	5
					Peter Capek	1
					Jaroslav Katrlík	4
Srbsko	Jaroslav Katrlík	8				
	Lucia	8				

	Pažitná					
Taliansko					Ján Tkáč	7
USA					Ján Tkáč	12
<b>Počet vyslaní spolu</b>	<b>4</b>	<b>35</b>			<b>20</b>	<b>857</b>

**(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Austrália					Dr. Mária Hrmová	2
Česko					Dr. Zdeněk Remeš	1
					Mgr. Michal Růžička	150
Japonsko			Dr. Dmitri G. Fedorov	24		
Kórejská republika					Dr. Seonghun Kim	7
Poľsko					Prof. Dorota Kregiel	104
Srbsko	Dr. Dragana Robajac	8				
	Dr. Zorana Dobrijević	8				
<b>Počet prijatí spolu</b>	<b>2</b>	<b>16</b>	<b>1</b>	<b>24</b>	<b>5</b>	<b>263</b>

**(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):**

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	COST Action CA18101-1MCM	Zuzana Košťálová	3
	COST Action CA18103-1MCM	Miloš Hricovíni	2
		Vladimír Mastihuba	4
	COST Action CA18224-1MCM	Zdenka Hromádková	4
		Mária Mastihubová	3
	COST Action CA18229-1MCM	Katarína Šuchová	3
	COST Action CA18238-1MCM	Peter Capek	4
Česko	20. Škola hmotnostní spektrometrie	Jana Bellová	6
		Barbara Siváková	6
	IABSPP 2019	Karin Kollárová	3
	Plant Biology CS 2019	Karin Kollárová	5
		Danica Kučerová	5

	XIX. IMYBBC	Lucia Pažitná	4
Čína	SIMM Glyco-science Seminar	Jaroslav Katrlík	1
Grécko	COST Action CA16113-CTS	Zuzana Pakanová	6
	COST Action CA16113-MCM-W	Jaroslav Katrlík	5
Holandsko	COST Action CA17128-WG+2MCM	Vladimír Mastihuba	5
	EUROCARB 2019	Miloš Hricovíni	7
		Zuzana Hricovíniová	7
Japonsko	RPPA 2019	Jaroslav Katrlík	5
Kórejská republika	11th ACGG Conference	Jaroslav Katrlík	4
	8th AGRS IGW	Jaroslav Katrlík	1
Nemecko	AVANCE/TopSpin	Michal Hricovíni	4
	Gaussian Workshop	Michal Hricovíni	6
Poľsko	16th IIMB	Mária Kopáčová	5
		Mária Matulová	5
		Vladimír Pätoprstý	5
		Iveta Uhliaríková	5
	MIRRI-Poland Regional Meeting	Renáta Vadkertiová	4
Portugalsko	COST Action CA18132-1MCM	Jaroslav Katrlík	4
		Mária Mastihubová	5
Rakúsko	11. Klosterneuburger Hefetagung	Renáta Vadkertiová	1
	CAPSID Workshop	Ágnes Horváthová	2
		Ľubomír Kremnický	2
		Barbara Siváková	2
	synBIOcarb ESR Training	Juvisan Medalith Aguedo Ariza	4
		Jaroslav Katrlík	4
		Paras Harendra Kundalia	4
		Ján Tkáč	4
Srbsko	3rd ENOVA Adjuvant Workshop	Pavol Farkaš	4
Španielsko	COST Action CA18103-1IC	Miloš Hricovíni	2
		Vladimír Mastihuba	5
	EUROBIOTECH 2019	Jaroslav Katrlík	5
	IBSBC 2019	Peter Baráth	4
		Miloš Hricovíni	5
Švajčiarsko	COST Action CA16113-MCM-W	Jaroslav Katrlík	5
Taliansko	25th ISG	Peter Baráth	7
		Jaroslav Katrlík	9
	EBS 2019	Ján Tkáč	4
	ECCO 2019	Hana Schusterová	4
		Renáta Vadkertiová	4

	ENOVA-TS 2019	Pavol Farkaš	5
		Jana Valáriková	5
	Instruct-Eric Council Meeting	Miloš Hricovíni	2
Turecko	INTERPHOTONICS 2019	Michal Hricovíni	7
Veľká Británia	SynBIOcarb First Training Event	Jaroslav Katrlík	5
	XV. Cell Wall Meeting	Eva Stratilová	6
<b>Spolu</b>	<b>38</b>	<b>57</b>	<b>247</b>

*Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd*

Skratky použité v tabuľke C:

11. Klosterneuburger Hefetagung - 11. Klosterneuburger Hefetagung  
11th ACGG Conference - 11th Asian Community of Glycoscience and Glycotechnology Conference  
16th IIMB - 16th International Interdisciplinary Meeting on Bioanalysis  
20. Škola hmotnostní spektrometrie - 20. Škola hmotnostní spektrometrie  
25th ISG - 25th International Symposium on Glycoconjugates  
3rd ENOVA Adjuvant Workshop - 3rd ENOVA Adjuvant Workshop  
8th AGRS IGW - 8th AGRS International Glycomic Workshop "Trends in Glycoscience & Glycotechnology"  
AVANCE/TopSpin - Bruker AVANCE/TopSpin Course  
CAPSID Workshop - CAPSID Workshop - An Introduction to Recombinant Protein Production, Purification, and Quality Assessment  
COST Action CA16113-CTS - COST Action CA16113 - CliniMark Training School  
COST Action CA16113-MCM-W - COST Action CA16113 - MC Meeting and Workshop  
COST Action CA17128-WG+2MCM - COST Action CA17128 - Working Groups Meeting and 2nd MC Meeting  
COST Action CA18101-1MCM - COST Action CA18101 - 1st MC Meeting  
COST Action CA18103-1IC - COST Action CA18103 - First INNOGLY Symposium  
COST Action CA18103-1MCM - COST Action CA18103 - 1st MC Meeting  
COST Action CA18132-1MCM - COST Action CA18132 - 1st MC Meeting  
COST Action CA18224-1MCM - COST Action CA18224 - 1st MC Meeting  
COST Action CA18229-1MCM - COST Action CA18229 - 1st MC Meeting  
COST Action CA18238-1MCM - COST Action CA18238 - 1st MC Meeting  
EBS 2019 - 2nd European Biosensor Symposium  
ECCO 2019 - XXXVIII Annual Meeting of the European Culture Collections' Organization  
ENOVA-TS 2019 - ENOVA Training Schools 2019  
EUROBIOTECH 2019 - European Biotechnology Congress 2019  
EUROCARB 2019 - XXth European Carbohydrate Symposium  
Gaussian Workshop - Gaussian Workshop in Ulm  
IABSPP 2019 - Influence of Abiotic and Biotic Stresses on Properties of Plants 2019  
IBSBC 2019 - Instruct Biennial Structural Biology Conference 2019  
Instruct-Eric Council Meeting - Instruct-Eric Council Meeting  
INTERPHOTONICS 2019 - 2nd International Conference of Photonics Research  
MIRRI-Poland Regional Meeting - MIRRI-Poland Regional Meeting  
Plant Biology CS 2019 - Plant Biology CS 2019  
RPPA 2019 - 8th GRPPAW Global Reverse Phase Protein Array Workshop  
SIMM Glyco-science Seminar - SIMM Glyco-science Seminar  
synBIOcarb ESR Training - synBIOcarb Early Stage Researchers Training  
SynBIOcarb First Training Event - SynBIOcarb First Training Event  
XIX. IMYBBC - XIX. Interdisciplinary Meeting of Young Biologists, Biochemists and Chemists  
XV. Cell Wall Meeting - XV. Cell Wall Meeting

## Príloha F

## Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ <sup>1</sup>	Názov	Miesto zverejnenia	Dátum
Mgr. Peter Baráth, PhD.	Ján Mucha, Marek Nemčovič, Miroslav Kooš	IN	Chemický ústav SAV partnerom CDG & Allies - PPAIN	Aktuality SAV. <a href="https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8377">https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8377</a>	20.8.2019
Ing. Tomáš Bertók, PhD.		PB	Moderné technológie v laboratórnej diagnostike	Chémia v praktickom živote, Bratislava	6.11.2019
Ing. Tomáš Bertók, PhD.		PB	Valuácia nápadu	IXPO - Najväčší technologický festival, SAV Stage, Bratislava	26.4.2019
Ing. Tomáš Bertók, PhD.		PB	Vedecké reči o cukre	Týždeň vedy a techniky na Slovensku 2019, Deň otvorených dverí CHÚ SAV, Bratislava	5.11.2019
Ing. Anna Blšáková	Slávka Cigáňová	IN	V boji proti rakovine vedci vylepšujú podmienky biosenzora	Portál Veda na dosah, sekcia Články. <a href="https://vedanadosah.cvtisr.sk/v-boji-proti-rakovine-vedci-vylepsuju-podmienky-biosenzora">https://vedanadosah.cvtisr.sk/v-boji-proti-rakovine-vedci-vylepsuju-podmienky-biosenzora</a>	20.5.2019
Ing. Pavol Farkaš, PhD.	Barbora Alföldyová, Lucia Paulovičová, Jana Valáriková (organizátori: Chemický ústav, Ústav anorganickej chémie)	EX	Prezentácia ústavu a názorné chemické pokusy	Projekt Nájdi v sebe vedca III, 3. ročník, CHÚ SAV, Bratislava	3.4.2019
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	TL	Budúcnosť vedy v podobe mladých nádejí - Interaktívna Konferencia Mladých Vedcov 2019	ChemZi, 2019, roč. 15, č. 1, s. 9. ISSN 1336-7242	2019
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	IN	Slávnostné vyhodnotenie XI. ročníka Interaktívnej konferencie mladých vedcov 2019	Aktuality SAV. <a href="https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8313">https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8313</a>	20.6.2019
Ing. Pavol Farkaš, PhD.	Zuzana Vetrecin Čeplíková, Miroslav Ferko	IN	Interaktívna Konferencia Mladých Vedcov 2019 pozná svojich víťazov	Vedanadosah.cvtisr.sk, sekcia Články. <a href="https://vedanadosah.cvtisr.sk/interaktivna-konferencia-mladych-vedcov-2019-pozna-svojich-vitazov">https://vedanadosah.cvtisr.sk/interaktivna-konferencia-mladych-vedcov-2019-pozna-svojich-vitazov</a>	21.6.2019
doc. Ing. Vladimír Farkaš, DrSc.	Gabriela Angibaud	RO	Vladimír Farkaš, biochemik a mikrobiológ	RTVS, Rádio Slovensko, relácia Nočná pyramída - host', 22:19 hod. <a href="http://radio-arch-pp.stv.livebox.sk/a520/00/0017/001785/00178515-1.mp3">http://radio-arch-pp.stv.livebox.sk/a520/00/0017/001785/00178515-1.mp3</a>	2.1.2019
doc. Ing. Vladimír	Martin Podstupka	TL	Vedec musí byť	Akadémia: Správy SAV,	2019

Farkaš, DrSc.			pripravený na cestu bludiskom	2019, roč. 55, č. 1, s. 20-21. ISSN 0139-6307	
Mgr. Ágnes Horváthová		PB	Čarovný svet kvasiniek	Týždeň vedy a techniky na Slovensku 2019, Deň otvorených dverí CHÚ SAV, Bratislava	5.11.2019
Ing. Štefánia Hrončeková	Slávka Cigánová	IN	Ako by bolo možné čo najskôr odhaliť rakovinu prostaty?	Portál Veda na dosah, sekcia Články. <a href="https://vedanadosah.cvtisr.sk/ako-by-bolo-mozne-co-najskor-odhalit-rakovinu-prostaty">https://vedanadosah.cvtisr.sk/ako-by-bolo-mozne-co-najskor-odhalit-rakovinu-prostaty</a>	14.7.2019
Mgr. Erika Chocholová	Lucia Tomečková	IN	Študentská osobnosť roka: „Mojou túžbou je pomôcť ľuďom, ktorí majú nejaký typ rakoviny“	Portál Dalito.sk, sekcia Správy. <a href="https://www.dalito.sk/studentska-osobnost-roka-mojou-tuzbou-je-pomoc-t-ludom-ktori-maju-nejaky-typ-rakoviny/">https://www.dalito.sk/studentska-osobnost-roka-mojou-tuzbou-je-pomoc-t-ludom-ktori-maju-nejaky-typ-rakoviny/</a>	20.12.2019
Ing. Jaroslav Katrlík, PhD.	Jaroslav Barborák, Štefánia Kačalková, Peter Filipčák, Renáta Vitková, Jozef Živčák	IN	Vyššie 30 miliónov na vedu a výskum. Podľa vedcov by potrebovali ešte viac	Vedecký kaleidoskop: e-noviny NCP VaT. <a href="http://vedeckykaleidoskop.cvtisr.sk/2019/01-2019/vyse-30-milionov-na-vedu-a-vyskum.-podla-vedcov-by-potrebovali">http://vedeckykaleidoskop.cvtisr.sk/2019/01-2019/vyse-30-milionov-na-vedu-a-vyskum.-podla-vedcov-by-potrebovali</a>	2.1.2019
Ing. Jaroslav Katrlík, PhD.	Štefánia Kačalková, Marián Kukelka, Jiří Kús, Zdenka Lukáčová Bujňáková	IN	Výskum v oblasti nanotechnológií v medicíne	Vedecký kaleidoskop: e-noviny NCP VaT. <a href="http://vedeckykaleidoskop.cvtisr.sk/2019/01-2019/vyskum-v-oblasti-nanotechnologii-v-medicine.html?page_id=8272">http://vedeckykaleidoskop.cvtisr.sk/2019/01-2019/vyskum-v-oblasti-nanotechnologii-v-medicine.html?page_id=8272</a>	8.1.2019
Ing. Jaroslav Katrlík, PhD.	Štefánia Kačalková, Marián Kukelka, Jiří Kús, Zdenka Lukáčová Bujňáková.	RO	Výskum v oblasti nanotechnológií v medicíne	RTVS, Rádio Slovensko, relácia Rádiožurnál o 12:00. <a href="https://www.rtvs.sk/radio/archiv/1123/1056713">https://www.rtvs.sk/radio/archiv/1123/1056713</a>	7.1.2019
RNDr. Jaroslav Klaudiny, PhD.		PB	Ako môže náš výskum pomôcť včelám	Týždeň vedy a techniky na Slovensku 2019, Deň otvorených dverí CHÚ SAV, Bratislava	5.11.2019
Ing. Filip Květoň		PB	Ako vie cukor zachraňovať životy a odhaľovať veľké ochorenia?	Science Slam SAV - Vedci k veci, Nová Cvernovka, Bratislava	27.2.2019
Ing. Filip Květoň		PB	How sugar can save lives and discover diseases	Science Slam European Final, Viedeň, Rakúsko	27.9.2019
Ing. Filip Květoň		IN	Kann Zucker leben retten? (Môže cukor zachrániť životy?)	Science Slam European Final 2019, Viedeň. <a href="http://www.scienceslam.at/">http://www.scienceslam.at/</a>	27.9.2019
Ing. Filip Květoň		PB	Sladké stanovenie chorôb?	Vedatour++ v KC Dunaj, Bratislava	7.11.2019
Ing. Filip Květoň		PB	Sladký život? (Science Slam: odľahčene o vede)	Večerný festival vedy - Voices of Science, Bratislava	17.10.2019
Ing. Filip Květoň	Iveta Gombošová	TV	Sacharidy pomáhajú v diagnostike chorôb	RTVS, relácia Ranné správy RTVS, 7:30 hod. <a href="https://www.rtvs.sk/televi">https://www.rtvs.sk/televi</a>	4.10.2019

				zia/archiv/14026/199643	
Ing. Filip Květoň	Matúš Demko	IN	Vedci nie sú len stereotypné postavičky v bielych plášťoch	Eductech, n.o., sekcia Novinky. <a href="https://www.eductech.sk/novinky/filip-kveton-vedci-nie-su-len-stereotypne-postavicky-v-bielych-plastoch/">https://www.eductech.sk/novinky/filip-kveton-vedci-nie-su-len-stereotypne-postavicky-v-bielych-plastoch/</a>	28.10.2019
Ing. Filip Květoň	Monika Hucáková	IN	Víťazný Science Slam bol o boji s rakovinou	Portál Veda na dosah, sekcia Články. <a href="http://vedanadosah.cvtisr.sk/vitazny-science-slam-bol-o-boji-s-rakovinou">http://vedanadosah.cvtisr.sk/vitazny-science-slam-bol-o-boji-s-rakovinou</a>	27.5.2019
Ing. Filip Květoň	Renáta Jozsová	TL	Sladké odhalenie ochorení	Quark, 2019, roč. XXV, č. 6, s. 40-41. 1335-4000	19.6.2019
Ing. Filip Květoň	Soňa Otajovičová	IN	Mladý slovenský chemik sa predstavil na európskom finále Science Slam	Portál StartitUp, sekcia Zo Slovenska. <a href="https://www.startitup.sk/mlady-slovensky-chemik-sa-predstavil-na-europskom-finale-science-slam/">https://www.startitup.sk/mlady-slovensky-chemik-sa-predstavil-na-europskom-finale-science-slam/</a>	5.10.2019
RNDr. Lenka Lorencová, PhD.	Anna Blšáková, Veronika Gajdošová, Tomáš Krajčovič, Filip Květoň, Lucia Pažitná, Juvissan Aguedo, Paras Kundalia, Hana Schusterová	EX	Vedecký stánok: Cukry v diagnostike ochorení	Festival vedy Európska noc výskumníkov na Slovensku, Stará tržnica, Bratislava	27.9.2019
prof. RNDr. Alexander Lux, CSc.	Gabriela Angibaud	RO	Ríša rastlín	RTVS, Rádio Slovensko, relácia Nočná pyramída - hosť, 22:19 hod. <a href="https://www.rtvs.sk/radio/archiv/11436/1247621">https://www.rtvs.sk/radio/archiv/11436/1247621</a>	16.12.2019
Ing. Vladimír Mastihuba, PhD.		TL	Chemické horizonty - jarný cyklus 2019	ChemZi, 2019, roč. 15, č. 1, s. 20. ISSN 1336-7242	2019
Ing. Vladimír Mastihuba, PhD.		TL	Chemické horizonty v roku 2018	ChemZi, 2018, roč. 14, č. 2, s. 42-43. ISSN 1336-7242.	2019
Ing. Lucia Paulovičová, PhD.	Viliam Pavlík	IN	Nájdí v sebe vedca: Pokusy doslova na vlastnej koži	Aktuality SAV. <a href="https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8235">https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8235</a>	9.5.2019
Ing. Vladimír Pätoprstý, PhD.		PB	Ako stanoviť narkotiká	Týždeň vedy a techniky na Slovensku 2019, Deň otvorených dverí CHÚ SAV, Bratislava	5.11.2019
Ing. Hana Schusterová, PhD.		PB	Výskyt, využitie a úschova kvasiniek	Týždeň vedy a techniky na Slovensku 2019, Deň otvorených dverí CHÚ SAV, Bratislava	5.11.2019
Ing. Vladimír Sládek, PhD.	Miroslav Kooš	IN	Účasť Chemického ústavu SAV na výskume nového lieku Parmodia®	Aktuality SAV. <a href="https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8083">https://www.sav.sk/index.php?doc=services-news&amp;source_no=20&amp;news_no=8083</a>	8.2.2019
Ing. Ján Tkáč, DrSc.	Denisa Koleničová, Linda	IN	Chemik Ján Tkáč: Z cukrov na povrchu	Portál Veda na dosah, sekcia Články.	31.10.2019

	Kisková Bohušová		bunky dokážeme presnejšie diagnostikovať rakovinu	<a href="https://vedanadosah.cvtisr.sk/chemik-jan-tkac-z-cukrov-na-povrchu-bunky-dokazeme-presnejsie-diagnostikovat-rakovi">https://vedanadosah.cvtisr.sk/chemik-jan-tkac-z-cukrov-na-povrchu-bunky-dokazeme-presnejsie-diagnostikovat-rakovi</a>	
Ing. Ján Tkáč, DrSc.	Matúš Beňo	IN	Ján Tkáč (profil finalistu vedeckého ocenenia) - Ako rýchlo a lacno vypátrať život ohrozujúcu chorobu	Sme.sk, sekcia Tech. <a href="https://tech.sme.sk/c/22224709/jan-tkac-profil-finalistu-vedecke-ho-ocenenia.html">https://tech.sme.sk/c/22224709/jan-tkac-profil-finalistu-vedecke-ho-ocenenia.html</a>	1.10.2019
Ing. Ján Tkáč, DrSc.	Otakar Horák	TL	Vyvíja test na lepšiu diagnostiku rakoviny prostaty. Vo vede som sa absolútne našiel, vraví chemik	Denník N, rubrika Veda, s. 16-17. ISSN 1339-844X	30.10.2019
Ing. Ján Tkáč, DrSc.	Paulína Böhmerová	TV	Aj na Slovensku máme výnimočných vedcov!	Televízia Markíza, relácia Teleráno, 6:00-8:30 hod.	18.11.2019
Ing. Ján Tkáč, DrSc.	Redakcia	IN	Prví laureáti ocenenia ESET Science Award sú známi	.Týždeň, sekcia .Veda. <a href="https://www.tyzden.sk/veda/59428/prvi-laureati-ocenenia-eset-science-award-su-znami/">https://www.tyzden.sk/veda/59428/prvi-laureati-ocenenia-eset-science-award-su-znami/</a>	19.10.2019
Ing. Ján Tkáč, DrSc.	Ružena Wagnerová, Matej Kováč	TL	Ako včas prísť na stopu rakovine	Spektrum - Periodikum STU v Bratislave, 2018/2019, č. 6, s. 4. ISSN 1336-2593	27.2.2019
Ing. Ján Tkáč, DrSc.	Seesame, s.r.o.	IN	Poznáme prvých držiteľov vedeckých cien ESET Science Award	PC Revue, sekcia Výskum. <a href="https://www.pcrevue.sk/a/Pozname-prvych-drzitelov-vedeckych-cien">https://www.pcrevue.sk/a/Pozname-prvych-drzitelov-vedeckych-cien</a>	19.10.2019
Ing. Ján Tkáč, DrSc.	Zuzana Matuščáková	IN	Nadácia ESET ocenila top slovenských vedcov. Tkáč z Glycanostics získal 100-tisíc eur	Forbes, sekcia Veda. <a href="https://www.forbes.sk/nadacia-eset-ocenila-top-slovenskych-vedcov-tkac-z-glycanostics-ziskal-100-tisic-eur/">https://www.forbes.sk/nadacia-eset-ocenila-top-slovenskych-vedcov-tkac-z-glycanostics-ziskal-100-tisic-eur/</a>	18.10.2019
Ing. Renáta Vadkertiová, PhD.	Lenka Dzobová	RO	Kváskovanie	RTVS, Rádio Slovensko, relácia Seriál týždňa (ako seriál sa relácia vysielala od 22.7. do 26.7. vždy v čase 8:14-8:16 hod.)	22.7.2019
Ing. Vladimír Mastihuba, PhD.		iné	Organizácia pravidelného cyklu vedecko-popularizačných prednášok "Chemické Horizonty" v rámci aktivít SCHS pri SAV	Fakulta chemickej a potravinárskej technológie STU, Bratislava	6 ×

<sup>1</sup> PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film.



**Ohlasy (citácie):****AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

- AAA01 KODET, J. - BABOR, Karol. Modifikované škroby, dextríny a lepidlá. (Modified starches, dextrans and adhesives.). - Praha: SNTL, 1991, 328 p. ISSN ISBN 80-03-00554-X.

**Citácie:**

1. [1.1] KREJCIKOVÁ, Sabina - OSTAFINSKÁ, Aleksandra - SLOUF, Miroslav. Thermoplastic Starch and its Applications. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 8, pp. 531-537., Registrované v: WOS

**ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách**

- ABA01 HEINZE, T. - KOSCHELLA, A. - EBRINGEROVÁ, Anna. Chemical functionalization of xylan: A short review. In ACS Symposium Series 864. Hemicelluloses: Science and Technology. - Washington : American Chemical Society, 2004. ISBN 0-8412-3842-1.

**Citácie:**

1. [1.1] MADEIRA, Jose Valdo - CONTESSINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 475-511., Registrované v: WOS

**ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

- ABC01 BIELY, Peter. Xylanolytic enzymes. In Handbook of Food Enzymology. - New York : Marcel Dekker, Inc., 2003, p. 879-915. ISBN 0-8247-0686-2.

**Citácie:**

1. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS

2. [1.1] DOTSENKO, Gleb - MEYER, Anne S. - CANIBE, Nuria - THYGESEN, Anders - NIELSEN, Michael Krogsgaard - LANGE, Lene. Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2018, vol. 8, no. 3, pp. 497-507., Registrované v: WOS

3. [1.1] PATEL, Harshvadan - KUMAR, Adepu Kiran - SHAH, Amita. Purification and characterization of novel bi-functional GH3 family beta-xylosidase/beta-glucosidase from *Aspergillus niger* ADH-11. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 1260-1269., Registrované v: WOS

- ABC02 BIELY, Peter. Biochemical aspects of the production of microbial hemicellulases. In Hemicellulose and Hemicellulases. - London : Portland Press, 1993, p. 29-51. ISBN 9781855780361.

**Citácie:**

1. [1.1] SHIMIZU, Kazuyuki. Pretreatment of Biomass. In METABOLIC REGULATION AND METABOLIC ENGINEERING FOR BIOFUEL AND BIOCHEMICAL PRODUCTION, 2017, vol., no., pp. 16-37., Registrované v: WOS

2. [1.1] ZHOU, Xin - ZHANG, Hongyu - XU, Yong. BIODEGRADATION AND UTILIZATION OF HEMICELLULOSE. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE, 2018, vol., no., pp. 183-218., Registrované v: WOS

- ABC03 COUGHLAN, M.P. - TUOHY, M.G. - FILHO, E.X.F. - PULS, J. - CLAEYSSSENS, M. - VRŠANSKÁ, Mária - HUGHES, M.M. Enzymological aspects of microbial hemicellulases with emphasis on fungal systems. In Hemicellulose and Hemicellulases, 1993. P. 53-84. ISSN 9781855780361.

**Citácie:**

1. [1.1] TAMBE, Srushti M. - DESAI, Namita D. Colonic Bacterial Enzymes: Pharmaceutical Significance and Applications. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. 71-99.,

Registrované v: WOS

2. [1.1] YADAVA, Sudha. *Research Advancements in Pharmaceutical, Nutritional, and Industrial Enzymology Foreword*. In *RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY*. ISSN 2327-9354, 2018, vol., no., pp. XVI-+, Registrované v: WOS

ABC04 ČERTÍK, Milan - HANUSOVÁ, V. - BREIEROVÁ, Emília - MÁROVÁ, I. - RAPTA, Peter. Biotechnological production and properties of carotenoid pigments. In *Biocatalysis and Agricultural Biotechnology*. - Boca Raton: CRC Press : Taylor & Francis Group, p. 355-376. ISBN 978-1-42007-703-2.

Citácie:

1. [1.1] ALAGOZ, Yagiz - NAYAK, Pranjali - DHAMI, Namraj - CAZZONELLI, Christopher. *cis-carotene biosynthesis, evolution and regulation in plants: The emergence of novel signaling metabolites*. In *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*. ISSN 0003-9861, 2018, vol. 654, no., pp. 172-184., Registrované v: WOS

ABC05 DELORT, Anne Marie - VAITILINGOM, Mickael - JOLY, Muriel - AMATO, Pierre - WIRGOT, Nolwenn - LALLEMENT, Audrey - SANCELME, Martine - MATULOVÁ, Mária - DEGUILLAUME, Laurent. Clouds: A transient and stressing habitat for microorganisms. In Chénard, Caroline - Lauro, Federico M. (eds.) : *Microbial Ecology of Extreme Environments*. - Cham, Switzerland : Springer International Publishing AG, 2017, chapter 10, p. 215-245. ISBN 978-3-319-51684-4.

Citácie:

1. [1.1] DASSARMA, Priya - DASSARMA, Shiladitya. *Survival of microbes in Earth's stratosphere*. In *CURRENT OPINION IN MICROBIOLOGY*. ISSN 1369-5274, 2018, vol. 43, no., pp. 24-30., Registrované v: WOS

2. [1.1] HU, Wei - NIU, Hongya - MURATA, Kotaro - WU, Zhijun - HU, Min - KOJIMA, Tomoko - ZHANG, Daizhou. *Bacteria in atmospheric waters: Detection, characteristics and implications*. In *ATMOSPHERIC ENVIRONMENT*. ISSN 1352-2310, 2018, vol. 179, no., pp. 201-221., Registrované v: WOS

ABC06 HRABÁROVÁ, Eva - ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Insoluble protein applications: the use of bacterial inclusion bodies as biocatalysts. In *Insoluble Proteins : Methods and Protocols*. - New York : Springer, 2015, vol. 1258, chapter 24, p. 411-422. ISBN 978-1-4939-2204-8.

Citácie:

1. [1.1] CALCINES-CRUZ, Carlos - OLVERA, Alejandro - CASTRO-ACOSTA, Ricardo M. - ZAVALA, Guadalupe - ALAGON, Alejandro - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. *Recombinant-phospholipase A2 production and architecture of inclusion bodies are affected by pH in Escherichia coli*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 826-836., Registrované v: WOS

2. [1.1] KLOSS, Ramona - KARMAINSKI, Tobias - JAEGER, Vera D. - HAHN, Doris - GRUENBERGER, Alexander - BAUMGART, Meike - KRAUSS, Ulrich - JAEGER, Karl-Erich - WIECHERT, Wolfgang - POHL, Martina. *Tailor-made catalytically active inclusion bodies for different applications in biocatalysis*. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2018, vol. 8, no. 22, pp. 5816-5826., Registrované v: WOS

3. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. *Catalytically active inclusion bodies of L-lysine decarboxylase from E. coli for 1,5-diaminopentane production*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

4. [1.1] KOPP, Julian - SLOUKA, Christoph - STROHMER, Daniel - KAGER, Julian - SPADIUT, Oliver - HERWIG, Christoph. *Inclusion Body Bead Size in E. coli Controlled by Physiological Feeding*. In *MICROORGANISMS*. ISSN 2076-2607, 2018, vol. 6, no. 4, pp., Registrované v: WOS

5. [1.2] FERRER-MIRALLES, N. - SACCARDO, P. - GARCIA-FRUITOS, E. *Protein purification from protein aggregates*. In *Handbook on Protein Purification: Industry Challenges and Technological Developments, 2018-11-15*, pp. 79-104., Registrované v: SCOPUS

ABC07 KOGAN, Grigorij - ŠOLTĚS, Ladislav - STERN, Robert - SCHILLER, Jürgen - MENDICHI, Raniero. Hyaluronic acid: its function and degradation in vivo systems. In *Bioactive natural products (Part N)*. Studies in natural products chemistry, Volume 34, Issue C. - Amsterdam : Elsevier, 2008, p. 789-882. ISBN 978-0-444-53180-3.

Citácie:

1. [1.1] COZIKOVA, Dagmar - HERMANNOVA, Martina - BUFFA, Radovan - FOGLOVA, Tereza - NESPOROVA, Kristina - KOTLAND, Ondrej - VELEBNY, Vladimir. *Comparison of degradation products generated during oxidative reductive depolymerization and acid hydrolysis of hyaluronan*. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, p. 37-39., Registrované v: WOS

- ABC08 MAROVA, Ivana - CERTIK, M. - BREIEROVÁ, Emília. Production of enriched biomass by carotenogenic yeasts – application of whole-cell yeast biomass to production of pigments and other lipid compounds. In Biomass – detection, production and usage. - Rijeka : InTech, 2011, chapter 18, p. 345-384. ISBN 978-953-307-492-4.  
Citácie:  
1. [1.1] LAU, Wai Xian - CARVAJAL-ZARRABAL, Octavio - NOLASCO-HIPOLITO, Cirilo - KOHEI, Mizuno - GREGORY, Zayn Al-Abideen - ABDULLAH, Mohammad Omar - TOH, Seng Chiew - LIHAN, Samuel. Production of pigments by *Rhodotorula mucilaginosa*. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2018, vol. 14, no. 4, pp. 344-350., Registrované v: WOS  
2. [1.1] ROVINARU, Camelia - PASARIN, Diana - CAPRA, Luiza - STOICA, Rusandica. THE EFFECT OF ZnSO<sub>4</sub> IN THE CULTIVATION MEDIUM ON RHODOTORULA GLUTINIS CCY 020-002-033 YEAST BIOMASS GROWTH, beta-CAROTENE PRODUCTION AND ZINC ACCUMULATION. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2018, vol. 8, no. 3, pp. 931-935., Registrované v: WOS
- ABC09 MARTINKA, Michal - VACULÍK, Marek - LUX, Alexander. Plant cell responses to cadmium and zinc. In Applied Plant Cell Biology. - Berlin, Heidelberg : Springer, 2014, s. 209-246. ISBN 978-3-642-41786-3.  
Citácie:  
1. [1.1] BIBBIANI, Susanna - COLZI, Ilaria - TAITI, Cosimo - NISSIM, Werther Guidi - PAPINI, Alessio - MANCUSO, Stefano - GONNELLI, Cristina. Smelling the metal: Volatile organic compound emission under Zn excess in the mint *Tetradenia riparia*. In PLANT SCIENCE. ISSN 0168-9452, 2018, vol. 271, no., pp. 1-8., Registrované v: WOS  
2. [1.1] GITTO, Aurora - FRICKE, Wieland. Zinc treatment of hydroponically grown barley plants causes a reduction in root and cell hydraulic conductivity and isoform-dependent decrease in aquaporin gene expression. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2018, vol. 164, no. 2, pp. 176-190., Registrované v: WOS  
3. [1.1] JIAN, Hongju - YANG, Bo - ZHANG, Aoxiang - MA, Jinqi - DING, Yiran - CHEN, Zhiyou - LI, Jiana - XU, Xinfu - LIU, Liezhao. Genome-Wide Identification of MicroRNAs in Response to Cadmium Stress in Oilseed Rape (*Brassica napus* L.) Using High-Throughput Sequencing. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 5, pp., Registrované v: WOS  
4. [1.1] RABELO, F.H.S. - LUX, A. - ROSSI, M.L. - MARTINELL, A.P. - CUYPERS, A. - LAVRES, J. Adequate S supply reduces the damage of high Cd exposure in roots and increases N, S and Mn uptake by Massai grass grown in hydroponics. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, APR 2018, vol. 148, p. 35-46., Registrované v: WOS  
5. [1.1] SIMKOVA, Lenka - FIALOVA, Ivana - VACULIKOVA, Miroslava - LUXOVA, Miroslava. The Effect of Silicon on the Activity and Isozymes Pattern of Antioxidative Enzymes of Young Maize Roots under Zinc Stress. In SILICON. ISSN 1876-990X, 2018, vol. 10, no. 6, pp. 2907-2910., Registrované v: WOS
- ABC10 NEMČOVIČOVÁ, Ivana - KUTÁ-SMATANOVÁ, Ivana. Alternative protein crystallization technique: Cross-influence procedure (CIP). In BORISENKO, Elena - KOLESNIKOV, Nikolai. Crystallization and materials science of modern artificial and natural crystals: Chapter 11. - Rijeka, Croatia : InTech, 2012, p. 249-276. ISBN 978-953-3076089.  
Citácie:  
1. [1.1] MATSUSHITA, Y. - SEKIGUCHI, H. - WONG, C. Jae - NISHIJIMA, M. - IKEZAKI, K. - HAMADA, D. - GOTO, Y. - SASAKI, Y. C. Nanoscale Dynamics of Protein Assembly Networks in Supersaturated Solutions. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
- ABC11 PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - HRICOVÍNIOVÁ, Zuzana. The Bilik reaction. In Topics in Current Chemistry. Glycoscience: Epimerization and Rearrangement Reactions of Carbohydrates. - Berlin : Springer Verlag, 2001, p. 15-41. ISBN 3-540-41383-9.  
Citácie:  
1. [1.1] BAYU, Asep - YOSHIDA, Akihiro - KARNJANAKOM, Surachai - ZUO, Zhijun - HAO, Xiaogang - ABUDULA, Abuliti - GUAN, Guoqing. An Effective Heterogeneous Catalyst of [BMIM](3)PMo12O40 for Selective Sugar Epimerization. In CHEMPLUSCHEM. ISSN 2192-6506, 2018, vol. 83, no. 5, pp. 383-389., Registrované v: WOS  
2. [1.1] BENNER, Steven A. - KIM, Hyo-Joong - BIONDI, Elisa. Mineral-Organic Interactions in Prebiotic Synthesis The Discontinuous Synthesis Model for the Formation of RNA in Naturally Complex Geological Environments. In PREBIOTIC CHEMISTRY AND CHEMICAL EVOLUTION OF NUCLEIC ACIDS. ISSN 0933-1891, 2018, vol. 35, no., pp. 31-83., Registrované v: WOS  
3. [1.1] DELIDOVICH, Irina - GYNGAZOVA, Maria S. - SANCHEZ-BASTARDO, Nuria - WOHLAND, Julia P. - HOPPE, Corinna - DRABO, Peter. Production of keto-pentoses via



- isomerization of aldo-pentoses catalyzed by phosphates and recovery of products by anionic extraction. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 3, pp. 724-734., Registrované v: WOS
4. [1.1] ZIEGLER, Eric W. - KIM, Hyo-Joong - BENNER, Steven A. Molybdenum(VI)-Catalyzed Rearrangement of Prebiotic Carbohydrates in Formamide, a Candidate Prebiotic Solvent. In *ASTROBIOLOGY*. ISSN 1531-1074, 2018, vol. 18, no. 9, pp. 1159-1170., Registrované v: WOS
- ABC12 REXOVA-BENKOVA, L. - MARKOVIČ, Oskar. Pectic enzymes. In *Advances in Carbohydrate Chemistry and Biochemistry*, 1976, vol. 33, p. 323- 385. ISSN 0065-2318.  
Citácie:  
1. [1.1] KOTNALA, Bhavya - SHASHIREKHA, M. N. - VASU, Prasanna. Purification and Characterization of a Salt-Dependent Pectin Methylsterase from *Carica papaya* Fruit Mesocarp-Exocarp Tissue. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2018, vol. 83, no. 8, pp. 2062-2070., Registrované v: WOS  
2. [1.1] OCHOA-JIMENEZ, Veronica-Alheli - BERUMEN-VARELA, Guillermo - FERNANDEZ-VALLE, Rigel - MARTIN-ERNESTO - TIZNADO-HERNANDEZ. Rhamnogalacturonan lyase: A pectin modification enzyme of higher plants. In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*. ISSN 2079-052X, 2018, vol. 30, no. 11, pp. 910-917., Registrované v: WOS
- ABC13 ŠVITEL, Juraj - TKÁČ, Ján - VOŠTIAR, Igor - NAVRÁTIL, Martin - GEMEINER, Peter. Microbial biosensors and biofuel cells based on acetobacter and gluconobacter. In *Biosensors: Properties, Materials and Applications*. - Brentwood USA : Nova Publishers, 2009, 247-264. ISBN 978-1-60741-617-3.  
Citácie:  
1. [1.1] Kamanin, S. S.; Arlyapov, V. A.; Ponamoreva, O. N.; Blokhin, I. V.; Alferov, V. A.; Reshetilov, A. N. SCREEN-PRINTED ELECTRODES MODIFIED WITH PROTEIN HYDROGEL AND BACTERIAL CELLS AS THE BASIS OF AMPEROMETRIC BIOSENSOR. In: *Sensornye Sistemy*, 2017, vol. 31, issue: 2, p. 161-171, ISSN 0235-0092., Registrované v: BIOSIS Citation Index
- ABC14 TKÁČ, Ján - DAVIS, J. Label-free field effect protein sensing. In DAVIS, J. *Engineering the Bioelectronic Interface: Applications to Analyte Biosensing and Protein Detection*. Cambridge: The Royal Society of Chemistry, 2009, chapter 7, p. 193-224. ISBN 978-0-85404-165-7.  
Citácie:  
1. [1.1] ARYA, Sunil K. - ZHURAUSKI, Pavel - JOLLY, Pawan - BATISTUTI, Marina R. - MULATO, Marcelo - ESTRELA, Pedro. Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 102, no., pp. 106-112., Registrované v: WOS
- ABC15 VADKERTIOVÁ, Renáta - SCHUSTEROVÁ, Hana, Dudášová - BALASČÁKOVÁ, Marta. Yeasts in agricultural and managed soils. In Buzzini, Pietro-Lachance, Marc-André, Yurkov, Andrey M (eds.): *Yeasts in Natural Ecosystems: Diversity*. - Cham, Switzerland : Springer International Publishing, 2017, p. 117-144. ISBN 978-3-319-62682-6.  
Citácie:  
1. [1.1] GROENEWALD, Marizeth - LOMBARD, Lorenzo - DE VRIES, Michel - LOPEZ, Alejandra Giraldo - SMITH, Maudy - CROUS, Pedro W. Diversity of yeast species from Dutch garden soil and the description of six novel Ascomycetes. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2018, vol. 18, no. 7, pp., Registrované v: WOS  
2. [1.1] SIBANC, Natasa - ZALAR, Polona - SCHROERS, Hans-Josef - ZAJC, Janja - PONTES, Ana - SAMPAIO, Jose Paulo - MACEK, Irena. *Occultifur mephitis f.a., sp nov and other yeast species from hypoxic and elevated CO2 mofette environments*. In *INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY*. ISSN 1466-5026, 2018, vol. 68, no. 7, pp. 2285-2298., Registrované v: WOS  
3. [1.1] TEPEEVA, A. N. - GLUSHAKOVA, A. M. - KACHALKIN, A. *Yeast Communities of the Moscow City Soils*. In *MICROBIOLOGY*. ISSN 0026-2617, 2018, vol. 87, no. 3, pp. 407-415., Registrované v: WOS  
4. [1.1] YURKOV, Andrey M. *Yeasts of the soil obscure but precious*. In *YEAST*. ISSN 0749-503X, 2018, vol. 35, no. 5, pp. 369-378., Registrované v: WOS
- ABC16 VALACHOVÁ, Katarína - RAPTA, Peter - SLOVÁKOVÁ, M. - PRIEŠOLOVÁ, Elena - NAGY, Milan - MISLOVIČOVÁ, Danica - DRÁFI, František - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Radical degradation of high molar mass hyaluronan induced by ascorbate plus cupric ions: Testing of arbutin in the function of antioxidant. In *Advances in kinetics and mechanism of chemical reactions*. - Oakville ; Waretown : Apple Academic Press, 2013, p. 1-18. ISBN 978-1-926895-42-0.  
Citácie:  
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and*

*Evaluation Methods. Oakville, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4*

#### ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB01 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Xylans of industrial and biomedical importance. In *Biotechnology and Genetic Engineering Reviews*, 1999, vol. 16, o. 325-346. ISSN 0264-8725.

Citácie:

1. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS
2. [1.1] PEDERSEN, Martin Jaeger - MADSEN, Robert - CLAUSEN, Mads Hartvig. Iridium catalysis: reductive conversion of glucan to xylan. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2018, vol. 54, no. 8, pp. 952-955., Registrované v: WOS
3. [1.2] GUPTA, Praveen Kumar - AGRAWAL, Pushpa - HEDGE, Prabha - AKHTAR, Mohd Sayeed. Xylooligosaccharides and their anticancer potential: An update. In *Anticancer Plants: Natural Products and Biotechnological Implements*, 2018-01-01, 2, pp. 255-271., Registrované v: SCOPUS

#### \*ADC Vedecké práce v zahraničných karentovaných časopisoch

ADC01 ALEXY, P. - KOŠÍKOVÁ, Božena - POLÓNYI, J. - PODSTRÁNSKA, G. The effect of blending lignin with polyethylene and polypropylene on physical properties. In *Polymer*, 2000, vol. 41, p. 4901-4908. (1999: 1.340 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0032-3861.

Citácie:

1. [1.1] HARI, Jozsef - SARKOZI, Mark - FOLDES, Eniko - PUKANSZKY, Bela. Long term stabilization of PE by the controlled release of a natural antioxidant from halloysite nanotubes. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2018, vol. 147, no., pp. 229-236., Registrované v: WOS
2. [1.1] JAVED, Asif - ULLSTEN, Henrik - RATTO, Peter - JARNSTROM, Lars. Lignin-containing coatings for packaging materials. In *NORDIC PULP & PAPER RESEARCH JOURNAL*. ISSN 0283-2631, 2018, vol. 33, no. 3, pp. 548-556., Registrované v: WOS
3. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). De-polymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS
4. [1.1] KIRSCHWENG, Balazs - TILINGER, Daniel Mirko - HEGELY, Bence - SAMU, Gyula - TATRAALJAI, Dora - FOLDES, Eniko - PUKANSZKY, Bela. Melt stabilization of PE with natural antioxidants: Comparison of rutin and quercetin. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2018, vol. 103, no., pp. 228-237., Registrované v: WOS
5. [1.1] LANG, Jason M. - SHRESTHA, Umesh M. - DADMUN, Mark. The effect of Plant source on the Properties of lignin-Based Polyurethanes. In *FRONTIERS IN ENERGY RESEARCH*. ISSN 2296-598X, 2018, vol. 6, no., pp., Registrované v: WOS
6. [1.1] ORTNER, Andreas - HOFER, Karin - BAUER, Wolfgang - NYANHONGO, Gibson S. - GUEBITZ, Georg M. Laccase modified liginosulfonates as novel binder in pigment based paper coating formulations. In *REACTIVE & FUNCTIONAL POLYMERS*. ISSN 1381-5148, 2018, vol. 123, no., pp. 20-25., Registrované v: WOS
7. [1.1] SALLEM-IDRISSI, N. - VAN VELTHEM, P. - SCLAVONS, M. Fully Bio-Sourced Nylon 11/Raw Lignin Composites: Thermal and Mechanical Performances. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 12, pp. 4405-4414., Registrované v: WOS
8. [1.1] SPIRIDON, Iuliana - TANASE, Constantin Edi. Design, characterization and preliminary biological evaluation of new lignin-PLA biocomposites. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 114, no., pp. 855-863., Registrované v: WOS
9. [1.1] VAN SCHOORS, Laetitia - MINERBE, Marielle Gueguen - MOSCARDELLI, Sandrine - RABII, Hajer - DAVIES, Peter. Antioxidant properties of flax fibers in polyethylene matrix composites. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 126, no., pp. 333-339., Registrované v: WOS
10. [1.1] YE, Dezhan - KONG, Jinfeng - GU, Shaojin - ZHOU, Yingshan - HUANG, Caoxing - XU, Weilin - ZHANG, Xi. Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene. In

- INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 775-781., Registrované v: WOS*
- ADC02 CAPEK, Peter - RENARD, C.M.G.C. - THIBAUT, J.F. Enzymatic degradation of cell walls of apples and characterization of solubilized products. In *International Journal of Biological Macromolecules*, 1995, vol. 17, no. 6, p. 337-340. ISSN 0141-8130.
- Citácie:
- [1.1] ELEREN, Sevil Caliskan - ALTINCEKIC, Seniz Ozis - ALTINCEKIC, Erdinc. Biofuel Potential of Fruit Juice Industry Waste. In *JOURNAL OF HAZARDOUS TOXIC AND RADIOACTIVE WASTE. ISSN 2153-5493, 2018, vol. 22, no. 4, pp., Registrované v: WOS*
  - [1.1] THI THANH HANH NGUYEN - SEO, Changseop - GU, Bon-Cheol - LIM, Hee-Jung - HA, Jung-Min - KIM, Seong-Bo - PARK, Jun-Seong - KIM, Doman. Production of steviol from steviol glucosides using beta-glucosidase from a commercial pectinase, Sumizyme PX. In *BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2018, vol. 40, no. 1, pp. 197-204., Registrované v: WOS*
- ADC03 KARDOŠOVÁ, Alžbeta - ROSÍK, J. - KUBALA, J. Enzyme preparations from *Aspergillus flavus* for structural studies of the peach gum polysaccharide. In *Folia Microbiologica*, 1979, vol. 23, p. 97. ISSN 0015-5632.
- Citácie:
- [1.1] YANG, Haiyan - WANG, Dawei - DENG, Jia - YANG, Jing - SHI, Chun - ZHOU, Fanglang - SHI, Zhengjun. Activity and Structural Characteristics of Peach Gum Exudates. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS*
- ADC04 KOŮŠ, Miroslav - STEINER, Bohumil - MIČOVÁ, Júlia - LANGER, Vratislav - ĎURÍK, M. - GYEPESOVÁ, Dalma. Synthesis and structure determination of some sugar amino acids related to alanine and 6-deoxymannojirimycin. In *Carbohydrate Research*, 2001, vol. 332, p. 351-361. (2000: 1.606 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] GRYGORENKO, Oleksandr O. - BIITSEVA, Angelina V. - ZHERSH, Serhii. Amino sulfonic acids, peptidosulfonamides and other related compounds. In *TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 13, pp. 1355-1421., Registrované v: WOS*
- ADC05 KOŠÍKOVÁ, Božena - DEMIANOVÁ, V. - KAČURÁKOVÁ, Marta. Sulfur-free lignins as composites of polypropylene films. In *Journal of Applied Polymer Science*, 1993, vol. 47, no. 6, p. 1065-1073. ISSN 0021-8995.
- Citácie:
- [1.1] SAMENI, Javad - JAFFER, Shaffiq A. - SAIN, Mohini. Thermal and mechanical properties of soda lignin/HDPE blends. In *COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING. ISSN 1359-835X, 2018, vol. 115, no., pp. 104-111., Registrované v: WOS*
  - [1.2] IBRAHIM, Abdul Haqi - RIDWAN, Muhammad Fahmi - ABIDIN, Che Zulzikrami Azner - ONG, Soon Ann - WONG, Yee Shian - AZHARI, Ayu Wazira - OZIR, Siti Norruhaidawati. Lignin recovery and it effects quality of anaerobic treated palm oil mill effluent (AT-POME). In *E3S Web of Conferences, 2018-03-19, 34, pp., Registrované v: SCOPUS*
- ADC06 KUBAČKOVÁ, Marta - KARÁCSONYI, Š. - BILISICS, Ladislav. Structure of galactoglucomannan from *Populus monilifera* H. In *Carbohydrate Polymers*, 1992, vol. 19, p. 125-129. ISSN 0144-8617.
- Citácie:
- [1.1] KOLLAROVA, Karin - KAMENICKA, Viktoria - VATEHOVA, Zuzana - LISKOVA, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In *JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 222, no., pp. 59-66., Registrované v: WOS*
- ADC07 MIČOVÁ, Júlia - STEINER, Bohumil - KOŮŠ, Miroslav - LANGER, Vratislav - ĎURÍK, M. - GYEPESOVÁ, Dalma - SMRČOK, Ľubomír. Some amino sugars structurally related to 6-deoxymannojirimycin precursors prepared from methyl 6-deoxy-2,3-O-isopropylidene-alpha-D-lyxo-hexofuranosid-5-ulose and methyl 2,3-O-isopropylidene-f-D-lyxo-pentodialdo-1,4-furanoside. In *Carbohydrate Research*, 2002, vol. 337, no. 8, p. 663-672. (2001: 1.349 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] MISTRY, Priyank P. - DESAI, Vikash A.. SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVOLUTION OF VARIOUS NOVEL HETEROCYCLIC COMPOUNDS OF HYDANTOIN AND PIPERAZINE. In *HETEROCYCLIC LETTERS. ISSN 2231-3087, 2018, vol. 8, no. 1, pp. 145-154., Registrované v: WOS*
- ADC08 MIKULASOVA, M. - KOSIKOVA, Božena. Biodegradability of lignin/polypropylene composite films. In *Folia Microbiologica*, 1999, vol. 44, no. 6, p. 669. (1998: 0.518 - IF, karentované - CCC). (1999 - Current Contents). ISSN 0015-5632.
- Citácie:



1. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
- ADC09 NOSÁLOVÁ, G. - Kardošová, Alžbeta - FRANOVA, S. Antitussive activity of a glucuronoxylan from *Rudbeckia fulgida* compared to the potency of two polysaccharide complexes from the same herb. In *Pharmazie*, 2000, vol. 55, p. 65-68. (1999: 0.446 - IF, karentované - CCC). (2000 - Current Contents).
- Citácie:
1. [1.1] SALES DA SILVA-LEITE, Kaira Emanuella - FERNANDES BEZERRA GIRAÓ, Deysen Kerlla - PIRES, Alana de Freitas - ASSREUY, Ana Maria S. - FEITOSA DE MORAES, Pedro Almir - CUNHA, Arcelina Pacheco - PONTES SILVA RICARDO, Nagila Maria - CRIDDLE, David Neil - LOIOLA PONTE DE SOUZA, Marcellus Henrique - PEREIRA, Maria Goncalves - GOMES SOARES, Pedro Marcos. *Ximenia americana* heteropolysaccharides ameliorate inflammation and visceral hypernociception in murine caerulein-induced acute pancreatitis: Involvement of CB2 receptors. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 106, no., pp. 1317-1324., Registrované v: WOS
- ADC10 ROSIK, J. - Kardošová, Alžbeta - KUBALA, J. Infrared spectroscopy of peach-gum polysaccharides from *Prunus persica* (L.) Batsch. In *Carbohydrate Research*, 1971, vol. 18, p. 151. ISSN 0008-6215.
- Citácie:
1. [1.1] LI, Chan - WANG, Xuejing - MENG, Duye - ZHOU, Li. Facile synthesis of low-cost magnetic biosorbent from peach gum polysaccharide for selective and efficient removal of cationic dyes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 1871-1878., Registrované v: WOS
- ADC11 TVAROŠKA, Igor - PEREZ, S. Conformational-energy calculations for oligosaccharides: A comparison of methods and a strategy of calculation. In *Carbohydrate Research*, 1986, vol. 149, p. 389-410. ISSN 0008-6215.
- Citácie:
1. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS
- ADC12 TVAROŠKA, Igor - GAJDOŠ, Ján. Angular dependence of vicinal carbon-proton coupling constants for the conformational studies of hydroxymethyl group in carbohydrates. In *Carbohydrate Research*, 1995, vol. 271, p. 151162. (1995 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] DHARUMAN, Suresh - AMARASEKARA, Harsha - CRICH, David. Interplay of Protecting Groups and Side Chain Conformation in Glycopyranosides. Modulation of the Influence of Remote Substituents on Glycosylation? In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 17, pp. 10334-10351., Registrované v: WOS
2. [1.1] HAMARK, Christoffer - PENDRILL, Robert - LANDSTROEM, Jens - FAGERSTROM, Alexandra Dotson - SANDGREN, Mats - STAHLBERG, Jerry - WIDMALM, Goran. Enantioselective Binding of Propranolol and Analogues Thereof to Cellobiohydrolase Cel7A. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 68, pp. 17975-17985., Registrované v: WOS

#### ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ABAD, Sandra - NAHÁLKA, Jozef - WINKLER, Margit - BERGLER, Gabriele - SPEIGHT, Robert - GLIEDER, Anton - NIDETZKY, Bernd. High-level expression of *Rhodotorula gracilis* D-amino acid oxidase in *Pichia pastoris*. In *Biotechnology Letters*, 2011, vol. 33, p. 557-563. (2010: 1.768 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0141-5492.
- Citácie:
1. [1.1] ZHANG, Xiaolin - JIANG, Anmin - QI, Banghua - YU, Hao - XIONG, Youyi - ZHOU, Guoliang - QIN, Meisong - DOU, Jinfeng - WANG, Jianfei. Secretion expression of human neutrophil peptide 1 (HNPI) in *Pichia pastoris* and its functional analysis against antibiotic-resistant *Helicobacter pylori*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 11, pp. 4817-4827., Registrované v: WOS
- ADCA02 ABAD, Sandra - NAHÁLKA, Jozef - BERGLER, Gabriele - ARNOLD, S. Alison - SPEIGHT, Robert - FOTHERINGHAM, Ian - NIDETZKY, Bernd - GLIEDER, Anton. Stepwise engineering of a *Pichia pastoris* D-amino acid oxidase whole cell catalyst. In *Microbial Cell Factories*, 2010, vol. 9, art. no. 24, (12 p. ISSN 1475-2859).
- Citácie:
1. [1.1] JUTURU, Veeresh - WU, Jin Chuan. Heterologous Protein Expression in *Pichia pastoris*:

- Latest Research Progress and Applications. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 1, pp. 7-21., Registrované v: WOS*
2. [1.1] WEI, Yu-Chia - BRAUN-GALLEANI, Stephanie - HENRIQUEZ, Maria Jose - BANDARA, Sahan - NESBETH, Darren. Biotransformation of hydroxypyruvate and glycolaldehyde to l-erythrulose by *Pichia pastoris* strain GS115 overexpressing native transketolase. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 1, pp. 99-106., Registrované v: WOS
3. [1.2] HUERTA-OCHOA, Sergio - CASTILLO-ARAIZA, Carlos Omar - GUERRERO, Angélica Román - PRADO-BARRAGÁN, Arely. Whole-Cell Bioconversion of Citrus Flavonoids to Enhance Their Biological Properties. In Studies in Natural Products Chemistry. ISSN 15725995, 2018-01-01, 61, pp. 335-367., Registrované v: SCOPUS
- ADCA03 ACCOGLI, Gianluca - DESANTIS, Salvatore - MARTINO, Nicola Antonio - DELL'AQUILA, Maria Elena - GEMEINER, Peter - KATRLÍK, Jaroslav. A lectin-based cell microarray approach to analyze the mammalian granulosa cell surface glycosylation profile. In Glycoconjugate Journal, 2016, vol. 33, p. 717-724. (2015: 1.828 - IF, Q3 - JCR, 0.744 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0282-0080.
- Citácie:
1. [1.1] HOSODA, Masae - TAKAHASHI, Yushi - SHIOTA, Masaaki - SHINMACHI, Daisuke - INOMOTO, Renji - HIGASHIMOTO, Shinichi - AOKI-KINOSHITA, Kiyoko F. MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 464, no., pp. 44-56., Registrované v: WOS
2. [1.1] ZHANG, Xiaoqing - NIE, Huan - WHITED, Joshua - WANG, Dan - LI, Yu - SUN, Xue-Long. Recent approaches for directly profiling cell surface sialoform. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 12, pp. 910-924., Registrované v: WOS
- ADCA04 ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - BIELY, Peter - COWAN, Don A. Phylogeny, classification and metagenomic bioprospecting of microbial acetyl xylan esterases. In Enzyme and Microbial Technology, 2016, vol. 93-94, p. 79-91. (2015: 2.624 - IF, Q2 - JCR, 0.850 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0141-0229.
- Citácie:
1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
2. [1.1] OH, Changsuk - RYU, Bum Han - YOO, Wanki - DUY DUC NGUYEN - KIM, Truc - HA, Sung-Chul - KIM, T. Doohun - KIM, Kyeong Kyu. Identification and Crystallographic Analysis of a New Carbohydrate Acetyltransferase (SmAcE1) from *Sinorhizobium meliloti*. In CRYSTALS. ISSN 2073-4352, 2018, vol. 8, no. 1, pp., Registrované v: WOS
3. [1.1] PARK, Young-Jin - JEONG, Yong-Un - KONG, Won-Sik. Genome Sequencing and Carbohydrate-Active Enzyme (CAZyme) Repertoire of the White Rot Fungus *Flammulina elastica*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 8, pp., Registrované v: WOS
4. [1.1] PARK, Young-Jin - KONG, Won-Sik. Genome-Wide Comparison of Carbohydrate-Active Enzymes (CAZymes) Repertoire of *Flammulina ononidis*. In MYCOBIOLOGY. ISSN 1229-8093, 2018, vol. 46, no. 4, pp. 349-360., Registrované v: WOS
5. [1.1] PINES, Gur - GILL, Ryan T. Dynamic Management of Codon Compression for Saturation Mutagenesis. In SYNTHETIC BIOLOGY: METHODS AND PROTOCOLS. ISSN 1064-3745, 2018, vol. 1772, no., pp. 171-189., Registrované v: WOS
6. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
7. [1.1] WANG, Ying - RYU, Bum Han - YOO, Wanki - LEE, Chang Woo - KIM, Kyeong Kyu - LEE, Jun Hyuck - KIM, T. Doohun. Identification, characterization, immobilization, and mutational analysis of a novel acetyltransferase with industrial potential (LaAcE) from *Lactobacillus acidophilus*. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2018, vol. 1862, no. 1, pp. 197-210., Registrované v: WOS
8. [1.2] LEE, Chang Soo - KONG, Won Sik - PARK, Young Jin. Genome sequencing and genome-wide identification of carbohydrate-active enzymes (CAZymes) in the white rot fungus *Flammulina fennae*. In Microbiology and Biotechnology Letters. ISSN 1598642X, 2018-09-01, 46, 3, pp. 300-312., Registrované v: SCOPUS
- ADCA05 AHYAYAUCH, Hasna - RAAB, Michal - BUSTO, Jon V. - ANDRAKA, Nagore - ARRONDO, José-Luis - MASSERINI, Massimo - TVAROŠKA, Igor - GONI, Félix M. Binding of beta-amyloid



(1-42) peptide to negatively charged phospholipid membranes in the liquid-ordered state: Modeling and experimental studies. In *Biophysical Journal*, 2012, vol. 103, p. 453-463. (2011: 3.653 - IF, 2.322 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-3495.

Citácie:

1. [1.1] DECZKOWSKA, Aleksandra - KEREN-SHAUL, Hadas - WEINER, Assaf - COLONNA, Marco - SCHWARTZ, Michal - AMIT, Ido. Disease-Associated Microglia: A Universal Immune Sensor of Neurodegeneration. In *CELL*. ISSN 0092-8674, 2018, vol. 173, no. 5, pp. 1073-1081., Registrované v: WOS
2. [1.1] FUHS, Thomas - KLAUSEN, Lasse Hyldgaard - SONDERSKOV, Steffan Moller - HAN, Xiaojun - DONG, Mingdong. Direct measurement of surface charge distribution in phase separating supported lipid bilayers. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 9, pp. 4538-4544., Registrované v: WOS
3. [1.1] KHONDKER, Adree - ALSOP, Richard J. - HIMBERT, Sebastian - TANG, Jennifer - SHI, An-Chang - HITCHCOCK, Adam P. - RHEINSTADTER, Maikel C. Membrane-Modulating Drugs can Affect the Size of Amyloid-beta(25-35) Aggregates in Anionic Membranes. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
4. [1.1] ROSE, Christiane - DORARD, Emilie - AUDRAIN, Mickael - GORISSE-HUSSONNOIS, Lucie - CARTIER, Nathalie - BRAUDEAU, Jerome - ALLINQUANT, Bernadette. Transient increase in sAPP alpha secretion in response to A beta 1-42 oligomers: an attempt of neuronal self-defense? In *NEUROBIOLOGY OF AGING*. ISSN 0197-4580, 2018, vol. 61, no., pp. 23-35., Registrované v: WOS
5. [1.1] SCIACCA, Michele F. M. - TEMPRA, Carmelo - SCOLLO, Federica - MILARDI, Danilo - LA ROSA, Carmelo. Amyloid growth and membrane damage: Current themes and emerging perspectives from theory and experiments on A beta and hIAPP. In *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*. ISSN 0005-2736, 2018, vol. 1860, no. 9, pp. 1625-1638., Registrované v: WOS
6. [1.1] TIWARI, Sneham - ATLURI, Venkata Subba Rao - ARIAS, Adriana Yndart - JAYANT, Rahul Dev - KAUSHIK, Afeet - GEIGER, Jonathan - NAIR, Madhavan N. Withaferin A Suppresses Beta Amyloid in APP Expressing Cells: Studies for Tat and Cocaine Associated Neurological Dysfunctions. In *FRONTIERS IN AGING NEUROSCIENCE*. ISSN 1663-4365, 2018, vol. 10, no., pp., Registrované v: WOS

ADCA06

ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Polyphosphate - an ancient energy source and active metabolic regulator. In *Microbial Cell Factories*, 2011, vol. 10, art. no. 63. (2010: 4.544 - IF). ISSN 1475-2859.

Citácie:

1. [1.1] DEVINE, Kevin M. Activation of the PhoPR-Mediated Response to Phosphate Limitation Is Regulated by Wall Teichoic Acid Metabolism in *Bacillus subtilis*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.1] HICE, Stephanie A. - SANTOSCOY, Miguel C. - SOUPIR, Michelle L. - CADEMARTIRI, Rebecca. Distinguishing between metabolically active and dormant bacteria on paper. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 1, pp. 367-375., Registrované v: WOS
3. [1.1] HUANG, Xiao-Lan. Hydrolysis of Phosphate Esters Catalyzed by Inorganic Iron Oxide Nanoparticles Acting as Biocatalysts. In *ASTROBIOLOGY*. ISSN 1531-1074, 2018, vol. 18, no. 3, pp. 294-310., Registrované v: WOS
4. [1.1] HYOJU, Sanjiv K. - KLABBERS, Robin E. - AARON, Melissa - KREZALEK, Monika A. - ZABORIN, Alexander - WIEGERINCK, Mara - HYMAN, Neil H. - ZABORINA, Olga - VAN GOOR, Harry - ALVERDY, John C. Oral Polyphosphate Suppresses Bacterial Collagenase Production and Prevents Anastomotic Leak Due to *Serratia marcescens* and *Pseudomonas aeruginosa*. In *ANNALS OF SURGERY*. ISSN 0003-4932, 2018, vol. 267, no. 6, pp. 1112-1118., Registrované v: WOS
5. [1.1] KOHL, Kid - ZANGGER, Haroun - ROSSI, Matteo - ISORCE, Nathalie - LYE, Lon-Fye - OWENS, Katherine L. - BEVERLEY, Stephen M. - MAYER, Andreas - FASEL, Nicolas. Importance of polyphosphate in the *Leishmania* life cycle. In *MICROBIAL CELL*. ISSN 2311-2638, 2018, vol. 5, no. 8, pp. 371-384., Registrované v: WOS
6. [1.1] LANGER, Simon - VOGTS, Angela - SCHULZ-VOGT, Heide N. Simultaneous Visualization of Enzymatic Activity in the Cytoplasm and at Polyphosphate Inclusions in *Beggiatoa* sp. Strain 35Flor Incubated with O-18-Labeled Water. In *MSPHERE*. ISSN 2379-5042, 2018, vol. 3, no. 6, pp., Registrované v: WOS
7. [1.1] MAAROUFI, Nadia - PALMQVIST, Kristin - BACH, Lisbet H. - BOKHORST, Stef - LIESS, Antonia - GUNDALE, Michael J. - KARDOL, Paul - NORDIN, Annika - MEUNIER, Cedric L. Nutrient optimization of tree growth alters structure and function of boreal soil food webs. In *FOREST ECOLOGY AND MANAGEMENT*. ISSN 0378-1127, 2018, vol. 428, no., pp. 46-

56., Registrované v: WOS

8. [1.1] NAKAMURA, Akihiro - KAWANO, Natsuko - MOTOMURA, Kei - KURODA, Akio - SEKIGUCHI, Kiyoshi - MIYADO, Mami - KANG, Woojin - MIYAMOTO, Yoshitaka - HANAI, Maito - IWAI, Maki - YAMADA, Mitsutoshi - HAMATANI, Toshio - SAITO, Takakazu - SAITO, Hidekazu - TANAKA, Mamoru - UMEZAWA, Akihiro - MIYADO, Kenji. Degradation of phosphate polymer polyP enhances lactic fermentation in mice. In GENES TO CELLS. ISSN 1356-9597, 2018, vol. 23, no. 10, pp. 904-914., Registrované v: WOS

9. [1.1] NOCEK, Boguslaw P. - KHUSNUTDINOVA, Anna N. - RUSZKOWSKI, Milosz - FLICK, Robert - BURDA, Malgorzata - BATYROVA, Khorcheska - BROWN, Greg - MUCHA, Artur - JOACHIMIAK, Andrzej - BERLICKI, Lukasz - YAKUNIN, Alexander F. Structural Insights into Substrate Selectivity and Activity of Bacterial Polyphosphate Kinases. In ACS CATALYSIS. ISSN 2155-5435, 2018, vol. 8, no. 11, pp. 10746-10760., Registrované v: WOS

10. [1.1] PARNELL, Alice E. - MORDHORST, Silja - KEMPER, Florian - GIURRANDINO, Mariacarmela - PRINCE, Josh P. - SCHWARZER, Nikola J. - HOFER, Alexandre - WOHLWEND, Daniel - JESSEN, Henning J. - GERHARDT, Stefan - EINSLE, Oliver - OYSTON, Petra C. F. - ANDEXER, Jennifer N. - ROACH, Peter L. Substrate recognition and mechanism revealed by ligand-bound polyphosphate kinase 2 structures. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 13, pp. 3350-3355., Registrované v: WOS

11. [1.1] PASEK, Matthew A. The Origin of the Ionized Linker: Geochemical Predestination for Phosphate? In PREBIOTIC CHEMISTRY AND CHEMICAL EVOLUTION OF NUCLEIC ACIDS. ISSN 0933-1891, 2018, vol. 35, no., pp. 175-197., Registrované v: WOS

12. [1.1] SHEN, Yanghao - ZHENG, Xinyan - WANG, Xiaoyu - WANG, Tieshan. The biomineralization process of uranium(VI) by *Saccharomyces cerevisiae* transformation from amorphous U(VI) to crystalline chernikovite. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 9, pp. 4217-4229., Registrované v: WOS

13. [1.1] SUMATHI, Malairajan - VASUDEVAN, Namasivayam. Removal of phosphate by *Staphylococcus aureus* under aerobic and alternating anaerobic-aerobic conditions. In ENVIRONMENTAL TECHNOLOGY. ISSN 0959-3330, 2018, vol. 39, no. 8, pp. 1071-1080., Registrované v: WOS

14. [1.1] TENG ZHAOJIE - ZHANG WENYAN - CHEN YIRAN - PAN HONGMIAO - XIAO TIAN - WU LONG-FEI. Characterization of dominant giant rod-shaped magnetotactic bacteria from a low tide zone of the China Sea. In JOURNAL OF OCEANOLOGY AND LIMNOLOGY. ISSN 2096-5508, 2018, vol. 36, no. 3, pp. 783-794., Registrované v: WOS

15. [1.1] WANG, Liang - YAN, Jiawei - WISE, Michael J. - LIU, Qinghua - ASENSO, James - HUANG, Yue - DAI, Shiyun - LIU, Zhazhong - DU, Yan - TANG, Daoquan. Distribution Patterns of Polyphosphate Metabolism Pathway and Its Relationships With Bacterial Durability and Virulence. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

16. [1.1] WANG, Xiuzhong - LOPEZ, Anand - LIU, Juewen. Adsorption of Phosphate and Polyphosphate on Nanoceria Probed by DNA Oligonucleotides. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 26, pp. 7899-7905., Registrované v: WOS

17. [1.1] ZHAO, Fazhu - WANG, Jieying - ZHANG, Lu - REN, Chengjie - HAN, Xinhui - YANG, Gaihe - DOUGHTY, Russell - DENG, Jian. Understory Plants Regulate Soil Respiration through Changes in Soil Enzyme Activity and Microbial C, N, and P Stoichiometry Following Afforestation. In FORESTS. ISSN 1999-4907, 2018, vol. 9, no. 7, pp., Registrované v: WOS

18. [1.2] ANDREEVA, Nadeshda - RYAZANOVA, Lubov - ZVONAREV, Anton - TRILISENKO, Ludmila - KULAKOVSKAYA, Tatiana - ELDAROV, Mikhail. Inorganic polyphosphate in methylotrophic yeasts. In Applied Microbiology and Biotechnology. ISSN 01757598, 2018-06-01, 102, 12, pp. 5235-5244., Registrované v: SCOPUS

19. [1.2] DANCHIN, Antoine - SEKOWSKA, Agnieszka - NORIA, Stanislas. Functional requirements in the program and the cell chassis for next-generation synthetic biology. In Synthetic Biology: Parts, Devices and Applications, 2018-03-15, pp. 81-106., Registrované v: SCOPUS

ADCA07

ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Degradation of polyphosphates by polyphosphate kinases from *Ruegeria pomeroyi*. In Biotechnology Letters, 2014, vol. 36, p. 2029-2035. (2013: 1.736 - IF, 0.713 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] MAHOUR, Reza - KLAPPROTH, Jan - REXER, Thomas F. T. - SCHILDBACH, Anna - KLAMT, Steffen - PIETZSCH, Markus - RAPP, Erdmann - REICHL, Udo. Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 283, no., pp. 120-129., Registrované v: WOS

2. [1.1] NOCEK, Boguslaw P. - KHUSNUTDINOVA, Anna N. - RUSZKOWSKI, Milosz - FLICK, Robert - BURDA, Malgorzata - BATYROVA, Khorcheska - BROWN, Greg - MUCHA, Artur - JOACHIMIAK, Andrzej - BERLICKI, Lukasz - YAKUNIN, Alexander F. Structural Insights into Substrate Selectivity and Activity of Bacterial Polyphosphate Kinases. In ACS CATALYSIS. ISSN 2155-5435, 2018, vol. 8, no. 11, pp. 10746-10760., Registrované v: WOS
3. [3.2] Group Author(s). Uniprot Consortium. Q5LSN8. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q5LSN8>, Registrované v: Data Citation index
4. [3.2] Group Author(s). Uniprot Consortium. Q5LU04. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q5LU04>, Registrované v: Data Citation index
5. [3.2] Group Author(s). Uniprot Consortium. Q5LX16. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q5LX16>, Registrované v: Data Citation Index

ADCA08

ALBERT, S. - KLAUDINY, Jaroslav. MRJP9, an ancient protein of the honeybee MRJP family with non-nutritional function. In Journal of Apicultural Research, 2007, vol. 46, p. 99-104. ISSN 0021-8839.

Citácie:

1. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
2. [1.1] QAO, Jiangtao - WANG, Xueyu - LIU, Liqiang - ZHANG, Hongcheng. Nonenzymatic Browning and Protein Aggregation in Royal Jelly during Room-Temperature Storage. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 8, pp. 1881-1888., Registrované v: WOS
3. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

ADCA09

ALBERT, S. - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Molecular characterization of MRJP3, highly polymorphic protein honeybee (*Apis mellifera*) royal jelly. In Insect Biochemistry and Molecular Biology, 1999, vol. 29, p. 427-434. ISSN 0965-1748.

Citácie:

1. [1.1] HYKOLLARI, Alba - MALZL, Daniel - ECKMAIR, Barbara - VANBESELAERE, Jorick - SCHEIDL, Patrick - JIN, Chunsheng - KARLSSON, Niclas G. - WILSON, Iain B. H. - PASCHINGER, Katharina. Isomeric Separation and Recognition of Anionic and Zwitterionic N-glycans from Royal Jelly Glycoproteins. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, 2018, vol. 17, no. 11, pp. 2177-2196., Registrované v: WOS
2. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS
3. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS
4. [1.1] OSTROVERKHOVA, Nadezhda - KUCHER, Aksana N. - BABUSHKINA, Nadezhda P. - KONUSOVA, Olga L. - SHARAKHOV, Igor. Variability and Structure of the Repetitive Region of the Major Royal Jelly Protein Gene mrjp3 in Honeybee *Apis mellifera* of Different Evolutionary Branches. In JOURNAL OF MOLECULAR BIOLOGY RESEARCH, 2018, vol. 8, no. 1, pp. 122-131., Registrované v: WOS
5. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
6. [1.2] METWALLY IBRAHIM, Samah E.L. - KOSBA, Ayman Ahmed. Royal jelly supplementation reduces skeletal muscle lipotoxicity and insulin resistance in aged obese rats. In Pathophysiology. ISSN 09284680, 2018-12-01, 25, 4, pp. 307-315., Registrované v: SCOPUS

ADCA10

ALBERT, S. - BHATTACHARYA, D. - KLAUDINY, Jaroslav - SCHMITZOVA, J. - ŠIMÚTH, Jozef. The family of major royal jelly proteins and its evolution. In Journal of Molecular Evolution, 1999, vol. 49, p. 290-297. ISSN 0022-2844.

Citácie:



1. [1.1] CHAI, Lin - YANG, Xianyi - LIU, Mei - LIU, Chunyan - HAN, Limei - GUO, Hui - LI, Changsheng - SUN, Yuwen - LI, Xiaoyan - XIAO, Min - FANG, Zhicheng. Biopanning of allergens from wasp sting patients. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2018, vol. 38, no., pp., Registrované v: WOS
2. [1.1] CHEN, Xi'en - CAO, Yanghui - ZHAN, Shuai - ZHANG, Yong - TAN, Anjiang - HUANG, Yongping. Identification of yellow gene family in *Agrotis ipsilon* and functional analysis of Aiyellow-y by CRISPR/Cas9. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2018, vol. 94, no., pp. 1-9., Registrované v: WOS
3. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
4. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS
5. [1.1] OSTROVERKHOVA, Nadezhda - KUCHER, Aksana N. - BABUSHKINA, Nadezhda P. - KONUSOVA, Olga L. - SHARAKHOV, Igor. Variability and Structure of the Repetitive Region of the Major Royal Jelly Protein Gene mrjp3 in Honeybee *Apis mellifera* of Different Evolutionary Branches. In JOURNAL OF MOLECULAR BIOLOGY RESEARCH, 2018, vol. 8, no. 1, pp. 122-131., Registrované v: WOS
6. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
7. [1.1] WANG, Kang - LIU, Zheng-Guo - PANG, Qian - ZHANG, Wen-Wen - CHEN, Xiao-Mei - FAN, Rong-Li - YIN, Ling - JI, Ting. Investigating the Regulation of Hypopharyngeal Gland Activity in Honeybees (*Apis mellifera carnica*) Under Overwintering Conditions via Morphologic Analysis Combined With iTRAQ-Based Comparative Proteomics. In ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA. ISSN 0013-8746, 2018, vol. 111, no. 3, pp. 127-135., Registrované v: WOS

ADCA11

ALBERT, Štefan - KLAUDINY, Jaroslav. The MRJP/YELLOW protein family of *Apis mellifera*: Identification of new members in the EST library. In Journal of Insect Physiology, 2004, vol. 50, p. 51-59. ISSN 0022-1910.

Citácie:

1. [1.1] CHAI, Lin - YANG, Xianyi - LIU, Mei - LIU, Chunyan - HAN, Limei - GUO, Hui - LI, Changsheng - SUN, Yuwen - LI, Xiaoyan - XIAO, Min - FANG, Zhicheng. Biopanning of allergens from wasp sting patients. In BIOSCIENCE REPORTS. ISSN 0144-8463, 2018, vol. 38, no., pp., Registrované v: WOS
2. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
3. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS
4. [1.1] WANG, Kang - LIU, Zheng-Guo - PANG, Qian - ZHANG, Wen-Wen - CHEN, Xiao-Mei - FAN, Rong-Li - YIN, Ling - JI, Ting. Investigating the Regulation of Hypopharyngeal Gland Activity in Honeybees (*Apis mellifera carnica*) Under Overwintering Conditions via Morphologic Analysis Combined With iTRAQ-Based Comparative Proteomics. In ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA. ISSN 0013-8746, 2018, vol. 111, no. 3, pp. 127-135., Registrované v: WOS
5. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAI DAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS

ADCA12

ALBRECHT, Claudia - VON DER KAMMER, Heinz - MAYHAUS, Manuel - KLAUDINY, Jaroslav - SCHWEIZER, Michaela - NITSCH, R.M. Muscarinic acetylcholine receptors induce the expression of the immediate early growth regulatory gene CYR61. In Journal of Biological Chemistry, 2000, vol. 275, p. 28929-28936. (1999: 6.963 - IF, karentované - CCC). (2000 - Current

Contents). ISSN 0021-9258.

Citácie:

1. [1.1] DOBRYAKOVA, Yulia V. - KASIANOV, Artem - ZAICHENKO, Maria I. - STEPANICHEV, Mikhail Y. - CHESNOKOVA, Ekaterina A. - KOLOSOV, Petr M. - MARKEVICH, Vladimir A. - BOLSHAKOV, Alexey P. Intracerebroventricular Administration of (192)IgG-Saporin Alters Expression of Microglia-Associated Genes in the Dorsal But Not Ventral Hippocampus. In *FRONTIERS IN MOLECULAR NEUROSCIENCE*. ISSN 1662-5099, 2018, vol. 10, no., pp., Registrované v: WOS
2. [1.1] HIGO, Noriyuki - SATO, Akira - YAMAMOTO, Tatsuya - OISHI, Takao - NISHIMURA, Yukio - MURATA, Yumi - ONOE, Hirotaka - ISA, Tadashi - KOJIMA, Toshio. Comprehensive analysis of area-specific and time-dependent changes in gene expression in the motor cortex of macaque monkeys during recovery from spinal cord injury. In *JOURNAL OF COMPARATIVE NEUROLOGY*. ISSN 0021-9967, 2018, vol. 526, no. 7, pp. 1110-1130., Registrované v: WOS
3. [1.1] KOLE, Koen - SCHEENEN, Wim - TIESINGA, Paul - CELIKEL, Tansu. Cellular diversity of the somatosensory cortical map plasticity. In *NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS*. ISSN 0149-7634, 2018, vol. 84, no., pp. 100-115., Registrované v: WOS
4. [1.1] SILVA, Constanza P. - HORTON, William J. - CARUSO, Michael J. - SEBASTIAN, Aswathy - KLEIN, Laura C. - ALBERTA, Istvan - KAMENS, Helen M. The influence of adolescent nicotine exposure on ethanol intake and brain gene expression. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 6, pp., Registrované v: WOS

ADCA13

ALEXY, Pavol - KOŠÍKOVÁ, Božena - CRKONOVÁ, Gabriela - GREGOROVÁ, Adriana - MARTIŠ, Pavol. Modification of lignin-polyethylene blends with high lignin content using ethylene-vinylacetate copolymer as modifier. In *Journal of Applied Polymer Science*, 2004, vol. 94, p. 1855-1860. (2003: 1.017 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] DOERRSTEIN, Joerg - SCHOLZ, Ronja - SCHWARZ, Dominik - SCHIEDER, Doris - SIEBER, Volker - WALTHER, Frank - ZOLLFRANK, Cordt. Effects of high-lignin-loading on thermal, mechanical, and morphological properties of bioplastic composites. In *COMPOSITE STRUCTURES*. ISSN 0263-8223, 2018, vol. 189, no., pp. 349-356., Registrované v: WOS
2. [1.1] YU, Chunhan - ZHANG, Wentao - BEKELE, Lemma Dadi - LU, Xiang'an - DUNS, Gregory Joseph - JIN, Leilei - JIA, Qi - CHEN, Jishuang. Characterization of Thermoplastic Composites Developed with Wheat Straw and Enzymatic-hydrolysis Lignin. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 3219-3235., Registrované v: WOS
3. [1.2] XIANG, Yonggang - LI, Zibiao. Lignin-based functional nanocomposites. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 49-80., Registrované v: SCOPUS

ADCA14

ALI, S.T. - JAHANGIR, S. - KARAMAT, S. - FABIAN, W.M.F. - NAWARA, Krzysztof Kamil - KÓŇA, Juraj. Theoretical study on the redox cycle of bovine glutathione peroxidase GPx1: pKa calculations, docking, and molecular dynamics simulations. In *Journal of Chemical Theory and Computation*, 2010, vol. 6, p. 1670-1681. (2009: 4.804 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1549-9618.

Citácie:

1. [1.1] BARAGE, Sagar H. - DEOBAGKAR, Deepti D. - BALADHYE, Vijay B. Characterization of structural and functional role of selenocysteine in selenoprotein H and its impact on DNA binding. In *AMINO ACIDS*. ISSN 0939-4451, 2018, vol. 50, no. 5, pp. 593-607., Registrované v: WOS

ADCA15

ALI, S. Tahir - KARAMAT, Sajjad - KÓŇA, Juraj - FABIAN, Walter M.F. Theoretical prediction of pKa values of seleninic, selenenic, sulfinic, and carboxylic acids by quantum-chemical methods. In *Journal of Physical Chemistry A*, 2010, vol. 114, p. 12470-12478. (2009: 2.899 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1089-5639.

Citácie:

1. [1.1] CAO, Xiaofang - RONG, Chunying - ZHONG, Aiguo - LU, Tian - LIU, Shubin. Molecular Acidity: An Accurate Description with Information-Theoretic Approach in Density Functional Reactivity Theory. In *JOURNAL OF COMPUTATIONAL CHEMISTRY*. ISSN 0192-8651, 2018, vol. 39, no. 2, pp. 117-129., Registrované v: WOS
2. [1.1] MARTZEL, Thomas - LOHIER, Jean-Francois - GAUMONT, Annie-Claude - BRIERE, Jean-Francois - PERRIO, Stephane. Sulfinate-Organocatalyzed (3+2) Annulation Reaction of Propargyl or Allenyl Sulfones with Activated Imines. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 36, pp. 5069-5073., Registrované v: WOS

ADCA16

ALTANER, Clemens - SAAKE, Bodo - TENKANEN, Maija - EYZAGUIRRE, Jaime - FAULDS, Craig B. - BIELY, Peter - VIIKARI, Liisa - SIIKA-AHO, Matti - PULS, Jurgen. Regioselective deacetylation of cellulose acetates by acetyl xylan esterases of different CE-families. In *Journal of Biotechnology*, 2003, vol. 105, p. 95-104. ISSN 0168-1656.

Citácie:

1. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Principles of Cellulose Derivatization. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, vol., no., pp. 259-292., Registrované v: WOS
  2. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS
  3. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
  4. [1.1] WATABE, Y. - SUZUKI, Y. - KOIKE, S. - SHIMAMOTO, S. - KOBAYASHI, Y. Cellulose acetate, a new candidate feed supplement for ruminant animals: In vitro evaluations. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2018, vol. 101, no. 12, pp. 10929-10938., Registrované v: WOS
  5. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
- ADCA17 ANDRE, I. - MAZEAU, K. - TARAVEL, F.R. - TVAROŠKA, Igor. Conformation and dynamics of a cyclic (1-2)- $\alpha$ -D-glucan. In International Journal of Biological Macromolecules, 1995, vol. 17, p. 189. ISSN 0141-8130.
- Citácie:
1. [1.1] CHO, Eunae - JUNG, Seunho. Biotinylated Cyclooligosaccharides for Paclitaxel Solubilization. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 1, pp., Registrované v: WOS
  2. [1.1] MAMAGHANI, Manouchehr - NIA, Roghayeh Hossein - TAVAKOLI, Fateme - JAHANSHAH, Parivash. Recent Advances in the MCRs Synthesis of Chromenes: A Review. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2018, vol. 22, no. 17, pp. 1704-1769., Registrované v: WOS
- ADCA18 ANDRE, I. - MAZEAU, K. - TARAVEL, F.R. - TVAROŠKA, Igor. NMR and molecular modelling of sophorose and sophorotriose in solution. In New Journal of Chemistry, 1995, vol. 19, p. 331. ISSN 1144-0546.
- Citácie:
1. [1.1] ABE, Koichi - SUNAGAWA, Naoki - TERADA, Tohru - TAKAHASHI, Yuta - ARAKAWA, Takatoshi - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - NAKAI, Hiroyuki - TAGUCHI, Hayao - NAKAJIMA, Masahiro - FUSHINOBU, Shinya. Structural and thermodynamic insights into beta-1,2-glucooligosaccharide capture by a solute-binding protein in *Listeria innocua*. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 23, pp. 8812-8828., Registrované v: WOS
- ADCA19 ANDRÉ, Isabelle - MAZEAU, Karim - TVAROŠKA, Igor - PUTAUX, Jean-Luc - WINTER, William T. - TARAVEL, Francois R. - CHANZY, Henry. Molecular and crystal structures of inulin from electron diffraction data. In Macromolecules, 1996, vol. 29, p. 4626-4635. (1995: 3.155 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0024-9297.
- Citácie:
1. [1.1] BALAN, C. - CHIS, M. I. - RACHISAN, A. L. - BAIA, M. A vibrational study of inulin by means of experimental and theoretical methods. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2018, vol. 1164, no., pp. 84-88., Registrované v: WOS
  2. [1.1] HUANG, Kehao - DU, Bin - XU, Baojun. Alterations in physicochemical properties and bile acid binding capacities of dietary fibers upon ultrafine grinding. In POWDER TECHNOLOGY. ISSN 0032-5910, 2018, vol. 326, no., pp. 146-150., Registrované v: WOS
  3. [1.1] ROMANO, Nelson - ARAUJO-ANDRADE, Cuauhtemoc - LECOT, Javier - MOBILI, Pablo - GOMEZ-ZAVAGLIA, Andrea. Infrared spectroscopy as an alternative methodology to evaluate the effect of structural features on the physical-chemical properties of inulins. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 109, no., pp. 223-231., Registrované v: WOS
- ADCA20 ANGULO, Jesus - HRICOVÍNI, Miloš - GAIRI, Margarida - GUERRINI, Marco - DE PAZ, José Luis - OJEDA, Rafael - MARTÍN-LOMAS, Manuel - NIETO, Pedro M. Dynamic properties of biologically active synthetic heparin-like hexasaccharides. In Glycobiology, 2005, vol. 15, p. 1008-1015. ISSN 0959-6658.
- Citácie:
1. [1.2] DAVIS, Julie Eberle - GUNDAMPATI, Ravi Kumar - JAYANTHI, Srinivas - ANDERSON, Joshua - PICKHARDT, Abigail - KOPPOLU, Bhanu prasanth - ZAHAROFF, David A. - KUMAR,



- Thallapuram Krishnaswamy Suresh. Effect of extension of the heparin binding pocket on the structure, stability, and cell proliferation activity of the human acidic fibroblast growth factor. In *Biochemistry and Biophysics Reports*, 2018-03-01, 13, pp. 45-57., Registrované v: SCOPUS
- ADCA21 ANTAL, M. - EBRINGEROVÁ, Anna - ŠIMKOVIC, Ivan. New aspects in cationization of lignocellulose materials I. In *Journal of Applied Polymer Science*, 1984, vol. 29, p. 637-642. ISSN 0021-8995.  
Citácie:  
1. [1.1] KHOSROWSHAHI, Elnaz Marzi - RAZMI, Habib. Application of sunflower stalk-carbon nitride nanosheets as a green sorbent in the solid-phase extraction of polycyclic aromatic hydrocarbons followed by high-performance liquid chromatography. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2018, vol. 41, no. 9, pp. 2020-2028., Registrované v: WOS
- ADCA22 ANTAL, Miroslav - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Structure and papermaking properties of aminoalkylxylans. In *Papier*, 1997, vol. 51, p. 223-226. ISSN 0031-1340.  
Citácie:  
1. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS
- ADCA23 ANTAL, Miroslav - EBRINGEROVÁ, Anna - ŠIMKOVIC, Ivan. New aspects in cationization of lignocellulose materials. II. Distribution of functional groups in lignin, hemicellulose, and cellulose components. In *Journal of Applied Polymer Science*, 1984, vol. 29, p. 643-650. ISSN 0021-8995.  
Citácie:  
1. [1.1] RAJAN, Kalavathy - MANN, Jeffrey K. - ENGLISH, Eldon - HARPER, David P. - CARRIER, Danielle Julie - RIALS, Timothy G. - LABBE, Nicole - CHMELY, Stephen C. Sustainable Hydrogels Based on Lignin-Methacrylate Copolymers with Enhanced Water Retention and Tunable Material Properties. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 7, pp. 2665-2672., Registrované v: WOS
- ADCA24 ANTONOV, Y.A. - LASHKO, N.P. - GLOTOVA, Y.K. - MALOVÍKOVÁ, Anna - MARKOVIČ, Oskar. Effect of the structural features of pectins and alginates on their thermodynamic compatibility with gelatin in aqueous media. In *Food Hydrocolloids*, 1996, vol. 10, p. 1-9. ISSN 0268-005X.  
Citácie:  
1. [1.1] LIU, Jun - SHIM, Youn Young - TSE, Timothy J. - WANG, Yong - REANEY, Martin J. T. Flaxseed gum a versatile natural hydrocolloid for food and non-food applications. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2018, vol. 75, no., pp. 146-157., Registrované v: WOS
- ADCA25 ARMSTRONG, Michael C. - ŠESTÁK, Sergej - ALI, Ahmed A. - SAGINI, Hanan A.M. - BROWN, Max - BATY, Karen - TREUMANN, Achim - SCHRODER, Martin. Bypass of activation loop phosphorylation by aspartate 836 in activation of the endoribonuclease activity of Ire1. In *Molecular and Cellular Biology*, 2017, vol. 37, p. e00655-16. (2016: 4.398 - IF, Q1 - JCR, 3.478 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0270-7306.  
Citácie:  
1. [1.1] ABDULLAH, Ahmad - RAVANAN, Palaniyandi. The unknown face of IRE1 alpha Beyond ER stress. In *EUROPEAN JOURNAL OF CELL BIOLOGY*. ISSN 0171-9335, 2018, vol. 97, no. 5, pp. 359-368., Registrované v: WOS  
2. [1.1] BHOIR, Siddhant - SHAIK, Althaf - THIRUVENKATAM, Vijay - KIRUBAKARAN, Sivapriya. High yield bacterial expression, purification and characterisation of bioactive Human Tousled-like Kinase 1B involved in cancer. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS  
3. [1.1] TANG, Chih-Hang Anthony - CHANG, Shiun - PATON, Adrienne W. - PATON, James C. - GABRILOVICH, Dmitry I. - PLOEGH, Hidde L. - DEL VALLE, Juan R. - HU, Chih-Chi Andrew. Phosphorylation of IRE1 at S729 regulates RIDD in B cells and antibody production after immunization. In *JOURNAL OF CELL BIOLOGY*. ISSN 0021-9525, 2018, vol. 217, no. 5, pp. 1739-1755., Registrované v: WOS  
4. [1.2] LI, Jianrong - YU, Qilin - ZHANG, Bing - XIAO, Chenpeng - MA, Tianyu - YI, Xiao - LIANG, Chao - LI, Mingchun. Stress-associated endoplasmic reticulum protein 1 (SERP1) and Atg8 synergistically regulate unfolded protein response (UPR) that is independent on autophagy in *Candida albicans*. In *International Journal of Medical Microbiology*. ISSN 14384221, 2018-04-01, 308, 3, pp. 378-386., Registrované v: SCOPUS
- ADCA26 ARROYO, Javier - FARKAŠ, Vladimír - SANZ, Ana B - CABIB, Enrico. 'Strengthening the fungal cell wall through chitin-glucan cross-links: effects on morphogenesis and cell integrity'. In *Cellular Microbiology*, 2016, vol. 18, p. 1239-1250. (2015: 4.460 - IF, Q1 - JCR, 2.932 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1462-5814.  
Citácie:

1. [1.1] CHEN, Miaomiao - WANG, Likun - HOU, Junliang - YANG, Shushen - ZHENG, Xin - CHEN, Liang - LI, Xiaofang. Mycoextraction: Rapid Cadmium Removal by Macrofungi-Based Technology from Alkaline Soil. In MINERALS, 2018, vol. 8, no. 12, pp., Registrované v: WOS
2. [1.1] DUBA, Adrian - GORIEWA-DUBA, Klaudia - WACHOWSKA, Urszula. A Review of the Interactions between Wheat and Wheat Pathogens: *Zymoseptoria tritici*, *Fusarium spp.* and *Parastagonospora nodorum*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS
3. [1.1] LIU, Yang - CHEN, Jiareng - CUI, Bin - YIN, Pengfei - ZHANG, Chao. Design and Preparation of Biomass-Derived Carbon Materials for Supercapacitors: A Review. In C-JOURNAL OF CARBON RESEARCH, 2018, vol. 4, no. 4, pp., Registrované v: WOS
- ADCA27 BABINCOVÁ, Melánia - BAČOVÁ, Zuzana - MACHOVÁ, Eva - KOGAN, Grigorij. Antioxidant properties of carboxymethyl glucan: Comparative analysis. In Journal of Medicinal Food, 2002, vol. 5, p. 79-83. ISSN 1096-620X.
- Citácie:
1. [1.1] CARVALHO-GALVAO, Alynne - GADELHA, Danilo D. A. - DE BRITO ALVES, Jose L. - KHAN, Barkat A. - CASTRO-GOMEZ, Raul J. H. - CRUZ, Josiane C. - MAGNANI, Marciane - BRAGA, Valdir A. A Newly Isolated Carboxymethyl-Glucan (CM-G) Restores Depressed Baroreflex Sensitivity in Renovascular Hypertensive Rats. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.1] CIFTCI, Osman - DUMAN, Ahmet Sefa - TURKMEN, Nese Basak - TASLIDERE, Asli. Beta-glucan prevents toxic effects of 2,3,7,8-TCDD in terms of oxidative and histopathological damage in heart tissue of rats. In BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1984-8250, 2018, vol. 54, no. 3, pp., Registrované v: WOS
3. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS
4. [1.1] LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 572-579., Registrované v: WOS
5. [1.1] SONAT, Fusun Ak - ALCAY, Selim - TOKER, Mehmed Berk - PEKER, Sabire - USTUNER, Burcu. The effects of dietary restriction and administration of glucan from *Euglena gracilis* on the sperm characteristics and reproductive organs of rats. In ANDROLOGIA. ISSN 0303-4569, 2018, vol. 50, no. 9, pp., Registrované v: WOS
6. [1.2] KOC, F. - ERISGIN, Z. - TEKELIOGLU, Y. - TAKIR, S. The effect of beta glucan on MTX induced testicular damage in rats. In Biotechnic and Histochemistry. ISSN 10520295, 2018-01-02, 93, 1, pp. 70-75., Registrované v: SCOPUS
- ADCA28 BACHANOVA, K. - KLAUDINY, Jaroslav - KOPERNICKY, J. - ŠIMÚTH, Jozef. Identification of honeybee peptide active against *Paenibacillus* larvae larvae through bacterial growth-inhibition assay on polyacrylamide gel. In Apidologie, 2002, vol. 33, p. 259-269. ISSN 0044-8435.
- Citácie:
1. [1.1] BUCEKOVA, Marcela - BURIOVA, Monika - PEKARIK, Ladislav - MAJTAN, Viktor - MAJTAN, Juraj. Phytochemicals-mediated production of hydrogen peroxide is crucial for high antibacterial activity of honeydew honey. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BUCEKOVA, Marcela - JURICOVA, Valeria - MONTON, Enrique - MARTINOTTI, Simona - RANZATO, Elia - MAJTAN, Juraj. Microwave processing of honey negatively affects honey antibacterial activity by inactivation of bee-derived glucose oxidase and defensin-1. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 240, no., pp. 1131-1136., Registrované v: WOS
3. [1.1] HUSSAIN, Muhammad Barkaat. Role of Honey in Topical and Systemic Bacterial Infections. In JOURNAL OF ALTERNATIVE AND COMPLEMENTARY MEDICINE. ISSN 1075-5535, 2018, vol. 24, no. 1, pp. 15-24., Registrované v: WOS
4. [1.2] KHAZAEI, Mozafar - ANSARIAN, Atefe - GHANBARI, Elham. New Findings on Biological Actions and Clinical Applications of Royal Jelly: A Review. In Journal of Dietary Supplements. ISSN 19390211, 2018-09-03, 15, 5, pp. 757-775., Registrované v: SCOPUS
5. [1.2] METWALLY IBRAHIM, Samah E.L. - KOSBA, Ayman Ahmed. Royal jelly supplementation reduces skeletal muscle lipotoxicity and insulin resistance in aged obese rats. In Pathophysiology. ISSN 09284680, 2018-12-01, 25, 4, pp. 307-315., Registrované v: SCOPUS
6. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In Bioengineering, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS



ADCA29

BAILEY, Michael J. - **BIELY, Peter** - POUTANEN, K. Interlaboratory testing of methods for assay of xylanase activity. In *Journal of Biotechnology*, 1992, vol. 23, p. 257-270. ISSN 0168-1656.

Citácie:

1. [1.1] ABD EL-NASSER, Nadia H. - EL-MAHDY, El Sayed M. - SHOSHA, Wafaa G. H. - EL SAYED, Gehad H. Isolation and Screening of Pectinolytic *Streptomyces* Sp. From Soil Samples of Egypt. In *RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES*. ISSN 0975-8585, 2018, vol. 9, no. 2, pp. 744-751., Registrované v: WOS
2. [1.1] ARONSSON, Anna - GULER, Fatma - PETOUKHOV, Maxim V. - CRENNELL, Susan J. - SVERGUN, Dmitri I. - LINARES-PASTEN, Javier A. - KARLSSON, Eva Nordberg. Structural insights of RmXyn10A-A prebiotic-producing GH10 xylanase with a non-conserved aglycone binding region. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. ISSN 1570-9639, 2018, vol. 1866, no. 2, pp. 292-306., Registrované v: WOS
3. [1.1] BAPTISTA, Sara L. - CUNHA, Joana T. - ROMANI, Aloia - DOMINGUES, Lucilia. Xylitol production from lignocellulosic whole slurry corn cob by engineered industrial *Saccharomyces cerevisiae* PE-2. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 267, no., pp. 481-491., Registrované v: WOS
4. [1.1] BASOTRA, Neha - JOSHI, Swati - SATYANARAYANA, T. - PATI, Pratap Kumar - TSANG, Adrian - CHADHA, Bhupinder S. Expression of catalytically efficient xylanases from thermophilic fungus *Malbranchea cinnamomea* for synergistically enhancing hydrolysis of lignocellulosics. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 185-192., Registrované v: WOS
5. [1.1] BELT, Tiina - MOLLERUP, Filip - HANNINEN, Tuomas - RAUTKARI, Lauri. Inhibitory effects of Scots pine heartwood extractives on enzymatic holocellulose hydrolysis by wood decaying fungi. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 132, no., pp. 150-156., Registrované v: WOS
6. [1.1] BERIKASHVILI, Violet - SOKHADZE, Kakha - KACHLISHVILI, Eva - ELISASHVILI, Vladimir - CHIKINDAS, Michael L. *Bacillus amyloliquefaciens* Spore Production Under Solid-State Fermentation of Lignocellulosic Residues. In *PROBIOTICS AND ANTIMICROBIAL PROTEINS*. ISSN 1867-1306, 2018, vol. 10, no. 4, pp. 755-761., Registrované v: WOS
7. [1.1] BHARTI, Amit Kumar - KUMAR, Amit - KUMAR, Alok - DUTT, Dharm. Exploitation of *Parthenium hysterophorus* biomass as low-cost substrate for cellulase and xylanase production under solid-state fermentation using *Talaromyces stipitatus* MTCC 12687. In *JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES*. ISSN 1687-8507, 2018, vol. 11, no. 4, pp. 271-280., Registrované v: WOS
8. [1.1] BIBRA, Mohit - KUNREDDY, Venkat Reddy - SANI, Rajesh K. Thermostable Xylanase Production by *Geobacillus* sp Strain DUSELR13, and Its Application in Ethanol Production with Lignocellulosic Biomass. In *MICROORGANISMS*. ISSN 2076-2607, 2018, vol. 6, no. 3, pp., Registrované v: WOS
9. [1.1] BURLACU, Aglaia - ISRAEL-ROMING, Florentina - CORNEA, Calina Petruta. SCREENING OF MICROORGANISMS DISPLAYING ACETYL XYLAN ESTERASE ACTIVITY. In *SCIENTIFIC PAPERS-SERIES B-HORTICULTURE*. ISSN 2285-5653, 2018, vol. 62, no., pp. 715-720., Registrované v: WOS
10. [1.1] CHARLES-RODRIGUEZ, Veronica - GUERRERO-MATA, Alejandro - MARTINEZ-VAZQUEZ, Gabriela - CRUZ-HERNANDEZ, Mario A. - BELMARES-CERDA, Ruth E. - ROBLEDO, Armando. Bioreactor Analysis for the Corn-Cob Valorization in the Xylanase Production. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 6, pp. 995-1001., Registrované v: WOS
11. [1.1] COOPER-BRIBIESCA, Barbara - NAVARRO-OCANA, Arturo - DIAZ-RUIZ, Gloria - AGUILAR-OSORIO, Guillermo - RODRIGUEZ-SANOJA, Romina - WACHER, Carmen. Lactic Acid Fermentation of Arabinoxylan From Nejayote by *Streptococcus infantarius* ssp. *infantarius* 25124 Isolated From Pozol. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
12. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. *Eucalyptus* xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
13. [1.1] CUERTEN, Christin - ANDERS, Nico - JUCHEM, Niels - IHLING, Nina - VOLKENBORN, Kristina - KNAPP, Andreas - JAEGER, Karl-Erich - BUECHS, Jochen - SPIESS, Antje C. Fast automated online xylanase activity assay using HPAEC-PAD. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 1, pp. 57-69., Registrované v: WOS
14. [1.1] DAL PICOLLI, Thais - AVER, Kaliane Regalin - FONTANA, Roselei Claudete -

- CAMASSOLA, Marli. High-performance of *Agaricus blazei* fungus for the biological pretreatment of elephant grass. In *BIOTECHNOLOGY PROGRESS*. ISSN 8756-7938, 2018, vol. 34, no. 1, pp. 42-50., Registrované v: WOS
15. [1.1] DANG, Ya-hui - LIU, Ming-qi - WANG, Qian. Inhibiting the Catalytic Activity of Family GH11 Xylanases by Recombinant Rice Xylanase-Inhibiting Protein. In *CATALYSIS LETTERS*. ISSN 1011-372X, 2018, vol. 148, no. 7, pp. 2139-2148., Registrované v: WOS
16. [1.1] DENG, Fang - AITA, Giovanna M. Detoxification of dilute ammonia pretreated energy cane bagasse enzymatic hydrolysate by soluble polyelectrolyte flocculants. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 112, no., pp. 681-690., Registrované v: WOS
17. [1.1] DENG, Fang - AITA, Giovanna M. Fumaric Acid Production by *Rhizopus oryzae* ATCCA (R) 20344 (TM) from Lignocellulosic Syrup. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2018, vol. 11, no. 2, pp. 330-340., Registrované v: WOS
18. [1.1] DENG, Fang - CHEONG, Dae-Yeol - AITA, Giovanna M. Optimization of activated carbon detoxification of dilute ammonia pretreated energy cane bagasse enzymatic hydrolysate by response surface methodology. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 115, no., pp. 166-173., Registrované v: WOS
19. [1.1] DING, Changhe - LI, Mengxing - HU, Yuqi. High-activity production of xylanase by *Pichia stipitis*: Purification, characterization, kinetic evaluation and xylooligosaccharides production. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 72-77., Registrované v: WOS
20. [1.1] DOS SANTOS, Jaqueline Pozzada - ZAVAREZE, Eleonora da Rosa - GUERRA DIAS, Alvaro Renato - VANIER, Nathan Leven. Immobilization of xylanase and xylanase-beta-cyclodextrin complex in polyvinyl alcohol via electrospinning improves enzyme activity at a wide pH and temperature range. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 1676-1684., Registrované v: WOS
21. [1.1] DOS SANTOS, Tamires Carvalho - REIS, Nadabe dos Santos - SILVA, Tatielle Pereira - FERREIRA BONOMO, Renata Cristina - AGUIAR-OLIVEIRA, Elizama - DE OLIVEIRA, Julieta Rangel - FRANCO, Marcelo. Production, Optimisation and Partial Characterisation of Enzymes from Filamentous Fungi Using Dried Forage Cactus Pear as Substrate. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 571-579., Registrované v: WOS
22. [1.1] DUTTA, Dipanjan - BANERJEE, Sudeshna - MUKHERJEE, Anjan - GHOSH, Koushik. POTENTIAL GUT ADHERENT PROBIOTIC BACTERIA ISOLATED FROM ROHU, LABEO ROHITA (ACTINOPTERYGII: CYPRINIFORMES: CYPRINIDAE): CHARACTERISATION, EXO-ENZYME PRODUCTION, PATHOGEN INHIBITION, CELL SURFACE HYDROPHOBICITY, AND BIO-FILM FORMATION. In *ACTA ICHTHYOLOGICA ET PISCATORIA*. ISSN 0137-1592, 2018, vol. 48, no. 3, pp. 221-233., Registrované v: WOS
23. [1.1] ELEGBEDE, J. A. - LATEEF, A. Valorization of Corn-Cob by Fungal Isolates for Production of Xylanase in Submerged and Solid State Fermentation Media and Potential Biotechnological Applications. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 8, pp. 1273-1287., Registrované v: WOS
24. [1.1] ELISASHVILI, Vladimir - KACHLISHVILI, Eva - ASATIANI, Mikheil D. Efficient production of lignin-modifying enzymes and phenolics removal in submerged fermentation of olive mill by-products by white-rot basidiomycetes. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 134, no., pp. 39-47., Registrované v: WOS
25. [1.1] FANG, Chunjuan - CHEN, Xiaoyan. Potential biocontrol efficacy of *Trichoderma atroviride* with cellulase expression regulator *ace1* gene knock-out. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 7, pp., Registrované v: WOS
26. [1.1] FARHAT-KHEMAKHEM, Ameny - BLIBECH, Monia - BOUKHRIS, Ines - MAKNI, Mohamed - CHOUAYEKH, Hichem. Assessment of the potential of the multi-enzyme producer *Bacillus amyloliquefaciens* US573 as alternative feed additive. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2018, vol. 98, no. 3, pp. 1208-1215., Registrované v: WOS
27. [1.1] FERNANDES DUARTE, Alysson Wagner - BARATO, Mariana Blanco - NOBRE, Fernando Suzigan - POLEZEL, Danilo Augusto - DE OLIVEIRA, Tassio Brito - DOS SANTOS, Juliana Aparecida - RODRIGUES, Andre - SETTE, Lara Duraes. Production of cold-adapted enzymes by filamentous fungi from King George Island, Antarctica. In *POLAR BIOLOGY*. ISSN 0722-4060, 2018, vol. 41, no. 12, pp. 2511-2521., Registrované v: WOS
28. [1.1] FONSECA, Rafael F. - MELO, Caio C. B. - SANCHES, Beatriz B. C. P. - BERTUCCINETO, Victor - FARINAS, Cristiane S. - KWONG, Wu H. Modelling of solid-state fermentation over wide operational range for application in process optimization. In *CANADIAN JOURNAL*

- OF CHEMICAL ENGINEERING. ISSN 0008-4034, 2018, vol. 96, no. 8, pp. 1723-1734., Registrované v: WOS
29. [1.1] GAUTERIO, Gabrielle Victoria - VIEIRA, Matheus Cardoso - GARCIA DA SILVA, Larissa Goncalves - HUBNER, Tamires - LADEIRA SANZO, Ana Virginia - KALIL, Susana Juliano. Production of xylanolytic enzymes and xylooligosaccharides by *Aureobasidium pullulans* CCT 1261 in submerged cultivation. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 335-345., Registrované v: WOS
30. [1.1] GHAYOUR-NAJAFABADI, Peiman - KHOSRAVINIA, Heshmatollah - GHEISARI, Abbasali - AZARFAR, Arash - KHANAHMADI, Morteza. Productive performance, nutrient digestibility and intestinal morphometry in broiler chickens fed corn or wheat-based diets supplemented with bacterial- or fungal-originated xylanase. In ITALIAN JOURNAL OF ANIMAL SCIENCE. ISSN 1594-4077, 2018, vol. 17, no. 1, pp. 165-174., Registrované v: WOS
31. [1.1] GHEISARI, A. - NAJAFABADI, P. Ghayour - KHOSRAVINIA, H. Energy utilisation and growth performance of broilers receiving maize or wheat based diets supplemented with bacterial or fungal originated xylanase. In EUROPEAN POULTRY SCIENCE. ISSN 1612-9199, 2018, vol. 82, no., pp., Registrované v: WOS
32. [1.1] HAHN SCHNEIDER, Willian Daniel - DOS REIS, Laisa - FONTANA, Roselei Claudete - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Exploring strategies for the use of glycerol in the production of cellulases and xylanases, and the use of these enzymes in the hydrolysis of lignocellulosic biomass. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 122, no., pp. 114-118., Registrované v: WOS
33. [1.1] HAN, Zhenggang - SHANG-GUAN, Fang - YANG, Jiangke. Characterization of a novel cold-active xylanase from *Luteimonas* species. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 8, pp., Registrované v: WOS
34. [1.1] HARAHA, Budi Mandra - KRESNOWATI, Made Tri Ari Penia. Moderate pretreatment of oil palm empty fruit bunches for optimal production of xylitol via enzymatic hydrolysis and fermentation. In BIOMASS CONVERSION AND BIOREFINERY. ISSN 2190-6815, 2018, vol. 8, no. 2, pp. 255-263., Registrované v: WOS
35. [1.1] HO, Hooi Ling. Biotechnology of Microbial Xylanase: Overview. In RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY. ISSN 2327-9354, 2018, vol., no., pp. 294-325., Registrované v: WOS
36. [1.1] HUSSAIN, H. - NGAINI, Z. - CHONG, N. F-M. Modified bicinechonic acid assay for accurate determination of variable length reducing sugars in carbohydrates. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2018, vol. 25, no. 6, pp. 2614-2619., Registrované v: WOS
37. [1.1] JIN, Wenyao - XU, Xiaochen - YANG, Fenglin - LI, Conglin - ZHOU, Ming. Performance enhancement by rumen cultures in anaerobic co-digestion of corn straw with pig manure. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 115, no., pp. 120-129., Registrované v: WOS
38. [1.1] KANDIYIL, S. - MALEK, R. Abdul - AZIZ, R. - EL ENSHASY, H. A. Development of an Industrially Feasible Medium for Enhanced Production of Extremely Thermophilic Recombinant Endo-1,4-beta-xylanase by *Escherichia coli*. In JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH. ISSN 0022-4456, 2018, vol. 77, no. 1, pp. 41-49., Registrované v: WOS
39. [1.1] KHAMBHATY, Yasmin - AKSHAYA, R. - SUGANYA, C. Rama - SREERAM, Kalarical Janardhanan - RAO, Jonnalagadda Raghava. A logical and sustainable approach towards bamboo pulp bleaching using xylanase from *Aspergillus nidulans*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 452-459., Registrované v: WOS
40. [1.1] KHAT-UDOMKIRI, Nuntawat - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - LAILERD, Narissara - PEERAJAN, Sartjin - CHAIYASUT, Chaiyavat. Optimization of alkaline pretreatment and enzymatic hydrolysis for the extraction of xylooligosaccharide from rice husk. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
41. [1.1] KIM, Dal Rye - LIM, Hee Kyung - LEE, Kee In - HWANG, In Taek. Identification of a New 1,4-beta-D-xylosidase Pae1263 from the Whole Genome Sequence of *Paenibacillus terrae* HPL-003. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 2, pp. 168-175., Registrované v: WOS
42. [1.1] KISIDAYOVA, Svetlana - PRISTAS, Peter - ZIMOVCÁKOVÁ, Michaela - WENCELOVÁ, Monika Blánar - HOMOL'OVÁ, Lucia - MIHALIKOVÁ, Katarína - COBANOVÁ, Klaudia - GRESÁKOVÁ, L'ubomira - VARADYOVÁ, Zora. The effects of high dose of two manganese supplements (organic and inorganic) on the rumen microbial ecosystem. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
43. [1.1] KUMAR, Bharti Amit - AMIT, Kumar - ALOK, Kumar - DHARM, Dutt. Wheat bran



- fermentation for the production of cellulase and xylanase by *Aspergillus niger* NFCCI 4113. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2018, vol. 13, no. 5, pp. 11-18., Registrované v: WOS
44. [1.1] KUMAR, Vishal - SHUKLA, Pratyosh. Extracellular xylanase production from *T. lanuginosus* VAPS24 at pilot scale and thermostability enhancement by immobilization. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 71, no., pp. 53-60., Registrované v: WOS
45. [1.1] LI, Hailong - WU, Hongli - JIANG, Fengjiao - WU, Jinlian - XUE, Yong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression and Characterization of an Acidic GH11 Family Xylanase from *Hypocrea orientalis*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 228-238., Registrované v: WOS
46. [1.1] LI, Qian - AL LOMAN, Abdullah - CALLOW, Nicholas V. - ISLAM, S. M. Mahfuzul - JU, Lu-Kwang. Leveraging pH profiles to direct enzyme production (cellulase, xylanase, polygalacturonase, pectinase, alpha-galactosidase, and invertase) by *Aspergillus foetidus*. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 137, no., pp. 247-254., Registrované v: WOS
47. [1.1] LI, Qin - SUN, Baoguo - LI, Xiuting - XIONG, Ke - XU, Youqiang - YANG, Ran - HOU, Jie - TENG, Chao. Improvement of the catalytic characteristics of a salt-tolerant GH10 xylanase from *Streptomyces rochei* L10904. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 1447-1455., Registrované v: WOS
48. [1.1] LI, Qin - WU, Qihua - SUN, Baoguo - YANG, Ran - HOU, Xia - TENG, Chao - ZHANG, Chengnan - LI, Xiuting. Effect of disulfide bridge on hydrolytic characteristics of xylanase from *Penicillium janthinellum*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 405-413., Registrované v: WOS
49. [1.1] LI, Xinli - HUANG, Can - YU, Xinlei - LIU, Shuang - WANG, Zhiwen - TANG, Ya-Jie - CHEN, Tao. Highly efficient hemicellulose utilization for acetoin production by an engineered *Bacillus subtilis*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2018, vol. 93, no. 12, pp. 3428-3435., Registrované v: WOS
50. [1.1] LI, Yong-Hao - ZHANG, Xiao-Yue - ZHANG, Fei - PENG, Liang-Cai - ZHANG, Da-Bing - KONDO, Akihiko - BAI, Feng-Wu - ZHAO, Xin-Qing. Optimization of cellulolytic enzyme components through engineering *Trichoderma reesei* and on-site fermentation using the soluble inducer for cellulosic ethanol production from corn stover. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
51. [1.1] LI, Zhihong - ZHANG, Xiaoshuai - WANG, Qingqing - LI, Chunran - ZHANG, Nianying - ZHANG, Xinkai - XU, Birui - MA, Baoliang - SCHRADER, Tobias E. - COATES, Leighton - KOVALEVSKY, Andrey - HUANG, Yandong - WAN, Qun. Understanding the pH-Dependent Reaction Mechanism of a Glycoside Hydrolase Using High-Resolution X-ray and Neutron Crystallography. In *ACS CATALYSIS*. ISSN 2155-5435, 2018, vol. 8, no. 9, pp. 8058-8069., Registrované v: WOS
52. [1.1] LIN, Hui - SUN, Mei-Jing - LI, Jia-Huan - XU, Quan-Ming - YANG, Bin - WANG, Qi - XIE, Wei-Jie - SUN, Shu-Jing - HU, Kai-Hui - ZHANG, Liao-Yuan. Purification and Characterization of Xylanase from Spent Mushroom Compost and its Application in Saccharification of Biomass Wastes. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 1, pp. 220-230., Registrované v: WOS
53. [1.1] LIU, Xueqiang - LIU, Yu - JIANG, Zhengqiang - LIU, Haijie - YANG, Shaoqing - YAN, Qiaojuan. Biochemical characterization of a novel xylanase from *Paenibacillus barengoltzii* and its application in xylooligosaccharides production from corncobs. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 264, no., pp. 310-318., Registrované v: WOS
54. [1.1] LONG, Chuannan - CHENG, Yijin - CUI, Jingjing - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Enhancing Cellulase and Hemicellulase Production in *Trichoderma orientalis* EU7-22 via Knockout of the *creA*. In *MOLECULAR BIOTECHNOLOGY*. ISSN 1073-6085, 2018, vol. 60, no. 1, pp. 55-61., Registrované v: WOS
55. [1.1] MA, Lijuan - MA, Qing - CAI, Rui - ZONG, Zhiyou - DU, Liping - GUO, Gaojie - ZHANG, Yingying - XIAO, Dongguang. Effect ofmannanase domain from *Trichoderma reesei* on its biochemical characters and synergistic hydrolysis of sugarcane bagasse. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2018, vol. 98, no. 7, pp. 2540-2547., Registrované v: WOS
56. [1.1] MA, Lijuan - MA, Qing - GUO, Gaojie - DU, Liping - ZHANG, Yingying - CUI, Youzhi - XIAO, Dongguang. Optimization of sodium percarbonate pretreatment for improving 2,3-butanediol production from corncob. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2018, vol. 48, no. 3, pp. 218-225., Registrované v: WOS
57. [1.1] MALHOTRA, Girisha - CHAPADGAONKAR, Shilpa S. Production and applications of

- xylanases – An overview. In *Biotechnologia*. ISSN 08607796, 2018-01-01, 99, 1, pp. 59-72., Registrované v: WOS
58. [1.1] MEEHNIAN, Harmanpreet - JANA, Asim K. - JANA, Mithu Maiti. Variation in Particle Size, Moisture Content and Supplements for Improvement of Cotton Stalks'; Lignin Degradation by *Phlebia radiata* and Saccharification. In *INDIAN CHEMICAL ENGINEER*. ISSN 0019-4506, 2018, vol. 60, no. 2, pp. 196-209., Registrované v: WOS
59. [1.1] MEHNATI-NAJAFABADI, Vajihe - TAHERI-KAFRANI, Asghar - BORDBAR, Abdol-Khalegh. Xylanase immobilization on modified superparamagnetic graphene oxide nanocomposite: Effect of PEGylation on activity and stability. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 418-425., Registrované v: WOS
60. [1.1] MI, Lan - YANG, Bin - HU, Xialu - LUO, Yang - LIU, Jianxin - YU, Zhongtang - WANG, Jiakun. Comparative Analysis of the Microbiota Between Sheep Rumen and Rabbit Cecum Provides New Insight Into Their Differential Methane Production. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
61. [1.1] MOHAMED, Magda A. - GHANEM, Manal M. E. - ABD-ELAZIZ, Ahmed M. - SHAMS-ELDIN, Ibrahim M. Purification and characterization of xylanase isoenzymes from red palm weevil *Rhynchophorus ferrugineus*. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2018, vol. 14, no., pp. 321-327., Registrované v: WOS
62. [1.1] NOGUEIRA, Cleitiane da Costa - DE ARAUJO PADILHA, Carlos Eduardo - DE SA LEITAO, Ana Laura - ROCHA, Patricia Maria - DE MACEDO, Gorete Ribeiro - DOS SANTOS, Everaldo Silvino. Enhancing enzymatic hydrolysis of green coconut fiber-Pretreatment assisted by tween 80 and water effect on the post-washing. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 112, no., pp. 734-740., Registrované v: WOS
63. [1.1] OLADI, Saeed - AITA, Giovanna M. Interactive effect of enzymes and surfactant on the cellulose digestibility of un-washed and washed dilute ammonia pretreated energy cane bagasse. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 109, no., pp. 221-230., Registrované v: WOS
64. [1.1] PATANE, Cristina - PELLEGRINO, Alessandra - DI SILVESTRO, Isabella. Effects of calcium carbonate application on physiology, yield and quality of field-grown tomatoes in a semi-arid Mediterranean climate. In *CROP & PASTURE SCIENCE*. ISSN 1836-0947, 2018, vol. 69, no. 4, pp. 411-418., Registrované v: WOS
65. [1.1] QIN, Lei - ZHAO, Xiong - LI, Wen-Chao - ZHU, Jia-Qing - LIU, Li - LI, Bing-Zhi - YUAN, Ying-Jin. Process analysis and optimization of simultaneous saccharification and co-fermentation of ethylenediamine-pretreated corn stover for ethanol production. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
66. [1.1] RAHMANI, Nanik - KAHAR, Prihardi - LISDIYANTI, Puspita - HERMIATI, Euis - LEE, Jaemin - YOPI - PRASETYA, Bambang - OGINO, Chiaki - KONDO, Akihiko. Xylanase and feruloyl esterase from actinomycetes cultures could enhance sugarcane bagasse hydrolysis in the production of fermentable sugars. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2018, vol. 82, no. 5, pp. 904-915., Registrované v: WOS
67. [1.1] SAJIB, Mursalin - FALCK, Peter - SARDARI, Roya R. R. - MATHEW, Sindhu - GREY, Carl - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Valorization of Brewer's spent grain to prebiotic oligosaccharide: Production, xylanase catalyzed hydrolysis, in-vitro evaluation with probiotic strains and in a batch human fecal fermentation model. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 268, no., pp. 61-70., Registrované v: WOS
68. [1.1] SANDRI, Ivana Greice - DA SILVEIRA, Mauricio Moura. Production and Application of Pectinases from *Aspergillus niger* Obtained in Solid State Cultivation. In *BEVERAGES*. ISSN 2306-5710, 2018, vol. 4, no. 3, pp., Registrované v: WOS
69. [1.1] SANGO, Chakarvati - KAUR, Prabhjot - BHARDWAJ, Nishi K. - SHARMA, Jitender. Bacterial cellulase treatment for enhancing reactivity of prehydrolysed kraft dissolving pulp for viscose. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 6, pp., Registrované v: WOS
70. [1.1] SAROJ, Paramjeet - MANASA, P. - NARASIMHULU, Korrapati. Characterization of thermophilic fungi producing extracellular lignocellulolytic enzymes for lignocellulosic hydrolysis under solid-state fermentation. In *BIORESOURCES AND BIOPROCESSING*, 2018, vol. 5, no., pp., Registrované v: WOS
71. [1.1] SHAH, Firoz - MALI, Tuulia - LUNDELL, Taina K. Polyporales Brown Rot Species *Fomitopsis pinicola*: Enzyme Activity Profiles, Oxalic Acid Production, and Fe<sup>3+</sup>-Reducing Metabolite Secretion. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 8, pp., Registrované v: WOS
72. [1.1] SHANTHI, Vasamsetty - ROYMON, Marthoor George. Isolation, Identification and Partial Optimization of Novel Xylanolytic Bacterial Isolates from Bhilai-Durg Region,

- Chhattisgarh, India. In *IRANIAN JOURNAL OF BIOTECHNOLOGY*. ISSN 1728-3043, 2018, vol. 16, no. 3, pp. 200-212., Registrované v: WOS
73. [1.1] SHAWKY, Bahaa T. - RAGAB, Tamer I. M. - HUSSEIN, Hussein M. - ZAHRAN, Magdy K. Optimization of Cellulolytic enzymes production from local potent fungi using full factorial design for bioethanol production from MFEX-treated rice straw using *Klebsiella oxytoca* P2. In *BIOSCIENCE RESEARCH*. ISSN 1811-9506, 2018, vol. 15, no. 1, pp. 250-261., Registrované v: WOS
74. [1.1] SHUDDHODANA - GUPTA, Munishwar N. - BISARIA, Virendra S. Effectiveness of cross-linked enzyme aggregates of cellulolytic enzymes in hydrolyzing wheat straw. In *JOURNAL OF BIOENGINEERING*. ISSN 1389-1723, 2018, vol. 126, no. 4, pp. 445-450., Registrované v: WOS
75. [1.1] SINGH, Namita - DEVI, Anita - JARYAL, Rajneesh - RANI, Kaushalya. An Ecofriendly and Efficient Strategy for Cost Effective Production of Lignocellulotic Enzymes. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 6, pp. 891-898., Registrované v: WOS
76. [1.1] SINGLA, Diksha - TAGGAR, Monica Sachdeva - KOCHER, Gurminder Singh - KALIA, Anu. CELLULASE PRODUCTION BY *ASPERGILLUS FUMIGATUS* USING DIFFERENT PLANT-BASED AGRICULTURAL BIOMASS FOR PADDY STRAW SACCHARIFICATION. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2018, vol. 52, no. 9-10, pp. 803-813., Registrované v: WOS
77. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS
78. [1.1] TANG, Hongting - WANG, Jiajing - WANG, Shenghuan - SHEN, Yu - PETRANOVIC, Dina - HOU, Jin - BAO, Xiaoming. Efficient yeast surface-display of novel complex synthetic cellulosomes. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS
79. [1.1] TERRONE, Carol Cabral - DE FREITAS, Caroline - FANCHINI TERRASAN, Cesar Rafael - DE ALMEIDA, Alex Fernando - CARMONA, Eleonora Cano. Agroindustrial biomass for xylanase production by *Penicillium chrysogenum*: Purification, biochemical properties and hydrolysis of hemicelluloses. In *ELECTRONIC JOURNAL OF BIOTECHNOLOGY*. ISSN 0717-3458, 2018, vol. 33, no., pp. 39-45., Registrované v: WOS
80. [1.1] UDAY, Uma Shankar Prasad - GOSWAMI, Saswata - GOPIKRISHNA, Konga - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Identification of markers at various stages of batch fermentation and improved production of xylanase using *Aspergillus niger* (KP874102.1). In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 8, pp., Registrované v: WOS
81. [1.1] WANG, Juan - GONG, Yanfen - ZHAO, Shengming - LIU, Gang. A new regulator of cellulase and xylanase in the thermophilic fungus *Myceliophthora thermophila* strain ATCC 42464. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
82. [1.1] WANG, Zhao - WINESTRAND, Sandra - GILLGREN, Thomas - JONSSON, Leif J. Chemical and structural factors influencing enzymatic saccharification of wood from aspen, birch and spruce. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 109, no., pp. 125-134., Registrované v: WOS
83. [1.1] WU, Xinxing - HUANG, Chen - ZHAI, Shengcheng - LIANG, Chen - HUANG, Caoping - LAI, Chenhuan - YONG, Qiang. Improving enzymatic hydrolysis efficiency of wheat straw through sequential autohydrolysis and alkaline post-extraction. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 251, no., pp. 374-380., Registrované v: WOS
84. [1.1] XIE, Xiao - YANG, Chunlei - GUAN, Le L. - WANG, Jiakun - XUE, Mingyuan - LIU, Jian X. Persistence of Cellulolytic Bacteria *Fibrobacter* and *Treponema* After Short-Term Corn Stover-Based Dietary Intervention Reveals the Potential to Improve Rumen Fibrolytic Function. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
85. [1.1] YADAVA, Sudha. Research Advancements in Pharmaceutical, Nutritional, and Industrial Enzymology Foreword. In *RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY*. ISSN 2327-9354, 2018, vol., no., pp. XVI-+, Registrované v: WOS
86. [1.1] YEGIN, Sirma - ALTINEL, Burak - TULUK, Kubra. A novel extremophilic xylanase produced on wheat bran from *Aureobasidium pullulans* NRRL Y-2311-1: Effects on dough rheology and bread quality. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 81, no., pp. 389-397., Registrované v: WOS
87. [1.1] ZHANG, Dongdong - WANG, Yi - ZHANG, Chunfang - ZHENG, Dan - GUO, Peng - CUI, Zongjun. Characterization of a Thermophilic Lignocellulose-Degrading Microbial Consortium with High Extracellular Xylanase Activity. In *JOURNAL OF MICROBIOLOGY AND*



- BIOTECHNOLOGY. ISSN 1017-7825, 2018, vol. 28, no. 2, pp. 305-313., Registrované v: WOS 88. [1.1] ZHANG, Fei - ZHAO, Xinqing - BAI, Fengwu. Improvement of cellulase production in *Trichoderma reesei* Rut-C30 by overexpression of a novel regulatory gene *Trvib-1*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 247, no., pp. 676-683., Registrované v: WOS
89. [1.1] ZHANG, Jie - WANG, Yue-Hai - QU, Yong-Shui - WEI, Quan-Yuan - LI, Hong-Qiang. Effect of the organizational difference of corn stalk on hemicellulose extraction and enzymatic hydrolysis. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 112, no., pp. 698-704., Registrované v: WOS
90. [1.1] ZHANG, Jie - WANG, Yue-Hai - WEI, Quan-Yuan - DU, Xiao-Jia - QU, Yong-Shui. Investigating desorption during ethanol elution to improve the quality and antioxidant activity of xylo-oligosaccharides from corn stalk. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 249, no., pp. 342-347., Registrované v: WOS
91. [1.2] AL-ASKAR, Abdulaziz Abdulrahman - SABER, Wesam Eldin Ismail Ali - GHONEEM, Khalid Mohamed - RASHAD, Younes Mohamed. Oxalic acid as the main molecule produced by *trichoderma asperellum* MG323528 fermented on corn stover based medium. In Biotechnology. ISSN 1682296X, 2018-01-01, 17, 2, pp. 95-103., Registrované v: SCOPUS
92. [1.2] BELORKAR, S. A. - KAUSAR, H. Preliminary screening of molds for production of xylanase. In Journal of Pure and Applied Microbiology. ISSN 09737510, 2018-03-01, 12, 2, pp. 161-164., Registrované v: SCOPUS
93. [1.2] CHATURVEDI, Shivani - KUMARI, Arti - BHATACHARYA, Amrik - SHARMA, Anamika - NAIN, Lata - KHARE, Sunil K. Banana peel waste management for single-cell oil production. In Energy, Ecology and Environment. ISSN 23637692, 2018-10-01, 3, 5, pp. 296-303., Registrované v: SCOPUS
94. [1.2] GAUTAM, Archana - KUMAR, Amit - BHARTI, Amit Kumar - DUTT, Dharm. Rice straw fermentation by *Schizophyllum commune* ARC-11 to produce high level of xylanase for its application in pre-bleaching. In Journal of Genetic Engineering and Biotechnology. ISSN 1687157X, 2018-12-01, 16, 2, pp. 693-701., Registrované v: SCOPUS
95. [1.2] ISMAIL, M. A. - MOUBASHER, A. H. - MOHAMED, Ramadan A. - AL-BEDAK, O. A. Agro-industrial residues as alternative sources for cellulases and xylanases production and purification of xylanase produced by *Aspergillus flavus* AUMC 10331 isolated from extreme habitat. In Current Research in Environmental and Applied Mycology, 2018-01-01, 8, 3, pp. 313-322., Registrované v: SCOPUS
96. [1.2] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the  $\beta$ -xyl1 gene in *Trichoderma orientalis* EU7-22. In 3 Biotech. ISSN 2190572X, 2018-01-01, 8, 1, pp., Registrované v: SCOPUS
97. [1.2] MANAN, Musaalbakri Abdul - WEBB, Colin. Evaluation of standard procedures for inoculum transfer for homogeneous distribution during the start-up of a fungal solid state fermentation process. In Journal of Biotech Research, 2018-01-01, 9, pp. 48-57., Registrované v: SCOPUS
98. [1.2] WANG, Juan - GONG, Yanfen - LAI, Yapeng - DENG, Tingting - XIE, Ning - LIU, Gang. The effect of RNA interference of *MHR1* on cellulase activity in *Myceliophthora thermophila*. In Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering. ISSN 10002618, 2018-01-30, 35, 1, pp. 15-21., Registrované v: SCOPUS
99. [1.2] WANG, Zhao - WINESTRAND, Sandra - GILLGREN, Thomas - JÖNSSON, Leif J. Chemical and structural factors influencing enzymatic saccharification of wood from aspen, birch and spruce. In Biomass and Bioenergy. ISSN 09619534, 2018-02-01, 109, pp. 125-134., Registrované v: SCOPUS
100. [3.2] Suganya, W. Bioprospecting of a phyllospheric microorganism-*Aspergillus niger* for crude xylanase enzyme production. In: International Journal of Botany Studies, 2018, volume: 3, Issue: 6, Pages: 45-47, ISSN 2455-541X, Registrované v: BIOSIS Citation Index:

ADCA30

BALESTRI, Mirko - CECCARINI, Alessio - FORINO, Laura Maria Constantina - ZELKO, Ivan - MARTINKA, Michal - LUX, Alexander - CASTIGLIONE, Monica Ruffini. Cadmium uptake, localization and stress-induced morphogenic response in the fern *Pteris Vittata*. In *Planta*, 2014, vol. 239, p. 1055-1064. (2013: 3.376 - IF, 1.562 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0032-0935.

Citácie:

1. [1.1] CAMPOS, Naiara Viana - ARCANJO-SILVA, Samara - FREITAS-SILVA, Larisse - DE ARAUJO, Talita Oliveira - SOUZA-FERNANDES, Daniela Pinto - AZEVEDO, Aristeia Alves. Arsenic hyperaccumulation in *Pityrogramma calomelanos* L. (Link): adaptive traits to deal with high metalloid concentrations. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 11, pp. 10720-10729., Registrované v: WOS

2. [1.1] KONG, Xiangpei - LI, Cuiling - ZHANG, Feng - YU, Qianqian - GAO, Shan - ZHANG, Maolin - TIAN, Huiyu - ZHANG, Jian - YUAN, Xianzheng - DING, Zhaojun. Ethylene promotes cadmium-induced root growth inhibition through EIN3 controlled XTH33 and LSU1 expression in *Arabidopsis*. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2018, vol. 41, no. 10, pp. 2449-2462., Registrované v: WOS
- ADCA31 BÁLINT, Š. - FARKAŠ, Vladimír - BAUER, Š. Biosynthesis of  $\beta$ -glucans catalyzed by a particulate enzyme preparation from yeast. In *FEBS Letters*, 1976, vol. 64, no., p. 44-47. ISSN 1873-3468.  
Citácie:  
1. [1.1] PAPASPYRIDIS, Lefki-Maria - ZERVA, Anastasia - TOPAKAS, Evangelos. Biocatalytic Synthesis of Fungal  $\beta$ -Glucans. In *CATALYSTS*. ISSN 2073-4344, 2018, vol. 8, no. 7, pp., Registrované v: WOS  
2. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS
- ADCA32 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - MENDICHI, Raniero - MISLOVIČOVÁ, Danica - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Effect of bucillamine on free-radical-mediated degradation of high-molar-mass hyaluronan induced in vitro by ascorbic acid and Cu(II) ions. In *Polymers*, 2014, vol. 6, no. 10, p. 2625-2644. (2013: 2.505 - IF, 0.910 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 2073-4360.  
Citácie:  
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakville, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA33 BARAN, Richard - KOCHI, Hayataro - SAITO, Natsumi - SUEMATSU, Makoto - SOGA, Tomoyoshi - NISHIOKA, Takaaki - ROBERT, Martin - TOMITA, Masaru. MathDAMP: a package for differential analysis of metabolite profiles. In *BMC Bioinformatics*, 2006, vol. 7, p. 1-9. ISSN 1471-2105.  
Citácie:  
1. [1.1] CORRIAS, Giuseppe - BALESTRIERI, Antonella - POLITI, Carola - BARBERINI, Luigi - SABA, Luca. Metabolomic and Imaging: A Literature Review. In *CURRENT MEDICAL IMAGING REVIEWS*. ISSN 1573-4056, 2018, vol. 14, no. 6, pp. 887-898., Registrované v: WOS  
2. [1.2] RAMAUTAR, Rawi. CHAPTER 3: Capillary Electrophoresis-Mass Spectrometry Using Non-covalently Coated Capillaries for Metabolic Profiling of Biological Samples. In *New Developments in NMR*. ISSN 2044253X, 2018-01-01, 2018-January, 6, pp. 53-65., Registrované v: SCOPUS  
3. [1.2] YAN, Shikai - NAGLE, Dale G. - ZHOU, Yu Dong - ZHANG, Weidong. Application of Systems Biology in the Research of TCM Formulae. In *Systems Biology and Its Application in TCM Formulas Research*, 2018-02-20, pp. 31-67., Registrované v: SCOPUS
- ADCA34 BARÁTH, Marek - HANSEN, Steen U. - DALTON, Charlotte - JAYSON, Gordon C. - MILLER, Gavin J. - GARDINER, John M. Modular synthesis of heparin-related tetra-, hexa- and octasaccharides with differential O-6 protections: programming for regio-defined 6-O-modifications. In *Molecules*, 2015, vol. 20, p. 6167-6180. (2014: 2.416 - IF, Q2 - JCR, 0.725 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1420-3049.  
Citácie:  
1. [1.1] HERCZEG, Mihály - DEMETER, Fruzsina - BALOGH, Timea - KELEMEN, Viktor - BORBAS, Aniko. Rapid Synthesis of l-Idosyl Glycosyl Donors from Thioglucosides for the Preparation of Heparin Disaccharides. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 25, pp. 3312-3316., Registrované v: WOS
- ADCA35 BARTUSIK, D. - TOMANEK, B. - LATTOVÁ, Erika - PERREAULT, H. - TUSZYNSKI, J. - FALLONE, G. The efficacy of new colchicine derivatives and variability of the T-Lymphoblastoid cells in three-dimensional culture using 19F MRI and HPLC-UV ex vivo. In *Bioorganic Chemistry*, 2009, vol. 37, p. 193-201. (2008: 1.958 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0045-2068.  
Citácie:  
1. [1.1] MOREIRA, Debora A. R. - DE OLIVEIRA, Fernando M. - PIMENTEL, Dilton M. - GUEDES, Tiago J. - LUZ, Rita C. S. - DAMOS, Flavio S. - PEREIRA, Arnaldo C. - DA SILVA, Rodrigo A. B. - DOS SANTOS, Wallans T. P. Determination of Colchicine in Pharmaceutical Formulations and Urine by Multiple-Pulse Amperometric Detection in an FIA System Using Boron-Doped Diamond Electrode. In *JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY*. ISSN 0103-5053, 2018, vol. 29, no. 9, pp. 1796-1802., Registrované v: WOS
- ADCA36 BAUEROVÁ, Katarína - PAULOVIČOVÁ, Ema - MIHALOVÁ, Danica - DRÁFI, František -



ŠTROSOVÁ, Miriam - MASCIA, Cinzia - BIASI, Fiorella - ROVENSKÝ, Jozef - KUCHARSKÁ, Jarmila - GVOZDJÁKOVÁ, Anna - PONIŠT, Silvester. Combined methotrexate and coenzyme Q10 therapy in adjuvant-induced arthritis evaluated using parameters of inflammation and oxidative stress. In *Acta Biochimica Polonica*, 2010, vol. 57, no. 3, p. 347-354. (2009: 1.262 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0001-527X.

Citácie:

1. [1.1] VETVICKA, Vaclav - VETVICKOVA, Jana. Combination Therapy with Glucan and Coenzyme Q(10) in Murine Experimental Autoimmune Disease and Cancer. In *ANTICANCER RESEARCH*. ISSN 0250-7005, 2018, vol. 38, no. 6, pp. 3291-3297., Registrované v: WOS
2. [1.2] RAAFAT, M.H. - HAMAM, G.G. - FARHAN, M.S. - SABBAGH, L.M. - ABEDULDAEM, N.M. - SHARAF, A.M. Evaluation of the possible therapeutic role of omega-3 on ankle joint and lung in a model of rheumatoid arthritis in rats: A histological and immunohistochemical study. In *EGYPTIAN JOURNAL OF HISTOLOGY*. ISSN 1110-0559, 2018, vol. 41, no. 3, p. 250-263., Registrované v: SCOPUS

ADCA37

BAUEROVÁ, Katarína - PAULOVIČOVÁ, Ema - MIHALOVÁ, Danica - ŠVÍK, Karol - PONIŠT, Silvester. Study of new ways of supplementary and combinatory therapy of rheumatoid arthritis with immunomodulators. Glucmannan and Imunoglukan® in adjuvant arthritis. In *Toxicology and Industrial Health*, 2009, vol. 25, no. 4-5, p. 329-335. (2008: 0.700 - IF). ISSN 0748-2337.

Citácie:

1. [1.1] ABD ELHALEM, Sahar Sobhy - HAGGAG, Nawal Zakaria - EL-SHINNAWY, Nashwa Ahmed. Bone marrow mesenchymal stem cells suppress IL-9 in adjuvant-induced arthritis. In *AUTOIMMUNITY*. ISSN 0891-6934, 2018, vol. 51, no. 1, pp. 25-34., Registrované v: WOS
2. [1.1] CASTILLO, Teresa A. - LEMOS, Renata A. - PEREIRA, Jose Raimundo G. - ALVES, Jose Maria A. - TELXEIRA, Maria Francisca S. Mycelial Growth and Antimicrobial Activity of *Pleurotus* Species (Agaricomycetes). In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 2, pp. 191-200., Registrované v: WOS
3. [1.1] CHATURVEDI, Vivek Kumar - AGARWAL, Sonam - GUPTA, Krishna Kumar - RAMTEKE, Pramod W. - SINGH, M. P. Medicinal mushroom: boon for therapeutic applications. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 8, art. no. 334., Registrované v: WOS
4. [1.2] KHAN, A.A. - GANI, A. - KHANDAY, F.A. - MASOODI, F.A. Biological and pharmaceutical activities of mushroom  $\beta$ -glucan discussed as a potential functional food ingredient. In *BIOACTIVE CARBOHYDRATES AND DIETARY FIBRE*. ISSN 2212-6198, 2018, vol. 16, p. 1-13., Registrované v: SCOPUS

ADCA38

BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - PAULOVIČOVÁ, Ema - VOLPI, Nikola. Chondroitin sulfate effect on induced arthritis in rats. In *Osteoarthritis and Cartilage*, 2011, vol. 19, no. 11, p. 1373-1379. (2010: 3.953 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1063-4584.

Citácie:

1. [1.1] HASAN, Hiba - ISMAIL, Hanan - EL-ORFALI, Youmna - KHAWAJA, Ghada. Therapeutic benefits of Indole-3-Carbinol in adjuvant-induced arthritis and its protective effect against methotrexate induced-hepatic toxicity. In *BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1472-6882, 2018, vol. 18, art. no. 337., Registrované v: WOS
2. [1.1] JOO, In-Hwan - MIN, Ga-Yul - CHOI, Hak-Joo - SIM, Boo-Yong - KIM, Hwa-Young - KIM, Jin - JI, Joong-Gu - KIM, Jung-Hwan - KIM, Dong-Hee. Effects of chondroitin sulfate on modulation of MMPs and TIMP-1 in a monosodium iodoacetate-induced osteoarthritis model. In *INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE*. ISSN 1940-5901, 2018, vol. 11, no. 10, pp. 10749-10757., Registrované v: WOS

ADCA39

BELICKÁ, Ľudmila, Kľuková - BERTÓK, Tomáš - TKÁČ, Ján. Properties and electrochemical use of graphene. Vlastnosti a elektrochemické využitie grafénu. In *Chemické Listy*, 2014, vol. 108, p. 653-659. (2013: 0.196 - IF, 0.201 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0009-2770.

Citácie:

1. [1.1] HAJKOVA, Zdenka - BAUEROVA, Pavla - FEJFAR, Antonin - SLOUF, Miroslav. Electron Microscope The Key to the Secrets of the Micro- and Nanoworld. In *CHEMICKE LISTY*. ISSN 0009-2770, 2018, vol. 112, no. 2, pp. 128-134., Registrované v: WOS

ADCA40

BELICKÁ, Ľudmila, Kľuková - FILIP, Jaroslav - BELICKÝ, Štefan - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. In *Analyst*, 2016, vol. 141, p. 4278-4282. (2015: 4.033 - IF, Q1 - JCR, 1.252 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2654.

Citácie:

1. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2018, vol. 48, no. 4, pp.

- 279-292., *Registrované v: WOS*
- ADCA41 BELICKÝ, Štefan - DAMBORSKÝ, Pavel - ZAPATERO-RODRÍGUEZ, Julia - O'KENNEDY, Richard - TKÁČ, Ján. Full-length antibodies versus single chain antibody fragments for a selective impedimetric lectin-based glycoprofiling of prostate specific antigen. In *Electrochimica Acta*, 2017, vol. 246, p. 399-405. (2016: 4.798 - IF, Q1 - JCR, 1.355 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0013-4686.
- Citácie:*
1. [1.1] *DUAN, Fenghe - ZHANG, Shuai - YANG, Longyu - ZHANG, Zhihong - HE, Linghao - WANG, Minghua. Bifunctional aptasensor based on novel two-dimensional nanocomposite of MoS<sub>2</sub> quantum dots and g-C<sub>3</sub>N<sub>4</sub> nanosheets decorated with chitosan-stabilized Au nanoparticles for selectively detecting prostate specific antigen. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2018, vol. 1036, no., pp. 121-132., Registrované v: WOS*
- ADCA42 BELICKÝ, Štefan - ČERNOCKÁ, Hana - BERTÓK, Tomáš - HOLAZOVÁ, Alena, Šedivá - RÉBLOVÁ, Kamila - PALEČEK, Emil - TKÁČ, Ján - OSTATNÁ, Veronika. Label-free chronopotentiometric glycoprofiling of prostate specific antigen using sialic acid recognizing lectins. In *Bioelectrochemistry*, 2017, vol. 117, p. 89-94. (2016: 3.346 - IF, Q1 - JCR, 0.750 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1567-5394.
- Citácie:*
1. [1.1] *MIAO, Peng - JIANG, Yiting - WANG, Yuanhong - YIN, Jian - TANG, Yuguo. An electrochemical approach capable of prostate specific antigen assay in human serum based on exonuclease-aided target recycling amplification. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 257, no., pp. 1021-1026., Registrované v: WOS*
- ADCA43 BELLA, Maroš - YAN, Shi - ŠESTÁK, Sergej - KOZMON, Stanislav - LIN, Chun-Hung - MUCHA, Ján - KOŇŠ, Miroslav. Synthesis of a  $\beta$ -D-psicofuranosyl sulfone and inhibitory-activity evaluation against N-acetylglucosaminyltransferase. In *European Journal of Organic Chemistry*, 2017, vol. 2017, p. 6179-6191. (2016: 2.834 - IF, Q2 - JCR, 1.177 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1434-193X.
- Citácie:*
1. [1.1] *UEDA, Atsushi - NISHIMURA, Yuri - MAKURA, Yui - TANAKA, Masakazu - UENISHI, Jun'ichi. beta-SELECTIVE D-PSICOFURANOSYLATION OF PYRIMIDINE BASES AND THIOLS. In HETEROCYCLES. ISSN 0385-5414, 2018, vol. 97, no. 2, pp. 729-743., Registrované v: WOS*
- ADCA44 BERTÓK, Tomáš - KLUKOVA, Ludmila - SEDIVA, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. In *Analytical Chemistry*, 2013, vol. 85, p. 7324 - 7332. (2012: 5.695 - IF, 2.674 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0003-2700.
- Citácie:*
1. [1.1] *DARWISH, Nadiya T. - SEKARAN, Shamala D. - ALIAS, Yatimah - KHOR, Sook Mei. Immunofluorescence-based biosensor for the determination of dengue virus NS1 in clinical samples. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 149, no., pp. 591-602., Registrované v: WOS*
2. [1.1] *SIERRA, Tania - CRISTINA GONZALEZ, Maria - MORENO, Begona - CREVILLEN, Agustin G. - ESCARPA, Alberto. Total alpha(1)-acid glycoprotein determination in serum samples using disposable screen-printed electrodes and osmium (VI) as electrochemical tag. In TALANTA. ISSN 0039-9140, 2018, vol. 180, no., pp. 206-210., Registrované v: WOS*
3. [1.1] *SUN, Xiuhua - WANG, Huaixin - WANG, Yuanyuan - GUI, Taijiang - WANG, Ke - GAO, Changlu. Creation of antifouling microarrays by photopolymerization of zwitterionic compounds for protein assay and cell patterning. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 102, no., pp. 63-69., Registrované v: WOS*
4. [1.1] *TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS*
- ADCA45 BERTÓK, Tomáš - ŠEDIVÁ, Alena - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Comparison of the 2D and 3D nanostructured lectin-based biosensors for In situ detection of sialic acid on glycoproteins. In *International Journal of Electrochemical Science*, 2014, vol. 9, p. 890-900. (2013: 1.956 - IF, 0.522 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1452-3981.
- Citácie:*
1. [1.1] *BASU, J. - BARAL, A. - SAMANTA, N. - MUKHERJEE, N. - ROYCHAUDHURI, C. Low Noise Field Effect Biosensor with Electrochemically Reduced Graphene Oxide. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2018, vol. 165, no. 8, pp. B3201-B3207., Registrované v: WOS*

2. [1.1] BASU, Joyeeta - SAMANTA, Nirmalya - JANA, Sukhendu - ROYCHAUDHURI, Chirasree. Towards reliability enhancement of graphene FET biosensor in complex analyte: Artificial neural network approach. In MICROELECTRONICS RELIABILITY. ISSN 0026-2714, 2018, vol. 91, no., pp. 154-159., Registrované v: WOS
3. [1.1] MAL, Abhinaba - BOSE, Rajarshi - ROYCHAUDHURI, Chirasree. High Performance Biosensor Based on Electronic Transduction of Refractive Index Using 3D Nanostructured Biogenic Silica. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2018, vol. 5, no. 3, pp. 9783-9789., Registrované v: WOS
4. [1.1] RAY, R. - BASU, J. - GAZI, W. A. - SAMANTA, N. - BHATTACHARYA, K. - ROYCHAUDHURI, C. Label-Free Biomolecule Detection in Physiological Solutions With Enhanced Sensitivity Using Graphene Nanogrids FET Biosensor. In IEEE TRANSACTIONS ON NANOBIOSCIENCE. ISSN 1536-1241, 2018, vol. 17, no. 4, pp. 433-442., Registrované v: WOS
- ADCA46 BERTÓK, Tomáš - HOLAZOVÁ-ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNEĽ, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum. In Langmuir, 2015, vol. 31, p. 7148-7157. (2014: 4.457 - IF, Q1 - JCR, 1.816 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0743-7463.
- Citácie:
1. [1.1] FARZIN, Leila - SHAMSIPUR, Mojtaba. Recent advances in design of electrochemical affinity biosensors for low level detection of cancer protein biomarkers using nanomaterial-assisted signal enhancement strategies. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 147, no., pp. 185-210., Registrované v: WOS
2. [1.1] RODOVALHO, V. R. - ARAUJO, G. R. - VAZ, E. R. - UEIRA-VIEIRA, C. - GOULART, L. R. - MADURRO, J. M. - BRITO-MADURRO, A. G. Peptide-based electrochemical biosensor for juvenile idiopathic arthritis detection. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 100, no., pp. 577-582., Registrované v: WOS
- ADCA47 BERTÓK, Tomáš - GEMEINER, Pavol - MIKULA, Milan - GEMEINER, Peter - TKÁČ, Ján. Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. In Microchimica Acta, 2013, vol. 180, p. 151-159. (2012: 3.434 - IF, 1.108 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0026-3672.
- Citácie:
1. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
2. [1.1] JAYEOYE, Titilope John - CHEEWASEDTHAM, Wilairat - PUTSON, Chatchai - RUJIRALAI, Thitima. Colorimetric determination of sialic acid based on boronic acid-mediated aggregation of gold nanoparticles. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 9, pp., Registrované v: WOS
3. [1.1] SANCHEZ-TIRADO, Esther - GONZALEZ-CORTES, Araceli - YANEZ-SEDENO, Paloma - PINGARRON, Jose M. Magnetic multiwalled carbon nanotubes as nanocarrier tags for sensitive determination of fetuin in saliva. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 113, no., pp. 88-94., Registrované v: WOS
- ADCA48 BERTÓK, Tomáš - KATRLÍK, Jaroslav - GEMEINER, Peter - TKÁČ, Ján. Electrochemical lectin based biosensors as a label-free tool in glycomics. In Microchimica Acta, 2013, vol. 180, p. 1-13. (2012: 3.434 - IF, 1.108 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0026-3672.
- Citácie:
1. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS
2. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In CANCER LETTERS. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
3. [1.1] TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS
- ADCA49 BERTÓK, Tomáš - SEDIVA, A. - KATRLÍK, Jaroslav - GEMEINER, Peter - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In Talanta, 2013, vol. 108, p. 11-18. (2012: 3.498 - IF, 1.421 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0039-9140.
- Citácie:
1. [1.1] BHATTARAI, Jay K. - NEUPANE, Dharmendra - NEPAL, Bishal - MIKHAYLOV, Vasilii -



- DEMCHENKO, Alexei V. - STINE, Keith J. Preparation, Modification, Characterization, and Biosensing Application of Nanoporous Gold Using Electrochemical Techniques. In *NANOMATERIALS*. ISSN 2079-4991, 2018, vol. 8, no. 3, pp., Registrované v: WOS
2. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
3. [1.1] KWON, Jinju - AHN, Kwang-Soo - JEONG, Daeho - CHOI, Han Nim - LEE, Won-Yong. Highly Sensitive Determination of Concanavalin A Lectin Based on Silver-Enhanced Electrogenated Chemiluminescence of Luminol. In *ANALYTICAL LETTERS*. ISSN 0003-2719, 2018, vol. 51, no. 13, pp. 2114-2127., Registrované v: WOS
4. [1.1] PIRES, F. - JULIA ARCOS-MARTINEZ, M. - CRISTINA DIAS-CABRAL, A. - VIDAL, Juan C. - CASTILLO, Juan R. A rapid magnetic particle-based enzyme immunoassay for human cytomegalovirus glycoprotein B quantification. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2018, vol. 156, no., pp. 372-378., Registrované v: WOS
5. [1.1] SALEK-MAGHSOUDI, Armin - VAKHSHITEH, Faezeh - TORABI, Raheleh - HASSANI, Shokoufeh - GANJALI, Mohammad Reza - NOROUZI, Parviz - HOSSEINI, Morteza - ABDOLLAHI, Mohammad. Recent advances in biosensor technology in assessment of early diabetes biomarkers. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 99, no., pp. 122-135., Registrované v: WOS
6. [1.1] SANCHEZ-TIRADO, Esther - GONZALEZ-CORTES, Araceli - YANEZ-SEDENO, Paloma - PINGARRON, Jose M. Magnetic multiwalled carbon nanotubes as nanocarrier tags for sensitive determination of fetuin in saliva. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 113, no., pp. 88-94., Registrované v: WOS
7. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In *CANCER LETTERS*. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
- ADCA50 BEYE, M. - NEUMANN, P. - SCHMITZOVÁ, J. - KLAUDINY, Jaroslav - ALBERT, S. - ŠIMÚTH, Jozef - FELDER, M. - MORITZ, R.F.A. A simple, non-radioactive DNA fingerprinting method for identifying patriline in honeybee colonies. In *Apidologie*, 1998, vol. 29, p. 255-263. ISSN 0044-8435.
- Citácie:
1. [1.1] QAO, Jiangtao - WANG, Xueyu - LIU, Liqiang - ZHANG, Hongcheng. Nonenzymatic Browning and Protein Aggregation in Royal Jelly during Room-Temperature Storage. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 8, pp. 1881-1888., Registrované v: WOS
- ADCA51 BEZÁKOVÁ, Zuzana - HERMANNOVÁ, Martina - DŘÍMALOVÁ, Eugenie - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna - VELEBNÝ, Vladimír. Effect of microwave irradiation on the molecular and structural properties of hyaluronan. In *Carbohydrate Polymers*, 2008, vol. 73, p. 640-646. ISSN 0144-8617.
- Citácie:
1. [1.1] MA, Xiaobin - WANG, Danli - CHEN, Weijun - ISMAIL, Balarabe Bilyaminu - WANG, Wenjun - LV, Ruiling - DING, Tian - YE, Xingqian - LIU, Donghong. Effects of ultrasound pretreatment on the enzymolysis of pectin: Kinetic study, structural characteristics and anti-cancer activity of the hydrolysates. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 79, no., pp. 90-99., Registrované v: WOS
2. [1.1] MLADENOVA, Ralitsa - SABOTINOV, Ognian - KARAKIROVA, Yordanka - SHOPSKA, Maya - GYUROVA, Magdalena. PRELIMINARY STUDY ON LASERS AND X-RAY IRRADIATION EFFECTS ON HYALURONIC ACID DERMAL FILLERS. In *COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES*. ISSN 1310-1331, 2018, vol. 71, no. 11, pp. 1451-1457., Registrované v: WOS
- ADCA52 BHUNIA, Anirban - SCHWARDT, Oliver - GÄTHJE, Heiko - GAO, Gan-Pan - KELM, Soerge - BENIE, Andrew J. - HRICOVÍNÍ, Miloš - PETERS, Thomas - ERNST, Beat. Consistent bioactive conformation of the Neu5Aca(2-3)Gal epitope upon lectin binding. In *ChemBiochem*, 2008, vol. 9, p. 2941-2945. (2008 - Current Contents). ISSN 1439-4227.
- Citácie:
1. [1.1] MAYR, Julianne - LAU, Kam - LAI, Jimmy C. C. - GAGARINOV, Ivan A. - SHI, Yun - MCATAMNEY, Sarah - CHAN, Renee W. Y. - NICHOLLS, John - VON ITZSTEIN, Mark - HASELHORST, Thomas. Unravelling the Role of O-glycans in Influenza A Virus Infection. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
- ADCA53 BIELY, Peter. Microbial glucuronoyl esterases: 10 years after discovery. In *Applied and Environmental Microbiology*, 2016, vol. 32, p. 7014-7018. (2015: 3.823 - IF, Q1 - JCR, 1.896 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0099-2240.
- Citácie:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
3. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
4. [1.1] WU, Guoyao. Feed Additives. In *PRINCIPLES OF ANIMAL NUTRITION*, 2018, vol., no., pp. 709-733., Registrované v: WOS

ADCA54

BIELY, Peter - MASTIHUBOVÁ, Mária - CÔTÉ, G.L. - GREEN, R.W. Mode of action of acetylxyylan esterase from *Streptomyces lividans*: a study with deoxy and deoxyfluoro analogues of acetylated beta-D-xylopyranoside. In *Biochimica et Biophysica Acta*, 2003, vol. 1622, p. 82-88. ISSN 0006-3002.

Citácie:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
2. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS

ADCA55

BIELY, Peter - SINGH, Suren - PUCHART, Vladimír. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In *Biotechnology Advances*, 2016, vol. 34, p. 1260-1274. (2015: 9.848 - IF, Q1 - JCR, 2.915 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0734-9750.

Citácie:

1. [1.1] AURELI, Raffaella - LA-MARTA, James - GROSSI, Alberto Blak - DELLA PIA, Eduardo Antonio - ESTEVE-GARCIA, Enric - WULF-ANDERSEN, Linda - THORSEN, Michael. A novel glucuronoxylan hydrolase produced by fermentation is safe as feed additive: toxicology and tolerance in broiler chickens. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2018, vol. 99, no., pp. 213-224., Registrované v: WOS
2. [1.1] BASTOS, Rita - COELHO, Elisabete - COIMBRA, Manuel A. Arabinoxylans from cereal by-products: insights into structural features, recovery, and applications. In *SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS*. ISSN 2042-8049, 2018, vol., no., pp. 227-251., Registrované v: WOS
3. [1.1] BLAKE, Andrew D. - BERI, Nina R. - GUTTMAN, Hadassa S. - CHENG, Raymond - GARDNER, Jeffrey G. The complex physiology of *Cellvibrio japonicus* xylan degradation relies on a single cytoplasmicxylosidase for xylo-oligosaccharide utilization. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, 2018, vol. 107, no. 5, pp. 610-622., Registrované v: WOS
4. [1.1] BROEKER, Jannis - MECHELKE, Matthias - BAUDREXL, Melanie - MENNERICH, Denise - HORNBURG, Daniel - MANN, Matthias - SCHWARZ, Wolfgang H. - LIEBL, Wolfgang - ZVERLOV, Vladimir V. The hemicellulose-degrading enzyme system of the thermophilic bacterium *Clostridium stercorarium*: comparative characterisation and addition of new hemicellulolytic glycoside hydrolases. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
5. [1.1] CHATZIFRAGKOU, Afroditi - CHARALAMPOPOULOS, Dimitris. Distiller's dried grains with solubles (DDGS) and intermediate products as starting materials in biorefinery strategies. In *SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS*. ISSN 2042-8049, 2018, vol., no., pp. 63-86., Registrované v: WOS
6. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
7. [1.1] COUTURIER, Marie - LADEVEZE, Simon - SULZENBACHER, Gerlind - CIANO, Luisa -

- FANUEL, Mathieu - MOREAU, Celine - VILLARES, Ana - CATHALA, Bernard - CHASPOUL, Florence - FRANDSEN, Kristian E. - LABOUREL, Aurore - HERPOEL-GIMBERT, Isabelle - GRISEL, Sacha - HAON, Mireille - LENFANT, Nicolas - ROGNIAUX, Helene - ROPARTZ, David - DAVIES, Gideon J. - ROSSO, Marie-Noelle - WALTON, Paul H. - HENRISSAT, Bernard - BERRIN, Jean-Guy. Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. In *NATURE CHEMICAL BIOLOGY*. ISSN 1552-4450, 2018, vol. 14, no. 3, pp. 306-+, Registrované v: WOS
8. [1.1] DE OLIVEIRA SANTOS, Victor Tabosa - SIQUEIRA, Germano - FERREIRA MILAGRES, Adriane Maria - FERRAZ, Andre. Role of hemicellulose removal during dilute acid pretreatment on the cellulose accessibility and enzymatic hydrolysis of compositionally diverse sugarcane hybrids. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 111, no., pp. 722-730., Registrované v: WOS
9. [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
10. [1.1] FOWLER, Claire A. - HEMSWORTH, Glyn R. - CUSKIN, Fiona - HART, Sam - TURKENBURG, Johan - GILBERT, Harry J. - WALTON, Paul H. - DAVIES, Gideon J. Structure and function of a glycoside hydrolase family 8 endoxylanase from *Teredinibacter turnerae*. In *ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY*. ISSN 2059-7983, 2018, vol. 74, no., pp. 946-955., Registrované v: WOS
11. [1.1] GUO, Yalan - GAO, Zhen - XU, Jiaxing - CHANG, Siyuan - WU, Bin - HE, Bingfang. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 377-384., Registrované v: WOS
12. [1.1] JIANG, Kankan - LI, Lulu - LONG, Liangkun - DING, Shaojun. Comprehensive evaluation of combining hydrothermal pretreatment (autohydrolysis) with enzymatic hydrolysis for efficient release of monosaccharides and ferulic acid from corn bran. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 113, no., pp. 348-357., Registrované v: WOS
13. [1.1] KARLSSON, Eva Nordberg - SCHMITZ, Eva - LINARES-PASTEN, Javier A. - ADLERCREUTZ, Patrick. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9081-9088., Registrované v: WOS
14. [1.1] LIU, Taiyu - ZHANG, Jianguo. High-level expression and characterization of *Aspergillus niger* ATCC 1015 xylanase B in *Komagataella phaffii*. In *APPLIED BIOLOGICAL CHEMISTRY*. ISSN 2468-0834, 2018, vol. 61, no. 4, pp. 373-381., Registrované v: WOS
15. [1.1] LOPEZ-HERNANDEZ, Marisol - ELENA RODRIGUEZ-ALEGRIA, Maria - LOPEZ-MUNGUIA, Agustin - WACHER, Carmen. Evaluation of xylan as carbon source for *Weissella* spp., a predominant strain in pozol fermentation. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2018, vol. 89, no., pp. 192-197., Registrované v: WOS
16. [1.1] MACCORMICK, Benjamin - VUONG, Thu V. - MASTER, Emma R. Chemo-enzymatic Synthesis of Clickable Xylo-oligosaccharide Monomers from Hardwood 4-O-Methylglucuronoxylan. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 2, pp. 521-530., Registrované v: WOS
17. [1.1] MONTE, Joseana R. - LAURITO-FRIEND, Debora F. - MUSSATTO, Solange - FERRAZ, Andre - MILAGRES, Adriane M. F. Comparative Evaluation of Acid and Alkaline Sulfite Pretreatments for Enzymatic Saccharification of Bagasses from Three Different Sugarcane Hybrids. In *BIOTECHNOLOGY PROGRESS*. ISSN 8756-7938, 2018, vol. 34, no. 4, pp. 944-951., Registrované v: WOS
18. [1.1] MOROZ, Olga V. - SOBALA, Lukasz F. - BLAGOVA, Elena - COYLE, Travis - PENG, Wei - KROGH, Kristian B. R. Morkeberg - STUBBS, Keith A. - WILSON, Keith S. - DAVIES, Gideon J. Structure of a *Talaromyces pinophilus* GH62 arabinofuranosidase in complex with AraDNJ a 1.25 angstrom resolution. In *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS*, 2018, vol. 74, no., pp. 490-495., Registrované v: WOS
19. [1.1] MOUTHIER, Thibaut - APPELDOORN, Maaike M. - PEL, Herman - SCHOLS, Henk A. - GRUPPEN, Harry - KABEL, Mirjam A. Corn stover lignin is modified differently by acetic acid compared to sulfuric acid. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 121, no., pp. 160-168., Registrované v: WOS
20. [1.1] PAULY, Markus - RAMIREZ, Vicente. New Insights Into Wall Polysaccharide O-Acetylation. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
21. [1.1] PRESLEY, Gerald N. - NDIMBA, Bongani K. - SCHILLING, Jonathan S. Brown Rot-



*Type Fungal Decomposition of Sorghum Bagasse: Variable Success and Mechanistic Implications. In INTERNATIONAL JOURNAL OF MICROBIOLOGY. ISSN 1687-918X, 2018, vol. 2018, no., pp., Registrované v: WOS*

22. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

23. [1.1] SINGH, Nisha - PURI, Munish - TULI, Deepak K. - GUPTA, Ravi P. - BARROW, Colin J. - MATHUR, Anshu S. Bioethanol production by a xylan fermenting thermophilic isolate *Clostridium* strain DBT-IOC-DC21. In ANAEROBE. ISSN 1075-9964, 2018, vol. 51, no., pp. 89-98., Registrované v: WOS

24. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS

25. [1.1] WANG, Weijun - ANDRIC, Nikola - SARCH, Cody - SILVA, Bruno T. - TENKANEN, Maija - MASTER, Emma R. Constructing arabinofuranosidases for dual arabinoxylan debranching activity. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2018, vol. 115, no. 1, pp. 41-49., Registrované v: WOS

26. [1.1] WANG, Yayun - SAKKA, Makiko - YAGI, Haruka - KANEKO, Satoshi - KATSUZAKI, Hirotaka - KUNITAKE, Emi - KIMURA, Tetsuya - SAKKA, Kazuo. Ruminiclostridium josui Abf62A-Axe6A: A tri-functional xylanolytic enzyme exhibiting alpha-L-arabinofuranosidase, endoxylanase, and acetyl xylan esterase activities. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2018, vol. 117, no., pp. 1-8., Registrované v: WOS

27. [1.2] SHARMA, Vishal - BHAT, Bilqeesa - GUPTA, Mahak - VAID, Surbhi - SHARMA, Shikha - NARGOTRA, Parushi - SINGH, Satbir - BAJAJ, Bijender Kumar. Role of systematic biology in biorefining of lignocellulosic residues for biofuels and chemicals production. In Sustainable Biotechnology- Enzymatic Resources of Renewable Energy, 2018-01-01, pp. 5-55., Registrované v: SCOPUS

ADCA56 BIELY, Peter - TENKANEN, M. Enzymology of hemicellulose degradation. In Trichoderma and Gliogladium, 1998, vol. 2, p. 25-47.

Citácie:

1. [1.1] KAMARUDDIN, Shazilah - MAHADI, Nor Muhammad - ILLIAS, Rosli Md - HASSAN, Osman - SULAIMAN, Suhaila - BROUGHTON, William - BHARUDIN, Izwan - ABU BAKAR, Farah Diba - MURAD, Abdul Munir Abdul. Effect of Pichia pastoris host strain on the properties of recombinant Aspergillus niger endoglucanase, EglB. In MALAYSIAN JOURNAL OF MICROBIOLOGY. ISSN 1823-8262, 2018, vol. 14, no. 6, pp. 554-562., Registrované v: WOS

ADCA57 BIELY, Peter - COTE, G.L. - BURGESS-CASSLER, A. Purification and properties of alternanase, a novel endo-alfa-1,3-alfa-1,6-D-glucanase. In European Journal of Biochemistry, 1994, vol. 226, p. 633-639. ISSN 0014-2956.

Citácie:

1. [1.1] GANGOITI, Joana - PIJNING, Tjaard - DIJKHUIZEN, Lubbert. Biotechnological potential of novel glycoside hydrolase family 70 enzymes synthesizing alpha-glucans from starch and sucrose. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2018, vol. 36, no. 1, pp. 196-207., Registrované v: WOS

ADCA58 BIELY, Peter - CZISZÁROVÁ, Mária - AGGER, Jane W. - LI, Xin-Liang - PUCHART, Vladimír - VRŠANSKÁ, Mária - EIJSINK, Vincent G. H. - WESTERENG, Bjorge. Trichoderma reesei CE16 acetyl esterase and its role in enzymatic degradation of acetylated hemicellulose. In Biochimica et Biophysica Acta: General Subjects, 2014, vol. 1840, p. 516-525. (2013: 3.829 - IF, 1.672 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0304-4165.

Citácie:

1. [1.1] BHARDWAJ, Nisha - VERMA, Vijay Kumar - CHATURVEDI, Venkatesh - VERMA, Pradeep. GH10 XynF1 and Xyn11A: the predominant xylanase identified in the profiling of extracellular proteome of Aspergillus oryzae LC1. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2018, vol. 68, no. 11, pp. 731-742., Registrované v: WOS

2. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of Escherichia coli Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS

3. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

- ADCA59 BIELY, Peter - COTE, G.L. - KREMnický, Ľubomir - GREENE, Richard V. - DUPONT, Claude - KLUEPFEL, Dieter. Substrate specificity and mode of action of acetylxylin esterase from *Streptomyces lividans*. In *FEBS Letters*, 1996, vol. 396, p. 257-260. ISSN 1873-3468.
- Citácie:
- [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
  - [1.1] EDUARDO TOVAR-HERRERA, Omar - MAYREL MARTHA-PAZ, Adriana - PEREZ-LLANO, Yordanis - ARANDA, Elisabet - ENRIQUE TACORONTE-MORALES, Juan - TERESA PEDROSO-CABRERA, Maria - AREVALO-NINO, Katiushka - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon. Schizophyllum commune: An unexploited source for lignocellulose degrading enzymes. In *MICROBIOLOGYOPEN*. ISSN 2045-8827, 2018, vol. 7, no. 3, pp., Registrované v: WOS
  - [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS
- ADCA60 BIELY, Peter - VRŠANSKÁ, Mária - KRÁTKY, Z. Mechanism of substrate digestion by endo-1,4- $\beta$ -xylanase of *Cryptococcus albidus*. Lysozyme type pattern action. In *European Journal of Biochemistry*, 1981, vol. 119, p. 565-571. ISSN 0014-2956.
- Citácie:
- [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
  - [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS
  - [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
- ADCA61 BIELY, Peter - VRŠANSKÁ, Mária - CLAEYSSENS, Marc. The endo-1,4-beta-glucanase-I from *Trichoderma reesei* - action on beta-1,4-oligomers and polymers derived from D-glucose and D-xylose. In *European Journal of Biochemistry*, 1991, vol.200, p. 157-163. ISSN 0014-2956.
- Citácie:
- [1.2] MEENA, Sweta Singh - SHARMA, Vinay - GUPTA, Sarika. In vitro optimisation of fungal cellulase production from fruit waste for handmade paper industries. In *Biotechnology*. ISSN 1682296X, 2018-01-01, 17, 1-2, pp. 35-43., Registrované v: SCOPUS
  - [1.2] UEDA, Mitsuhiro - KONEMORI, Yuta - NAKAZAWA, Masami - SAKAMOTO, Tatsuji - SAKAGUCHI, Minoru. Heterologous expression and characterization of a cold-adapted endo-1,4- $\beta$ -glucanase gene from *Bellamyia chinensis laeta*. In *Process Biochemistry*. ISSN 13595113, 2018-11-01, 74, pp. 28-34., Registrované v: SCOPUS
- ADCA62 BIELY, Peter - VRŠANSKÁ, Mária. Xylanase of *Cryptococcus albidus*. In *Methods in Enzymology*. Vol. 160, (1988), p. 638-648.
- Citácie:
- [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
- ADCA63 BIELY, Peter - WONG, K.K.Y. - SUCKLING, I.D. - ŠPÁNIKOVÁ, Silvia. Transacetylations to carbohydrates catalyzed by acetylxylin in the presence of organic solvent. In *Biochimica et Biophysica Acta*, 2003, vol.1623, p. 62-71. ISSN 0006-3002.
- Citácie:
- [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In *LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION*. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS
  - [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS



- ADCA64 BIELY, Peter - HEINRICHOVÁ, K. - KRUŽIKOVÁ, M.. Induction and inducers of the pectolytic system in *Aureobasidium pullulans*. In *Current Microbiology*, 1996, vol. 33, p. 6-10. ISSN 0343-8651.  
Citácie:  
1. [1.1] BOZOUDI, Despina - TSALTAS, Dimitrios. *The Multiple and Versatile Roles of Aureobasidium pullulans in the Vitivinicultural Sector*. In *FERMENTATION-BASEL*, 2018, vol. 4, no. 4, pp., Registrované v: WOS  
2. [1.1] GABRIELA MERIN, Maria - INES MORATA DE AMBROSINI, Vilma. *Kinetic and metabolic behaviour of the pectinolytic strain Aureobasidium pullulans GM-R-22 during pre-fermentative cold maceration and its effect on red wine quality*. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2018, vol. 285, no., pp. 18-26., Registrované v: WOS
- ADCA65 BIELY, Peter - MACKENZIE, Colin R. - PULS, Jorgen - SCHNEIDER, Henry. Cooperativity of esterases and xylanases in the enzymatic degradation of acetyl xylan. In *Biotechnology*, 1986, vol. 4, p. 731-733.  
Citácie:  
1. [1.1] BURGER, Marco - CHORY, Joanne. *Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones*. In *COMMUNICATIONS BIOLOGY*, 2018, vol. 1, no., pp., Registrované v: WOS  
2. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. *Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe Paenibacillus sp.* In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS  
3. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. *Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases*. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS
- ADCA66 BIELY, Peter - PULS, Jorgen - SCHNEIDER, Henry. Acetyl xylan esterases in fungal cellulolytic systems. In *FEBS Letters*, 1985, vol. 186, p. 80-84. ISSN 1873-3468.  
Citácie:  
1. [1.1] BECK, Greeley - THYBRING, Emil Englund - THYGESEN, Lisbeth Garbrecht. *Brown-rot fungal degradation and de-acetylation of acetylated wood*. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 135, no., pp. 62-70., Registrované v: WOS  
2. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. *A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS  
3. [1.1] YANG, Yi - YANG, Jinshui - LI, Baozhen - WANG, Entao - YUAN, Hongli. *An esterase from Penicillium decumbens P6 involved in lignite depolymerization*. In *FUEL*. ISSN 0016-2361, 2018, vol. 214, no., pp. 416-422., Registrované v: WOS  
4. [1.1] YANG, Yi - YANG, Jinshui - LIU, Jiawen - WANG, Ruonan - LIU, Liang - WANG, Fengqin - YUAN, Hongli. *The composition of accessory enzymes of Penicillium chrysogenum P33 revealed by secretome and synergistic effects with commercial cellulase on lignocellulose hydrolysis*. In *BIORESOURCETECHNOLOGY*. ISSN 0960-8524, 2018, vol. 257, no., pp. 54-61., Registrované v: WOS  
5. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. *Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases*. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS
- ADCA67 BIELY, Peter - PUCHART, Vladimír - STRINGER, Marry Ann - MORKEBERG KROGH, Kristian B.R. *Trichoderma reesei XYN VI - a novel appendage-dependent eukaryotic glucuronoxylan hydrolase*. In *FEBS Journal*, 2014, vol. 281, p. 3894-3903. (2013: 3.986 - IF, 2.121 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1742-464X.  
Citácie:  
1. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. *Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS  
2. [1.1] HARVEY, David J. *ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014*. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2018, vol.

37, no. 4, pp. 353-491., Registrované v: WOS

3. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS

4. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS

ADCA68 BIELY, Peter - KRÁTKY, Zdeno - KOVARÍK, J. - BAUER, Štefan. Effect of 2-deoxyglucose on cell wall formation in *Saccharomyces cerevisiae* and its relation to cell growth inhibition. In *Journal of Bacteriology*, 1971, vol. 107, p. 121-129. ISSN 0021-9193.

Citácie:

1. [1.1] ZHANG, Ning - FAN, Yuxuan - LI, Chen - WANG, Qiming - LEKSAWASDI, Noppol - LI, Fuli - WANG, Shi'an. Cell permeability and nuclear DNA staining by propidium iodide in basidiomycetous yeasts. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 9, pp. 4183-4191., Registrované v: WOS

ADCA69 BIELY, Peter - KREMnický, Ľubomír. Yeasts and their enzyme systems degrading cellulose, hemicelluloses and pectin. In *Food Technology and Biotechnology*, 1998, vol. 36, p. 305-312. ISSN 1330-9862.

Citácie:

1. [1.1] PINTO, Catia - CUSTODIO, Valeria - NUNES, Mariana - SONGY, Aurelie - RABENOELINA, Fanja - COURTEAUX, Barbara - CLEMENT, Christophe - GOMES, Ana Catarina - FONTAINE, Florence. Understand the Potential Role of *Aureobasidium pullulans*, a Resident Microorganism From Grapevine, to Prevent the Infection Caused by *Diplodia seriata*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA70 BIELY, Peter. Microbial xylanolytic systems. In *Trends in Biotechnology*, 1985, vol. 3, no. 11, p. 286-290. ISSN 0167-7799.

Citácie:

1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS

2. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In *LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION*. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS

3. [1.1] BASU, Moumita - KUMAR, Vishal - SHUKLA, Pratyosh. Recombinant Approaches for Microbial Xylanases: Recent Advances and Perspectives. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 87-99., Registrované v: WOS

4. [1.1] BOONDAENG, Antika - KRAJANGSANG, Sukhumaporn - TRAKUNJAE, Chanaporn - LOMTHONG, Thanasak - TOKUYAMA, Shinji - KITPRECHAVANICH, Vichien. Optimization, Purification and Characterization of beta-xylanase by a Novel Thermotolerant Strain of *Microbispora siamensis*, DMKUA 245(T). In *CHIANG MAI JOURNAL OF SCIENCE*. ISSN 0125-2526, 2018, vol. 45, no. 6, pp. 2267-2282., Registrované v: WOS

5. [1.1] BRANDT, Sophie C. - ELLINGER, Bernhard - VAN NGUYEN, Thuat - QUYEN DINH THI - GIANG VAN NGUYEN - BASCHIEN, Christiane - YURKOV, Andrey - HAHNKE, Richard L. - SCHAEFER, Wilhelm - GAND, Martin. A unique fungal strain collection from Vietnam characterized for high performance degraders of bioecological important biopolymers and lipids. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS

6. [1.1] DEY, Prottyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS

7. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS

8. [1.1] KHANAHMADI, Morteza - AREZI, Iman - AMIRI, Motahhareh-sadat - MIRANZADEH, Mokhtar. Bioprocessing of agro-industrial residues for optimization of xylanase production by solid-state fermentation in flask and tray bioreactor. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2018, vol. 13, no., pp. 272-282., Registrované v: WOS

9. [1.1] LIU, Chunyan - ZOU, Gen - YAN, Xing - ZHOU, Xuguo. Screening of multimeric beta-xylosidases from the gut microbiome of a higher termite, *Globitermes brachycerastes*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2018, vol. 14, no. 6, pp. 608-615., Registrované v: WOS
10. [1.1] MATSU-URA, Toni - DOVZHENOK, Andrey A. - CORADETTI, Samuel T. - SUBRAMANIAN, Krithika R. - MEYER, Daniel R. - KWON, Jaesang J. - KIM, Caleb - SALOMONIS, Nathan - GLASS, N. Louise - LIM, Sookkyung - HONG, Christian I. Synthetic Gene Network with Positive Feedback Loop Amplifies Cellulase Gene Expression in *Neurospora crassa*. In *ACS SYNTHETIC BIOLOGY*. ISSN 2161-5063, 2018, vol. 7, no. 5, pp. 1395-1405., Registrované v: WOS
11. [1.1] NOGUEIRA-LOPEZ, Guillermo - GREENWOOD, David R. - MIDDLEDITCH, Martin - WINEFIELD, Christopher - EATON, Carla - STEYAERT, Johanna M. - MENDOZA-MENDOZA, Artemio. The Apoplastic Secretome of *Trichoderma virens* During Interaction With Maize Roots Shows an Inhibition of Plant Defence and Scavenging Oxidative Stress Secreted Proteins. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
12. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
13. [1.1] TERRONE, Carol Cabral - DE FREITAS, Caroline - FANCHINI TERRASAN, Cesar Rafael - DE ALMEIDA, Alex Fernando - CARMONA, Eleonora Cano. Agroindustrial biomass for xylanase production by *Penicillium chrysogenum*: Purification, biochemical properties and hydrolysis of hemicelluloses. In *ELECTRONIC JOURNAL OF BIOTECHNOLOGY*. ISSN 0717-3458, 2018, vol. 33, no., pp. 39-45., Registrované v: WOS
14. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
15. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E-coli* B121. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS
16. [1.2] BAJPAI, Pratima. Biotechnology for pulp and paper processing. In *Biotechnology for Pulp and Paper Processing*, 2018-02-14, pp. 1-588., Registrované v: SCOPUS
17. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

ADCA71 BIELY, Peter - COTE, G.L. - KREMnický, Ľubomir - GREEN, R.V. - TENKANEN, Maija. Action of acetylxyylan esterase from *Trichoderma reesei* on acetylated methyl glycosides. In *FEBS Letters*, 1997, vol. 420, p. 121-124. ISSN 1873-3468.

Citácie:

1. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA72 BIELY, Peter - COTE, G.L. - KREMnický, Ľubomir - WEISLEDER, L. - GREENE, R.V. Substrate specificity of acetylxyylan esterase from *Schizophyllum commune*: Mode of action on acetylated carbohydrates. In *Biochimica et Biophysica Acta: Protein Structure and Molecular Enzymology*, 1996, vol. 1298, p. 209-222. ISSN 0167-4838.

Citácie:

1. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
2. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA73 BIELY, Peter - MASTIHUBOVÁ, Mária - TENKANEN, Maija - EYZAGUIRRE, Jaime - LI, Xin-Liang - VRŠANSKÁ, Mária. Action of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl glycosides of beta-D-xylopyranose and alfa-L-arabinofuranose. In *Journal of Biotechnology*, 2011, vol. 151, p. 137-142. (2010: 2.970 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0168-1656.

Citácie:



1. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
  2. [1.1] SCHUCKEL, Julia - KRACUN, Stjepan Kresimir. Two-Dimensional High-Throughput Endo-Enzyme Screening Assays Based on Chromogenic Polysaccharide Hydrogel and Complex Biomass Substrates. In CELLULASES: METHODS AND PROTOCOLS. ISSN 1064-3745, 2018, vol. 1796, no., pp. 201-217., Registrované v: WOS
  3. [1.1] WANG, Yayun - SAKKA, Makiko - YAGI, Haruka - KANEKO, Satoshi - KATSUZAKI, Hirotaka - KUNITAKE, Emi - KIMURA, Tetsuya - SAKKA, Kazuo. Ruminiclostridium josui Abf62A-Axe6A: A tri-functional xylanolytic enzyme exhibiting alpha-L-arabinofuranosidase, endoxylanase, and acetylxylan esterase activities. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2018, vol. 117, no., pp. 1-8., Registrované v: WOS
  4. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
- ADCA74 BIELY, Peter - MASTIHUBOVÁ, Mária - VAN ZYL, W.H. - PRIOR, B.A. Differentiation of feruloyl esterases on synthetic substrates in alfa-arabinofuranosidase-coupled and ultraviolet-spectrophotometric assays. In Analytical Biochemistry, 2002, vol. 311, p. 68-75. ISSN 0003-2697.
- Citácie:
1. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
- ADCA75 BIELY, Peter - KRÁTKY, Zdeno - VRŠANSKÁ, Mária. Substrate binding site of endo-1,4-beta-xylanase of the yeast *Cryptococcus albidus*. In European Journal of Biochemistry, 1981, vol. 119, p. 559-564. ISSN 0014-2956.
- Citácie:
1. [1.1] KARKEHABADI, Saeid - HANSSON, Henrik - MIKKELSEN, Nils Egil - KIM, Steve - KAPER, Thijs - SANDGREN, Mats - GUDMUNDSSON, Mikael. Structural studies of a glycoside hydrolase family 3 beta-glucosidase from the model fungus *Neurospora crassa*. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2018, vol. 74, no., pp. 787-796., Registrované v: WOS
  2. [1.1] TAKASHIMA, Tomoya - NUMATA, Tomoyuki - TAIRA, Toki - FUKAMIZO, Tamo - OHNUMA, Takayuki. Structure and Enzymatic Properties of a Two-Domain Family GH19 Chitinase from Japanese Cedar (*Cryptomeria japonica*) Pollen. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 22, pp. 5699-5706., Registrované v: WOS
  3. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
  4. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS
- ADCA76 BIELY, Peter - MALOVÍKOVÁ, Anna - HIRSCH, Ján - MORKEBERG KROGH, K. B. R. - EBRINGEROVÁ, Anna. The role of the glucuronoxylan carboxyl groups in the action of andoxylanases of three glycoside hydrolase families: A study with two substrate mutants. In Biochimica et Biophysica Acta: General Subjects, 2015, vol. 1850, p. 2246-2255. (2014: 4.381 - IF, Q1 - JCR, 1.780 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0304-4165.
- Citácie:
1. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
  2. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS
  3. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi

- FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
- ADCA77 BIELY, Peter - LEATHERS, T.D. - CZISZÁROVÁ, Mária - VRŠANSKÁ, Mária - COTTA, M.A. Endo-beta-1,4-xylanase inhibitors in leaves and roots of germinated maize. In *Journal of Cereal Science*, 2008, vol. 47, p. 27-32. ISSN 0733-5210.  
Citácie:  
1. [1.2] LI, Ting - WU, Cheng Cheng - LI, Bao Hua - LIAN, Sen - LIANG, Wen Xing - WANG, Cai Xia. Molecular cloning and expression analysis of XEGIP in *Malus pumila*. In *Zhiwu Shengli Xuebao/Plant Physiology Journal*. ISSN 20951108, 2018-07-20, 54, 7, pp. 1245-1252., Registrované v: SCOPUS
- ADCA78 BIELY, Peter - MACKENZIE, Colin R. - SCHNEIDER, Henry. Production of acetyl xylan esterase by *Trichoderma reesei* and *Schizophyllum commune*. In *Canadian Journal of Microbiology*, 1988, vol. 34, p. 767-772. ISSN 0008-4166.  
Citácie:  
1. [1.1] BURLACU, Aglaia - ISRAEL-ROMING, Florentina - CORNEA, Calina Petruta. SCREENING OF MICROORGANISMS DISPLAYING ACETYL XYLAN ESTERASE ACTIVITY. In *SCIENTIFIC PAPERS-SERIES B-HORTICULTURE*. ISSN 2285-5653, 2018, vol. 62, no., pp. 715-720., Registrované v: WOS
- ADCA79 BIELY, Peter - CZISZÁROVÁ, Mária - UHLIARIKOVÁ, Iveta - AGGER, Jane W. - LI, Xin-Liang - EIJSSINK, Vincent G.H. - WESTERENG, Bjorge. Mode of action of acetylxyylan esterases on acetyl glucuronoxylan and acetylated oligosaccharides generated by a GH10 endoxylanase. In *Biochimica et Biophysica Acta: General Subjects*, 2013, vol. 1830, p. 5075-5086. (2012: 3.848 - IF, 2.084 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-4165.  
Citácie:  
1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS  
2. [1.1] KANOKRATANA, Pattanop - WONGWILAIWALIN, Sarunyou - MHUANTONG, Wuttichai - TANGPHATSORNRUANG, Sithichoke - EURWILAICHITR, Lily - CHAMPREDA, Verawat. Characterization of cellulolytic microbial consortium enriched on Napier grass using metagenomic approaches. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2018, vol. 125, no. 4, pp. 439-447., Registrované v: WOS  
3. [1.1] SHARMA, Kedar - ANTUNES, Ines Lobo - RAJULAPATI, Vikky - GOYAL, Arun. Molecular characterization of a first endo-acting beta-1,4-xylanase of family 10 glycoside hydrolase (PsGH10A) from *Pseudopedobacter saltans* comb. nov. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 70, no., pp. 79-89., Registrované v: WOS
- ADCA80 BIELY, Peter - CZISZÁROVÁ, Mária - WONG, Ken K.Y. - FERNYHOUGH, Alan. Enzymatic acylation of flavonoid glycosides by a carbohydrate esterase of family 16. In *Biotechnology Letters*, 2014, vol. 36, p. 2249-2255. (2013: 1.736 - IF, 0.713 - SJR, karentované - CCC). (2014 - Current Contents, SCOPUS, WOS). ISSN 0141-5492.  
Citácie:  
1. [1.1] MECENAS, Anete Souza - ADAO MALAFAIA, Camila Rodrigues - SANGENITO, Leandro Stefano - REIS SIMAS, Daniel Luiz - MACHADO, Thelma de Barros - AMARAL, Ana Claudia F. - SOUZA DOS SANTOS, Andre Luis - GUIMARAES FREIRE, Denise Maria - RAMOS LEAL, Ivana Correa. Rutin derivatives obtained by transesterification reactions catalyzed by Novozym 435: Antioxidant properties and absence of toxicity in mammalian cells. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS  
2. [1.1] XIN, Xuan - ZHANG, Mengmeng - LI, Xiaofeng - LAI, Furao - ZHAO, Guanglei. Biocatalytic synthesis of acylated derivatives of troxerutin: their bioavailability and antioxidant properties in vitro. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS
- ADCA81 BIELY, Peter - MASTIHUBOVÁ, Mária - PUCHART, Vladimír. The vicinal hydroxyl group is pre-requisite for metal activation of *Clostridium thermocellum* acetylxyylan esterase. In *Biochimica et Biophysica Acta*, 2007, vol. 1770, p. 565-570.  
Citácie:  
1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS  
2. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural

and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS

ADCA82

**BIELY, Peter.** Microbial carbohydrate esterases deacetylating plant polysaccharides. In *Biotechnology Advances*, 2012, vol. 30, p. 1575-1588. (2011: 9.646 - IF, 3.118 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0734-9750.

Citácie:

1. [1.1] ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - VIKRAM, Surendra - SEWELL, Bryan T. - SCHUBERT, Wolf-Dieter - COWAN, Don A. Structural Characterization and Directed Evolution of a Novel Acetyl Xylan Esterase Reveals Thermostability Determinants of the Carbohydrate Esterase 7 Family. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 8, pp., Registrované v: WOS
2. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
3. [1.1] BUNTERNGSOOK, Benjarat - LAOTHANACHAREON, Thanaporn - CHOTIROTSUKON, Chayanon - INOUE, Hiroyuki - FUJII, Tatsuya - HOSHINO, Tamotsu - ROONGSAWANG, Niran - KUBOON, Sanchai - KRAITHONG, Wasawat - TECHANAN, Wikanda - KRAIKUL, Natthakorn - CHAMPREDA, Verawat. Development of tailor-made synergistic cellulolytic enzyme system for saccharification of steam exploded sugarcane bagasse. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2018, vol. 125, no. 4, pp. 390-396., Registrované v: WOS
4. [1.1] CHEN, Long - GU, Wei - XU, Hai-yan - YANG, Gui-Lian - SHAN, Xiao-Feng - CHEN, Guang - KANG, Yuan-huan - WANG, Chun-Feng - QIAN, Ai-Dong. Comparative genome analysis of *Bacillus velezensis* reveals a potential for degrading lignocellulosic biomass. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 5, pp., Registrované v: WOS
5. [1.1] JONES, Darryl R. - THOMAS, Dallas - ALGER, Nicholas - GHAVIDEL, Ata - INGLIS, G. Douglas - ABBOTT, D. Wade. SACCHARIS: an automated pipeline to streamline discovery of carbohydrate active enzyme activities within polyspecific families and de novo sequence datasets. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
6. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS
7. [1.1] LEE, Brady D. - APEL, William A. - SHERIDAN, Peter P. - DEVEAUX, Linda C. Glycoside hydrolase gene transcription by *Alicyclobacillus acidocaldarius* during growth on wheat arabinoxylan and monosaccharides: a proposed xylan hydrolysis mechanism. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
8. [1.1] LEO, Vincent V. - ASEM, Dhaneawaree - ZOTHANPUA - SINGH, Bhim P. Actinobacteria: A Highly Potent Source for Holocellulose Degrading Enzymes. In *NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: ACTINOBACTERIA: DIVERSITY AND BIOTECHNOLOGICAL APPLICATIONS*, 2018, vol., no., pp. 191-205., Registrované v: WOS
9. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
10. [1.1] LUO, Xuming - CAO, Jidong - HUANG, Junkai - WANG, Zongyi - GUO, Zhengyan - CHEN, Yihua - MA, Shumei - LIU, Jun. Genome sequencing and comparative genomics reveal the potential pathogenic mechanism of *Cercospora soja* Hara on soybean. In *DNA RESEARCH*. ISSN 1340-2838, 2018, vol. 25, no. 1, pp. 25-37., Registrované v: WOS
11. [1.1] PARK, Young-Jin - JEONG, Yong-Un - KONG, Won-Sik. Genome Sequencing and Carbohydrate-Active Enzyme (CAZyme) Repertoire of the White Rot Fungus *Flammulina elastica*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 8, pp., Registrované v: WOS
12. [1.1] PARK, Young-Jin - KONG, Won-Sik. Genome-Wide Comparison of Carbohydrate-Active Enzymes (CAZymes) Repertoire of *Flammulina ononidis*. In *MYCOBIOLOGY*. ISSN 1229-8093, 2018, vol. 46, no. 4, pp. 349-360., Registrované v: WOS
13. [1.1] QIAN KUN - LI DENG-HUI - LIN RUN-MAO - SHI QIAN-QIAN - MAO ZHEN-CHUAN



- YANG YU-HONG - FENG DONG-XIN - XIE BING-YAN. *Rediscovery and analysis of Phytophthora carbohydrate esterase (CE) genes revealing their evolutionary diversity*. In *JOURNAL OF INTEGRATIVE AGRICULTURE*. ISSN 2095-3119, 2018, vol. 17, no. 4, pp. 878-891., Registrované v: WOS
14. [1.1] RAVN, J. L. - GLITSO, V. - PETTERSSON, D. - DUCATELLE, R. - VAN IMMERSEEL, F. - PEDERSEN, N. R. *Combined endo-beta-1,4-xylanase and alpha-L-arabinofuranosidase increases butyrate concentration during broiler cecal fermentation of maize glucurono-arabinoxylan*. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2018, vol. 236, no., pp. 159-169., Registrované v: WOS
15. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. *A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
16. [1.1] REINA, Rocio - GARCIA-SANCHEZ, Mercedes - LIERS, Christiane - GARCIA-ROMERA, Inmaculada - ARANDA, Elisabet. *An Overview of Fungal Applications in the Valorization of Lignocellulosic Agricultural By-Products: The Case of Two-Phase Olive Mill Wastes*. In *MYCOREMEDIATION AND ENVIRONMENTAL SUSTAINABILITY, VOL 2*. ISSN 2198-7777, 2018, vol., no., pp. 213-238., Registrované v: WOS
17. [1.1] WANG, Yayun - SAKKA, Makiko - YAGI, Haruka - KANEKO, Satoshi - KATSUZAKI, Hirotaka - KUNITAKE, Emi - KIMURA, Tetsuya - SAKKA, Kazuo. *Ruminiclostridium josui Abf62A-Axe6A: A tri-functional xylanolytic enzyme exhibiting alpha-L-arabinofuranosidase, endoxylanase, and acetyl xylan esterase activities*. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2018, vol. 117, no., pp. 1-8., Registrované v: WOS
18. [1.1] WATABE, Y. - SUZUKI, Y. - KOIKE, S. - SHIMAMOTO, S. - KOBAYASHI, Y. *Cellulose acetate, a new candidate feed supplement for ruminant animals: In vitro evaluations*. In *JOURNAL OF DAIRY SCIENCE*. ISSN 0022-0302, 2018, vol. 101, no. 12, pp. 10929-10938., Registrované v: WOS
19. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. *Overexpression of Escherichia coli Acetyl Esterase Using a Strategy of Multi-copy Promoters*. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
20. [1.1] XIE, Chunliang - GONG, Wenbing - ZHU, Zuohua - YAN, Li - HU, Zhenxiu - PENG, Yuande. *Comparative transcriptomics of Pleurotus eryngii reveals blue-light regulation of carbohydrate-active enzymes (CAZymes) expression at primordium differentiated into fruiting body stage*. In *GENOMICS*. ISSN 0888-7543, 2018, vol. 110, no. 3, pp. 201-209., Registrované v: WOS
21. [1.1] YANG, Yi - YANG, Jinshui - LIU, Jiawen - WANG, Ruonan - LIU, Liang - WANG, Fengqin - YUAN, Hongli. *The composition of accessory enzymes of Penicillium chrysogenum P33 revealed by secretome and synergistic effects with commercial cellulase on lignocellulose hydrolysis*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 257, no., pp. 54-61., Registrované v: WOS
22. [1.1] ZHANG, Wenping - LIU, Wenbin - HOU, Rong - ZHANG, Liang - SCHMITZ-ESSER, Stephan - SUN, Huaibo - XIE, Junjin - ZHANG, Yunfei - WANG, Chengdong - LI, Lifeng - YUE, Bisong - HUANG, He - WANG, Hairui - SHEN, Fujun - ZHANG, Zhihe. *Age-associated microbiome shows the giant panda lives on hemicelluloses, not on cellulose*. In *ISME JOURNAL*. ISSN 1751-7362, 2018, vol. 12, no. 5, pp. 1319-1328., Registrované v: WOS
23. [1.2] CEBALLOS, Ruben Michael. *Bioethanol and natural resources: Substrates, chemistry and engineered systems*. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
24. [1.2] LEE, Chang Soo - KONG, Won Sik - PARK, Young Jin. *Genome sequencing and genome-wide identification of carbohydrate-active enzymes (CAZymes) in the white rot fungus Flammulina fennae*. In *Microbiology and Biotechnology Letters*. ISSN 1598642X, 2018-09-01, 46, 3, pp. 300-312., Registrované v: WOS

ADCA83

BIELY, Peter - MALOVIKOVÁ, Anna - UHLIARIKOVÁ, Iveta - LI, Xin-Liang - WONG, Dominic W.S. *Glucuronoyl esterases are active on the polymeric substrate methyl esterified glucuronoxylan*. In *FEBS Letters*, 2015, vol. 589, p. 2334-2339. (2014: 1.860 - SJR). ISSN 1873-3468.

Citácie:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. *Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao -

ADCA84

- VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
3. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
4. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Witttrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
5. [3.2] Group Author(s). Uniprot Consortium. Q9FF78. In *UniProt Knowledgebase*, 2018. Dostupné na internete: <http://www.uniprot.org/Q9FF78>, Registrované v: *Data Citation Index*
- BIELY, Peter - VRŠANSKÁ, Mária - TENKANEN, M. - KLUEPFEL, Dieter. Endo-beta-1,4-xylanase families: differences in catalytic properties. In *Journal of Biotechnology*, 1997, vol. 57, p. 151-166. ISSN 0168-1656.

Citácie:

1. [1.1] ARONSSON, Anna - GULER, Fatma - PETOUKHOV, Maxim V. - CRENNELL, Susan J. - SVERGUN, Dmitri I. - LINARES-PASTEN, Javier A. - KARLSSON, Eva Nordberg. Structural insights of RmXyn10A-A prebiotic-producing GH10 xylanase with a non-conserved aglycone binding region. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. ISSN 1570-9639, 2018, vol. 1866, no. 2, pp. 292-306., Registrované v: WOS
2. [1.1] BLAKE, Andrew D. - BERI, Nina R. - GUTTMAN, Hadassa S. - CHENG, Raymond - GARDNER, Jeffrey G. The complex physiology of *Cellvibrio japonicus* xylan degradation relies on a single cytoplasmic xylosidase for xylo-oligosaccharide utilization. In *MOLECULAR MICROBIOLOGY*. ISSN 0950-382X, 2018, vol. 107, no. 5, pp. 610-622., Registrované v: WOS
3. [1.1] BRUSA, C. - BELLOY, N. - GERARD, D. - MUZARD, M. - DAUCHEZ, M. - PLANTIER-ROYON, R. - REMOND, C. Exploring the aglycone subsite of a GH11 xylanase for the synthesis of xylosides by transglycosylation reactions. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 272, no., pp. 56-63., Registrované v: WOS
4. [1.1] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
5. [1.1] DE QUEIROZ BRITO CUNHA, Carolina Candida - GAMA, Aline Rodrigues - CINTRA, Lorena Cardoso - MENDES BATAUS, Luiz Artur - ULHOA, Cirano Jose. Improvement of bread making quality by supplementation with a recombinant xylanase produced by *Pichia pastoris*. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 2, pp., Registrované v: WOS
6. [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
7. [1.1] DOTSENKO, Gleb - MEYER, Anne S. - CANIBE, Nuria - THYGESEN, Anders - NIELSEN, Michael Krogsgaard - LANGE, Lene. Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2018, vol. 8, no. 3, pp. 497-507., Registrované v: WOS
8. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS
9. [1.1] HUSSON, Eric - AUXENFANS, Thomas - HERBAUT, Mickael - BARALLE, Manon - LAMBERTYN, Virginie - RAKOTOARIVONINA, Harivoni - REMOND, Caroline - SARAZIN, Catherine. Sequential and simultaneous strategies for biorefining of wheat straw using room temperature ionic liquids, xylanases and cellulases. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 251, no., pp. 280-287., Registrované v: WOS
10. [1.1] JAVIER JIMENEZ, Diego - DE MARES, Maryam Chaib - SALLES, Joana Falcao. Temporal Expression Dynamics of Plant Biomass-Degrading Enzymes by a Synthetic Bacterial Consortium Growing on Sugarcane Bagasse. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
11. [1.1] KARLSSON, Eva Nordberg - SCHMITZ, Eva - LINARES-PASTEN, Javier A. - ADLERCREUTZ, Patrick. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In *APPLIED MICROBIOLOGY AND*



- BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9081-9088., Registrované v: WOS
12. [1.1] LI, Qin - SUN, Baoguo - LI, Xiuting - XIONG, Ke - XU, Youqiang - YANG, Ran - HOU, Jie - TENG, Chao. Improvement of the catalytic characteristics of a salt-tolerant GH10 xylanase from *Streptomyces rochei* L10904. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 1447-1455., Registrované v: WOS
13. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
14. [1.1] MACCORMICK, Benjamin - VUONG, Thu V. - MASTER, Emma R. Chemo-enzymatic Synthesis of Clickable Xylo-oligosaccharide Monomers from Hardwood 4-O-Methylglucuronoxylan. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 2, pp. 521-530., Registrované v: WOS
15. [1.1] MADAN, Bharat - LEE, Sun-Gu. Sequence and Structural Features of Subsite Residues in GH10 and GH11 Xylanases. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 3, pp. 311-318., Registrované v: WOS
16. [1.1] MAKELA, M. R. - DIFALCO, M. - MCDONNELL, E. - NGUYEN, T. T. M. - WIEBENGA, A. - HILDEN, K. - PENG, M. - GRIGORIEV, I. V. - TSANG, A. - DE VRIES, R. P. Genomic and exoproteomic diversity in plant biomass degradation approaches among *Aspergilli*. In STUDIES IN MYCOLOGY. ISSN 0166-0616, 2018, vol., no. 91, pp. 79-99., Registrované v: WOS
17. [1.1] MARTINS DE OLIVEIRA, Sandro - MORENO-PEREZ, Sonia - FANCHINI TERRASAN, Cesar Rafael - ROMERO-FERNANDEZ, Maria - VIEIRA, Marcelo Fernandes - GUIBAN, Jose M. - ROCHA-MARTIN, Javier. Covalent immobilization-stabilization of beta-1,4-endoxylanases from *Trichoderma reesei*: Production of xylooligosaccharides. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 64, no., pp. 170-176., Registrované v: WOS
18. [1.1] MATHEW, Sindhu - ARONSSON, Anna - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Xylo- and arabinoxyloligosaccharides from wheat bran by endoxylanases, utilisation by probiotic bacteria, and structural studies of the enzymes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 7, pp. 3105-3120., Registrované v: WOS
19. [1.1] NIDERHAUS, Cecilia - GARRIDO, Mercedes - INSANI, Marina - CAMPOS, Eleonora - WIRTH, Sonia. Heterologous production and characterization of a thermostable GH10 family endo-xylanase from *Pycnoporus sanguineus* BAFC 2126. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 67, no., pp. 92-98., Registrované v: WOS
20. [1.1] RIBEIRO, T. - CARDOSO, V. - FERREIRA, L. M. A. - LORDELO, M. M. S. - COELHO, E. - MOREIRA, A. S. P. - DOMINGUES, M. R. M. - COIMBRA, M. A. - BEDFORD, M. R. - FONTES, C. M. G. A. Xylo-oligosaccharides display a prebiotic activity when used to supplement wheat or corn-based diets for broilers. In POULTRY SCIENCE. ISSN 0032-5791, 2018, vol. 97, no. 12, pp. 4330-4341., Registrované v: WOS
21. [1.1] SENF, Deborah - RUPRECHT, Colin - KISHANI, Saina - MATIC, Aleksandar - TORIZ, Guillermo - GATENHOLM, Paul - WAGBERG, Lars - PFRENGLE, Fabian. Tailormade Polysaccharides with Defined Branching Patterns: Enzymatic Polymerization of Arabinoxylan Oligosaccharides. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 37, pp. 11987-11992., Registrované v: WOS
22. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In FUNGAL METABOLITES. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
23. [1.1] SHAHID, Saher - TAJWAR, Razia - AKHTAR, Muhammad Waheed. A novel trifunctional, family GH10 enzyme from *Acidothermus cellulolyticus* 11B, exhibiting endo-xylanase, arabinofuranosidase and acetyl xylan esterase activities. In EXTREMOPHILES. ISSN 1431-0651, 2018, vol. 22, no. 1, pp. 109-119., Registrované v: WOS
24. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
25. [1.1] SUN, Junyong - LU, Jian - XIE, Guangfa. Secretome analysis of *Trichoderma reesei* CICC41495 for degradation of arabinoxylan in malted barley. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2018, vol. 124, no. 4, pp. 352-358., Registrované v: WOS
26. [1.1] UEDA, Mitsuhiro - KONEMORI, Yuta - NAKAZAWA, Masami - SAKAMOTO, Tatsuji - SAKAGUCHI, Minoru. Heterologous expression and characterization of a cold-adapted endo-1,

- 4-beta glucanase gene from *Bellamyia chinensis laeta*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 74, no., pp. 28-34., Registrované v: WOS
27. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
28. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces L10608*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
29. [1.1] YU, Chunlei - LI, Ting - SHI, Xiangpeng - SALEEM, Muhammad - LI, Baohua - LIANG, Wenxing - WANG, Caixia. Deletion of Endo-beta-1,4-Xylanase VmXylI Impacts the Virulence of *Valsa mali* in Apple Tree. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
30. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
31. [1.2] KALININA, A. N. - GORDEEVA, T. L. - SINEOKY, S. P. Expression of gene for xylanase from *Paenibacillus brasiliensis X1* in *Pichia pastoris* and characteristics of recombinant enzyme. In *Biotechnologiya*. ISSN 02342758, 2018-01-01, 34, 6, pp. 22-32., Registrované v: SCOPUS
32. [1.2] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: SCOPUS
33. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA85

BÍLIKOVÁ, Katarína - HANES, J. - NORDHOFF, E. - SAENGER, W. - KLAUDINY, Jaroslav - ŠIMŮTH, Jozef. Apisimin, a new serine-valine-rich peptide from honeybee (*Apis mellifera* L.) royal jelly: purification and molecular characterization. In *FEBS Letters*, 2002, vol. 528, p. 125-129. ISSN 1873-3468.

Citácie:

- [1.1] BUTTSTEDT, Anja - MURESAN, Carmen I. - LILIE, Hauke - HAUSE, Gerd - IHLING, Christian H. - SCHULZE, Stefan-H. - PIETZSCH, Markus - MORITZ, Robin F. A. How Honeybees Defy Gravity with Royal Jelly to Raise Queens. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2018, vol. 28, no. 7, pp. 1095-+, Registrované v: WOS
- [1.1] DANIHLIK, Jiri - SKRABISOVA, Maria - LENOBEL, Rene - SEBELA, Marek - OMAR, Eslam - PETRIVALSKY, Marek - CRAILSHEIM, Karl - BRODSCHNEIDER, Robert. Does the Pollen Diet Influence the Production and Expression of Antimicrobial Peptides in Individual Honey Bees? In *INSECTS*. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS
- [1.1] DEGRANDI-HOFFMAN, Gloria - GAGE, Stephanie L. - CORBY-HARRIS, Vanessa - CARROLL, Mark - CHAMBERS, Mona - GRAHAM, Henry - DEJONG, Emily Watkins - HIDALGO, Geoffrey - CALLE, Samantha - AZZOUZ-OLDEN, Farida - MEADOR, Charlotte - SNYDER, Lucy - ZIOLKOWSKI, Nick. Connecting the nutrient composition of seasonal pollens with changing nutritional needs of honey bee (*Apis mellifera* L.) colonies. In *JOURNAL OF INSECT PHYSIOLOGY*. ISSN 0022-1910, 2018, vol. 109, no., pp. 114-124., Registrované v: WOS
- [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
- [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
- [1.1] WU, Qinghua - PATOCKA, Jiri - KUČA, Kamil. Insect Antimicrobial Peptides, a Mini Review. In *TOXINS*, 2018, vol. 10, no. 11, pp., Registrované v: WOS
- [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAIDAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented

- food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In *Anticancer plants: Properties and Application*, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
- ADCA86 BÍLIKOVÁ, Katarína - WU, G.S. - ŠIMÚTH, Jozef. Isolation of a peptide fraction honeybee royal jelly as a potential antifoulbrood factor. In *Apidologie*. Vol. 32, (2001), p. 275-283. ISSN 0044-8435.
- Citácie:
- [1.1] ARARSO, Zewdu - MA, Chuan - QI, Yuping - FENG, Mao - HAN, Bin - HU, Han - MENG, Lifeng - LI, Jianke. Proteome Comparisons between Hemolymph of Two Honeybee Strains (*Apis mellifera ligustica*) Reveal Divergent Molecular Basis in Driving Hemolymph Function and High Royal Jelly Secretion. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2018, vol. 17, no. 1, pp. 402-419., Registrované v: WOS
  - [1.1] KHAZAEI, Mozafar - ANSARIAN, Atefe - GHANBARI, Elham. New Findings on Biological Actions and Clinical Applications of Royal Jelly: A Review. In *Journal of Dietary Supplements*. ISSN 19390211, 2018-09-03, 15, 5, pp. 757-775., Registrované v: SCOPUS
  - [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
  - [1.1] SEDIVA, Maria - LAHO, Maros - KOHUTOVA, Lenka - MOJZISOVA, Andrea - MAJTAN, Juraj - KLAUDINY, Jaroslav. 10-HDA, A Major Fatty Acid of Royal Jelly, Exhibits pH Dependent Growth-Inhibitory Activity Against Different Strains of *Paenibacillus* larvae. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 12, pp., Registrované v: WOS
  - [1.1] TEIXEIRA, Erica Weinstein - GUIMARAES-CESTARO, Lubiane - MARQUES FLORENCIO ALVES, Maria Luisa Teles - MESSAGE, Dejair - MARTINS, Marta Fonseca - PINTO DA LUZ, Cynthia Fernandes - SERRAO, Jose Eduardo. Spores of *Paenibacillus* larvae, *Ascosphaera apis*, *Nosema ceranae* and *Nosema apis* in bee products supervised by the Brazilian Federal Inspection Service. In *REVISTA BRASILEIRA DE ENTOMOLOGIA*. ISSN 0085-5626, 2018, vol. 62, no. 3, pp. 188-194., Registrované v: WOS
  - [1.1] WU, Qinghua - PATOCKA, Jiri - KUCA, Kamil. Insect Antimicrobial Peptides, a Mini Review. In *TOXINS*, 2018, vol. 10, no. 11, pp., Registrované v: WOS
- ADCA87 BÍLIK, Vojtech - PETRUŠ, Ladislav - FARKAŠ, Vladimír. Preparation of D-(U-14C) aldopentoses from any D-(U-14C) aldopentose. XXVI. In *Collectection of Czechoslovak Chemical Communications*, 1978, vol. 43, p.1163-1166. ISSN 0010-0765.
- Citácie:
- [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS
  - [1.1] ZIEGLER, Eric W. - KIM, Hyo-Joong - BENNER, Steven A. Molybdenum(VI)-Catalyzed Rearrangement of Prebiotic Carbohydrates in Formamide, a Candidate Prebiotic Solvent. In *ASTROBIOLOGY*. ISSN 1531-1074, 2018, vol. 18, no. 9, pp. 1159-1170., Registrované v: WOS
- ADCA88 BÍLIK, Vojtech - KUČAR, Š. Stereoselective hydroxylation of glycals. In *Carbohydrate Research*, 1970, vol. 13, p. 311-313. ISSN 0008-6215.
- Citácie:
- [1.1] BAYER, Marius - BAECHLE, Felix - ZIEGLER, Thomas. Synthesis and Pd-catalyzed coupling of 1-C-stannylated glycals. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2018, vol. 37, no. 6, pp. 347-369., Registrované v: WOS
- ADCA89 BIRKHOLZ, Alysia - NEMČOVIČ, Marek - YU, Esther Dawen - GIRARDI, Enrico - WANG, Jing - KHURANA, Archana - PAUWELS, Nora - FARBER, Elisa - CHITALE, Sampada - FRANCK, Richard W. - TSUJI, Moriya - HOWELL, Amy - VAN CALENBERGH, Serge - KRONENBERG, Mitchell - ZAJONC, Dirk M. Lipid and carbohydrate modifications of  $\alpha$ -galactosylceramide differently influence mouse and human type I natural killer T cell activation. In *Journal of Biological Chemistry*, 2015, vol. 290, p. 17206-17217. (2014: 4.573 - IF, Q1 - JCR, 3.254 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0021-9258.
- Citácie:
- [1.1] GODFREY, Dale I. - LE NOURS, Jerome - ANDREWS, Daniel M. - ULDRICH, Adam P. - ROSSJOHN, Jamie. Unconventional T Cell Targets for Cancer Immunotherapy. In *IMMUNITY*. ISSN 1074-7613, 2018, vol. 48, no. 3, pp. 453-473., Registrované v: WOS
  - [3.2] Group Author(s). Uniprot Consortium. A0A5B9. IN *UniProt Knowledgebase*, 2018. Dostupné na internete: <http://www.uniprot.org/A0A5B9>, Registrované v: *Data Citation Index*
- ADCA90 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓNA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi  $\alpha$ -mannosidase II. In *Journal of molecular Graphics and Modelling*, 2016, vol. 66, p. 47-57. (2015: 1.674 - IF, Q2 - JCR, 0.474 - SJR, Q2 - SJR,



karentované - CCC). (2016 - Current Contents). ISSN 1093-3263.

Citácie:

1. [1.1] *ESPOSITO, C. - WIEDMER, L. - CAFLISCH, A. In Silico Identification of JMJD3 Demethylase Inhibitors. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2018, vol. 58, no. 10, pp. 2151-2163., Registrované v: WOS*

ADCA91

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Theoretical study of enzymatic catalysis explains why the trapped covalent intermediate in the E303C mutant of glycosyltransferase GTB was not detected in the wild-type enzyme. In *Glycobiology*, 2015, vol. 25, p. 3-7. (2014: 3.147 - IF, Q2 - JCR, 1.535 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0959-6658.

Citácie:

1. [1.1] *WEISSBACH, Sophie - FLUEGGE, Friedemann - PETERS, Thomas. Substrate Binding Drives Active-Site Closing of Human Blood Group B Galactosyltransferase as Revealed by Hot-Spot Labeling and NMR Spectroscopy Experiments. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 9, pp. 970-978., Registrované v: WOS*

ADCA92

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. A theoretical study on the catalytic mechanism of the retaining  $\alpha$ -1,2-mannosyltransferase Kre2p/Mnt1p: the impact of different metal ions on catalysis. In *Organic and Biomolecular Chemistry*, 2014, vol. 12, p. 4201-4210. (2013: 3.487 - IF, 1.481 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1477-0520.

Citácie:

1. [1.1] *SLADEK, Vladimir - TOKIWA, Hiroaki - SHIMANO, Hitoshi - SHIGETA, Yasuteru. Protein Residue Networks from Energetic and Geometric Data: Are They Identical? In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2018, vol. 14, no. 12, pp. 6623-6631., Registrované v: WOS*

ADCA93

BOTH, Peter - SOBCZAK, Lukas - BRETON, Christelle - HANN, Stephan - NOBAUER, Katharina - PASCHINGER, Katharina - KOZMON, Stanislav - MUCHA, Ján - WILSON, Iain B.H. Distantly related plant and nematode core  $\alpha$ 1,3-fucosyltransferases display similar trends in structure-function relationships. In *Glycobiology*, 2011, vol. 21, p. 1401-1415. (2010: 3.791 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0959-6658.

Citácie:

1. [1.1] *BIAN, Bian - KAGESHIMA, Sae - YANO, Kenji - FUJIWARA, Toru - KAMIYA, Takehiro. Screening Arabidopsis thaliana mutants for low sensitivity to manganese identifies novel alleles of NRAMP1 and PGSIP6. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 7, pp. 1795-1803., Registrované v: WOS*

2. [1.1] *YAN, Shi - WANG, Huijie - SCHACHTER, Harry - JIN, Chunsheng - WILSON, Iain B. H. - PASCHINGER, Katharina. Ablation of N-acetylglucosaminyltransferases in Caenorhabditis induces expression of unusual intersected and bisected N-glycans. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2018, vol. 1862, no. 10, pp. 2191-2203., Registrované v: WOS*

3. [3.2] *Group Author(s). Uniprot Consortium. G5EDR5. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/G5EDR5>, Registrované v: Data Citation Index*

ADCA94

BOUTHERIN, B. - MAZEAU, K. - TVAROŠKA, Igor. Conformational statistics of pectin substances in solution by a metropolis Monte Carlo study. In *Carbohydrate Polymers*, 1997, vol. 32, p. 255. (1997 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] *MONGKOLKITIKUL, Sirivipa - PARADEE, Nophawan - SIRIVAT, Anuvat. Electrically controlled release of ibuprofen from conductive poly(3-methoxydiphenylamine)/crosslinked pectin hydrogel. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2018, vol. 112, no., pp. 20-27., Registrované v: WOS*

ADCA95

BRADBROOK, G.M. - GESSLER, K. - CÔTÉ, G.L. - MOMANY, F. - BIELY, Peter - BORDET, P. - PEREZ, S. - IMBERTY, A. X-ray structure determination and modeling of the cyclic tetrasaccharide cyclo-(-6)- $\alpha$ -D-Glcp-(1-3)- $\alpha$ -D-Glcp-(1-3)- $\alpha$ -D-Glcp-(1-). In *Carbohydrate Research*, 2000, vol. 329, p. 655-665. (1999: 1.252 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] *CALDERA, F. - ARGENZIANO, M. - TROTTA, F. - DIANZANI, C. - GIGLIOTTI, L. - TANNOUS, M. - PASTERO, L. - AQUILANO, D. - NISHIMOTO, T. - HIGASHIYAMA, T. - CAVALLI, R. Cyclic nigerosyl-1, 6-nigerose-based nanosponges: An innovative pH and time-controlled nanocarrier for improving cancer treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 111-121., Registrované v: WOS*

2. [1.1] *KOHNO, Masaki - ARAKAWA, Takatoshi - OTA, Hiromi - MORI, Tetsuya - NISHIMOTO, Tomoyuki - FUSHINOBU, Shinya. Structural features of a bacterial cyclic  $\alpha$ -maltosyl-(1 $\rightarrow$ 6)-maltose (CMM) hydrolase critical for CMM recognition and hydrolysis. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 43, pp. 16874-16888., Registrované v: WOS*

ADCA96

BRAMBILLA, Davide - VERPILLOT, Romain - LE DROUMAGUET, Benjamin - NICOLAS, Julien - TAVERNA, Myriam - KÓŇA, Juraj - LETTIERO, Barbara - HASHEMI, Hossein - DE KIMPE, Line - CANOVI, Mara - GOBBI, Marco - NICOLAS, Valérie - SCHEPER, Wiep - MOGHIMI, Moein - TVAROŠKA, Igor - COUVREUR, Patrick - ANDRIEUX, Karine. PEGylated nanoparticles bind to and alter amyloid-beta peptide conformation: Toward engineering of functional nanomedicines for Alzheimer's disease. In *ACS Nano*, 2012, vol. 6, p. 5897-5908. (2011: 10.774 - IF, 6.282 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1936-0851.

Citácie:

1. [1.1] AGRAWAL, Mukta - SARAF, Swarnlata - SARAF, Shailendra - *ANTIMISIARIS, Sophia G. - CHOUGULE, Mahavir Bhupal - SHOYELE, Sunday A. - ALEXANDER, Amit. Nose-to-brain drug delivery: An update on clinical challenges and progress towards approval of anti-Alzheimer drugs. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2018, vol. 281, no., pp. 139-177., Registrované v: WOS*
2. [1.1] AGRAWAL, Mukta - SARAF, Swarnlata - SARAF, Shailendra - *ANTIMISIARIS, Sophia G. - HAMANO, Nobuhito - LI, Shyh-Dar - CHOUGULE, Mahavir - SHOYELE, Sunday A. - GUPTA, Umesh - AJAZUDDIN - ALEXANDER, Amit. Recent advancements in the field of nanotechnology for the delivery of anti-Alzheimer drug in the brain region. In EXPERT OPINION ON DRUG DELIVERY. ISSN 1742-5247, 2018, vol. 15, no. 6, pp. 589-617., Registrované v: WOS*
3. [1.1] CHEN, Ling - DU, Yang - ZHANG, Kai - LIANG, Zeyu - LI, Jinquan - YU, Hao - REN, Rong - FENG, Jin - JIN, Zhiming - LI, Fangyuan - SUN, Jihong - ZHOU, Min - HE, Qinggang - SUN, Xiaolian - ZHANG, Hong - TIAN, Mei - LING, Daishun. *Tau-Targeted Multifunctional Nanocomposite for Combinational Therapy of Alzheimer's Disease. In ACS NANO. ISSN 1936-0851, 2018, vol. 12, no. 2, pp. 1321-1338., Registrované v: WOS*
4. [1.1] CHOI, Yu Ri - KIM, Hyun-Jong - AHN, Guk Young - LEE, Min Jeong - PARK, Ju Ri - JUN, Dae-Ryong - RYU, Tae-Kyoung - PARK, Joo Woong - SHIN, Eunji - CHOI, Sung-Wook. *Fabrication of dihydroxyflavone-conjugated hyaluronic acid nanogels for targeted antitumoral effect. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2018, vol. 171, no., pp. 690-697., Registrované v: WOS*
5. [1.1] DAI, Qiong - BERTLEFF-ZIESCHANG, Nadja - BRAUNGER, Julia A. - BJORNMALM, Mattias - CORTEZ-JUGO, Christina - CARUSO, Frank. *Particle Targeting in Complex Biological Media. In ADVANCED HEALTHCARE MATERIALS. ISSN 2192-2640, 2018, vol. 7, no. 1, pp., Registrované v: WOS*
6. [1.1] GIAU, Vo Van - AN, Seong Soo A. - HULME, John P. *Mitochondrial therapeutic interventions in Alzheimer's disease. In JOURNAL OF THE NEUROLOGICAL SCIENCES. ISSN 0022-510X, 2018, vol. 395, no., pp. 62-70., Registrované v: WOS*
7. [1.1] HAO, Xiaoxia - LI, Chunyan - ZHANG, Yejun - WANG, Haozhi - CHEN, Guangcun - WANG, Mao - WANG, Qiangbin. *Programmable Chemotherapy and Immunotherapy against Breast Cancer Guided by Multiplexed Fluorescence Imaging in the Second Near-Infrared Window. In ADVANCED MATERIALS. ISSN 0935-9648, 2018, vol. 30, no. 51, pp., Registrované v: WOS*
8. [1.1] IVASK, Angela - PILKINGTON, Emily H. - BLIN, Thomas - KAKINEN, Aleksandr - VIJA, Heiki - VISNAPUU, Meeri - QUINN, John F. - WHITTAKER, Michael R. - QIAO, Ruirui - DAVIS, Thomas P. - KE, Pu Chun - VOELCKER, Nicolas H. *Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an in vitro blood brain barrier model. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2018, vol. 6, no. 2, pp. 314-323., Registrované v: WOS*
9. [1.1] KAUSHIK, Aman Chandra - KUMAR, Ajay - DWIVEDI, Vivek Dhar - BHARADWAJ, Shiv - KUMAR, Sanjay - BHARTI, Kritika - KUMAR, Pavan - CHAUDHARY, Ravi Kumar - MISHRA, Sarad Kumar. *Deciphering the Biochemical Pathway and Pharmacokinetic Study of Amyloid beta eta-42 with Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Using Systems Biology Approach. In MOLECULAR NEUROBIOLOGY. ISSN 0893-7648, 2018, vol. 55, no. 4, pp. 3224-3236., Registrované v: WOS*
10. [1.1] LI, Chao - LU, Jianyang - HU, Xiaolu - FENG, Chang - XIANG, Yang - KARAMANOS, Yannis - LI, Genxi. *Assembly of Nanoconjugates as New Kind Inhibitor of the Aggregation of Amyloid Peptides Associated with Alzheimer's Disease. In PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION. ISSN 0934-0866, 2018, vol. 35, no. 3, pp., Registrované v: WOS*
11. [1.1] RAMIREZ-GARCIA, Gonzalo - TRAPIELLA-ALFONSO, Laura - D'ORLYE, Fanny - VARENNE, Anne. *ELECTROPHORETIC METHODS FOR CHARACTERIZING NANOPARTICLES AND EVALUATING THEIR BIO- INTERACTIONS FOR THEIR FURTHER USE AS DIAGNOSTIC, IMAGING, OR THERAPEUTIC TOOLS. In CAPILLARY ELECTROMIGRATION SEPARATION METHODS, 2018, vol., no., pp. 397-421., Registrované v: WOS*
12. [1.1] RUFF, J. - HASSAN, N. - MORALES-ZAVALA, F. - STEITZ, J. - ARAYA, E. - KOGAN,

M. J. - SIMON, U. CLPFFD-PEG functionalized NIR-absorbing hollow gold nanospheres and gold nanorods inhibit beta-amyloid aggregation. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2018, vol. 6, no. 16, pp. 2432-2443., Registrované v: WOS

13. [1.1] SUN, Leming - FAN, Zhen - YUE, Tao - YIN, Jun - FU, Jianzhong - ZHANG, Mingjun. Additive nanomanufacturing of lab-on-a-chip fluorescent peptide nanoparticle arrays for Alzheimer's disease diagnosis. In *BIO-DESIGN AND MANUFACTURING*. ISSN 2096-5524, 2018, vol. 1, no. 3, pp. 182-194., Registrované v: WOS

14. [1.1] TROMPETERO, Adriana - GORDILLO, Aldemar - CAROLINA DEL PILAR, Mora - MARIA CRISTINA, Velasquillo - BUSTOS CRUZ, Rosa Helena. Alzheimer's Disease and Parkinson's Disease: A Review of Current Treatment Adopting a Nanotechnology Approach. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2018, vol. 24, no. 1, pp. 22-45., Registrované v: WOS

15. [1.1] ZHANG, Weiyuan - WANG, Wenyue - YU, David X. - XIAO, Zhicheng - HE, Zhiyong. Application of nanodiagnostics and nanotherapy to CNS diseases. In *NANOMEDICINE*. ISSN 1743-5889, 2018, vol. 13, no. 18, pp., Registrované v: WOS

16. [1.1] ZHANG, Yuqing - XU, Bo - YAO, Mengmeng - DONG, Tianyu - MAO, Zhilei - HANG, Bo - HAN, Xiumei - LIN, Zhongning - BIAN, Qian - LI, Min - XIA, Yankai. Titanium dioxide nanoparticles induce proteostasis disruption and autophagy in human trophoblast cells. In *CHEMICO-BIOLOGICAL INTERACTIONS*. ISSN 0009-2797, 2018, vol. 296, no., pp. 124-133., Registrované v: WOS

ADCA97 BREIEROVÁ, Emília - HROMÁDKOVÁ, Zdenka - STRATILOVÁ, Eva - SASINKOVÁ, Vlasta - EBRINGEROVÁ, Anna. Effect of salt stress on the production and properties of extracellular polysaccharides produced by *Cryptococcus laurentii*. In *Zeitschrift für Naturforschung C*, 2005, vol. 60c, p. 444-450. ISSN 0939-5075.

Citácie:

1. [1.1] ISFAHANI, F. Moshabaki - TAHMOURESPOUR, A. - HOODAJI, M. - ATAABADI, M. - MOHAMMADI, A. Characterizing the new bacterial isolates of high yielding exopolysaccharides under hypersaline conditions. In *JOURNAL OF CLEANER PRODUCTION*. ISSN 0959-6526, 2018, vol. 185, no., pp. 922-928., Registrované v: WOS

2. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS

3. [1.1] MOHITE, Bhavana V. - KOLI, Sunil H. - PATIL, Satish V. Heavy Metal Stress and Its Consequences on Exopolysaccharide (EPS)-Producing *Pantoea agglomerans*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 186, no. 1, pp. 199-216., Registrované v: WOS

ADCA98 BREIEROVÁ, Emília - VAJCIKOVÁ, I. - SASINKOVÁ, Vlasta - STRATILOVÁ, Eva - FIŠERA, M. - GREGOR, T. - ŠAJBIDOR, J. Biosorption of cadmium ions by different yeast species. In *Zeitschrift für Naturforschung C*, 2002, vol. 57, p. 634-639.

Citácie:

1. [1.1] CAO, Feishu - BOURVEN, Isabelle - GUIBAUD, Gilles - RENE, Eldon R. - LENS, Piet N. L. - PECHAUD, Yoan - VAN HULLEBUSCH, Eric D. Alteration of the characteristics of extracellular polymeric substances (EPS) extracted from the fungus *Phanerochaete chrysosporium* when exposed to sub-toxic concentrations of nickel (II). In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 129, no., pp. 179-188., Registrované v: WOS

2. [1.2] EL ENSHASY, Hesham A. - EL MARZUGI, Nagib A. - ELSAYED, Elsayed A. - LING, Ong Mei - MALEK, Roslinda Abd - KEPLI, Afif Najiha - OTHMAN, Nor Zalina - RAMLI, Solleh. Medical and cosmetic applications of fungal nanotechnology: Production, characterization, and bioactivity. In *Fungal Nanobionics: Principles and Applications*, 2018-07-27, pp. 21-59., Registrované v: SCOPUS

ADCA99 BREIEROVÁ, Emília - GREGOR, T. - MAROVÁ, I. - ČERTÍK, M. - KOGAN, Grigorij. Enhanced antioxidant formula based on a selenium-supplemented carotenoid-producing yeast biomass. In *Chemistry & Biodiversity*, 2008, vol. 5, p. 440-446. (2007: 1.420 - IF, karentované - CCC). (2008 - Current Contents). ISSN 1612-1872.

Citácie:

1. [1.1] PIZZOLANTE, Graziano - DURANTE, Miriana - RIZZO, Daniela - DI SALVO, Marco - TREDICI, Salvatore Maurizio - TUFARIELLO, Maria - DE PAOLIS, Angelo - TALA, Adelfia - MITA, Giovanni - ALIFANO, Pietro - DE BENEDETTO, Giuseppe Egidio. Characterization of two *Pantoea* strains isolated from extra-virgin olive oil. In *AMB EXPRESS*. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS



- ADCA100 BREIEROVÁ, Emília - ČERTÍK, Milan\*\* - MÁROVÁ, Ivana - VADKERTIOVÁ, Renáta. Influence of oxidative stress on the uptake of zinc by carotene yeasts: The effect of Zn(II) ions and reactive oxygen on the uptake of zinc and production of carotenoids by selected red yeasts. In Chemistry and Biodiversity, 2018, vol. 15, p. e1800069. (2017: 1.617 - IF, Q4 - JCR, 0.531 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1612-1872.  
Citácie:  
1. [1.1] ROVINARU, Camelia - PASARIN, Diana - CAPRA, Luiza - STOICA, Rusandica. THE EFFECT OF ZnSO<sub>4</sub> IN THE CULTIVATION MEDIUM ON RHODOTORULA GLUTINIS CCY 020-002-033 YEAST BIOMASS GROWTH, beta-CAROTENE PRODUCTION AND ZINC ACCUMULATION. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2018, vol. 8, no. 3, pp. 931-935., Registrované v: WOS
- ADCA101 BREŽNÝ, Robert - MIHÁLOV, Vincent - KOVÁČIK, Vladimír. Low-temperature thermolysis of lignin I. Reactions of beta-O-4 model compounds. In Holzforschung, 1983, vol. 37, p. 199-204.  
Citácie:  
1. [1.1] HAZ, Ales - CHUPACOVA, Nikola - JABLONSKY, Michal - SLADKOVA, Alexandra - BACHRATY, Michal - BURCOVA, Zuzana - KREPS, Frantisek - SURINA, Igor. Influence of Several Metallic Type Catalysts on Lignin Pyrolysis-GC/MS. In RENEWABLE ENERGY SOURCES 2018, 2018, vol., no., pp. 18-21., Registrované v: WOS  
2. [1.1] KHACHATRYAN, Lavrent - BAREKATI-GOUDARZI, Moharnad - KEKEJIAN, David - AGUILAR, Gustavo - ASATRYAN, Rubik - STANLEY, George G. - BOLDOR, Dorin. Pyrolysis of Lignin in Gas-Phase Isothermal and cw-CO<sub>2</sub> Laser Powered Non-Isothermal Reactors. In ENERGY & FUELS. ISSN 0887-0624, 2018, vol. 32, no. 12, pp. 12597-12606., Registrované v: WOS  
3. [1.1] LI, Gang - LI, Lu - JIN, Lijun - TANG, Zichao - FAN, Hongjun - HU, Haoquan. Methyl substitution effect in pyrolysis of coal-based model compound isomers. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2018, vol. 178, no., pp. 371-378., Registrované v: WOS  
4. [1.1] YANEZ, Abraham J. - NATARAJAN, Pradeep - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. Coupled Structural and Kinetic Model of Lignin Fast Pyrolysis. In ENERGY & FUELS. ISSN 0887-0624, 2018, vol. 32, no. 2, pp. 1822-1830., Registrované v: WOS  
5. [1.2] JIANG, Xiaoyan - LU, Qiang - HU, Bin - DONG, Xiaochen - DONG, Changqing. Theoretical Studies on Pyrolysis Process of Lignin Trimer Model Compound. In Taiyangneng Xuebao/Acta Energeticae Solaris Sinica. ISSN 02540096, 2018-01-28, 39, 1, pp. 170-179., Registrované v: SCOPUS
- ADCA102 BREŽNÝ, Robert - PASZNER, L. - MICKO, M.M. - UHRÍN, Dušan. The ion-exchanging lignin derivatives prepared by Mannich reaction with amino acids. In Holzforschung, 1988, vol. 42, p. 369-373. ISSN 0018-3830.  
Citácie:  
1. [1.1] MUSILOVA, Lenka - MRACEK, Ales - KOVALCIK, Adriana - SMOLKA, Petr - MINARIK, Antonin - HUMPOLICEK, Petr - VICHÁ, Robert - PONIZIL, Petr. Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 394-403., Registrované v: WOS
- ADCA103 BREŽNÝ, Robert - SCHRAML, J. 29Si NMR spectral studies of kraft lignin and related model compounds. In Holzforschung, 1987, vol. 41, p. 293-298. ISSN 0018-3830.  
Citácie:  
1. [1.1] HAZ, Ales - CHUPACOVA, Nikola - JABLONSKY, Michal - SLADKOVA, Alexandra - BACHRATY, Michal - BURCOVA, Zuzana - KREPS, Frantisek - SURINA, Igor. Influence of Several Metallic Type Catalysts on Lignin Pyrolysis-GC/MS. In RENEWABLE ENERGY SOURCES 2018, 2018, vol., no., pp. 18-21., Registrované v: WOS
- ADCA104 BREŽNÝ, Robert - ŠURINA, I. - KOŠÍK, M. Low temperature thermolysis of lignins. II. Thermo fractography and thermal analysis of beta-o-4 model compounds. In Holzforschung, 1984, vol. 38, p. 19-24. ISSN 0018-3830.  
Citácie:  
1. [1.1] LI, Gang - LI, Lu - JIN, Lijun - TANG, Zichao - FAN, Hongjun - HU, Haoquan. Methyl substitution effect in pyrolysis of coal-based model compound isomers. In FUEL PROCESSING TECHNOLOGY. ISSN 0378-3820, 2018, vol. 178, no., pp. 371-378., Registrované v: WOS
- ADCA105 BRISSONNET, YOAN, Yoan - ORTIZ MELLET, Carmen - MORANDAT, Sandrine - GARCIA MORENO, Isabel - DENIAUD, David - MATTHEWS, Susan E. - VIDAL, Sébastien - ŠESTÁK, Sergej - EL KIRAT, Karim - GOUIN, Sébastien G. Correction to "Topological effects and binding modes operating with multivalent iminosugar-based glycoclusters and mannosidases". In Journal of the American Chemical Society, 2013, vol. 135, p. 18427-18435". In Journal of the American Chemical Society, 2014, vol. 136, p. 6773-6773. (2013: 11.444 - IF, 5.953 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0002-7863.

## Citácie:

- ADCA106 1. [1.1] CARMONA, Ana T. - CARRION-JIMENEZ, Sebastian - PINGITORE, Valeria - MORENO-CLAVIJO, Elena - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. Harnessing pyrrolidine iminosugars into dimeric structures for the rapid discovery of divalent glycosidase inhibitors. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2018, vol. 151, no., pp. 765-776., Registrované v: WOS
- BRISSONNET, Yoan - ORTIZ MELLET, Carmen - MORANDAT, Sandrine - GARCIA MORENO, Isabel - DENIAUD, David - MATTHEWS, Susan - VIDAL, Sébastien - ŠESTÁK, Sergej - EL KIRAT, Karim - GOUIN, Sébastien. Topological effects and binding modes operating with multivalent iminosugar-based glycoclusters and mannosidases. In *Journal of the American Chemical Society*, 2013, vol. 135, p. 18427-18435. (2012: 10.677 - IF, 6.141 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0002-7863.
- Citácie:
1. [1.1] CARMONA, Ana T. - CARRION-JIMENEZ, Sebastian - PINGITORE, Valeria - MORENO-CLAVIJO, Elena - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. Harnessing pyrrolidine iminosugars into dimeric structures for the rapid discovery of divalent glycosidase inhibitors. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2018, vol. 151, no., pp. 765-776., Registrované v: WOS
2. [1.1] FIGUEREDO, Andreza S. - ZAMONER, Luis O. B. - REJZEK, Martin - FIELD, Robert A. - CARVALHO, Ivone. Cluster glycosides and heteroglycoclusters presented in alternative arrangements. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2018, vol. 59, no. 50, pp. 4405-4409., Registrované v: WOS
3. [1.1] HOWARD, Eduardo - COUSIDO-SIAH, Alexandra - LEPAGE, Mathieu L. - SCHNEIDER, Jeremy P. - BODLENNER, Anne - MITSCHLER, Andre - MELI, Alessandra - IZZO, Irene - ARIEL ALVAREZ, H. - PODJARNY, Alberto - COMPAIN, Philippe. Structural Basis of Outstanding Multivalent Effects in Jack Bean Mannosidase Inhibition. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 27, pp. 8002-8006., Registrované v: WOS
4. [1.1] MATASSINI, C. - VANNI, C. - GOTI, A. - MORRONE, A. - MARRADI, M. - CARDONA, F. Multimerization of DAB-I onto Au GNPs affords new potent and selective N-acetylgalactosamine-6-sulfatase (GALNS) inhibitors. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 44, pp. 8604-8612., Registrované v: WOS
- ADCA107 BRISSONNET, Yoan - LADEVOZE, Simon - TEZÉ, David - FABRE, Emeline - DENIAUD, David - DALIGAULT, Franck - TELLIER, Charles - ŠESTÁK, Sergej - REMAUD-SIMEON, Magali - POTOCKI-VERONESE, Gabrielle - GOUIN, Sébastien G. Polymeric iminosugars improve the activity of carbohydrate-processing enzymes. In *Bioconjugate Chemistry*, 2015, vol. 26, p. 766-772. (2014: 4.513 - IF, Q1 - JCR, 1.704 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1043-1802.
- Citácie:
1. [1.1] DING, Feiqing - ISHIWATA, Akihiro - ITO, Yukishige. Bimodal Glycosyl Donors Protected by 2-O-(ortho-Tosylamido)benzyl Group. In *ORGANIC LETTERS*. ISSN 1523-7060, 2018, vol. 20, no. 14, pp. 4384-4388., Registrované v: WOS
2. [1.1] FIGUEREDO, Andreza S. - ZAMONER, Luis O. B. - REJZEK, Martin - FIELD, Robert A. - CARVALHO, Ivone. Cluster glycosides and heteroglycoclusters presented in alternative arrangements. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2018, vol. 59, no. 50, pp. 4405-4409., Registrované v: WOS
3. [1.1] MATASSINI, C. - VANNI, C. - GOTI, A. - MORRONE, A. - MARRADI, M. - CARDONA, F. Multimerization of DAB-I onto Au GNPs affords new potent and selective N-acetylgalactosamine-6-sulfatase (GALNS) inhibitors. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 44, pp. 8604-8612., Registrované v: WOS
4. [1.1] NIERENGARTEN, Jean-Francois - SCHNEIDER, Jeremy P. - THI MINH NGUYET TRINH - JOOSTEN, Antoine - HOLLER, Michel - LEPAGE, Mathieu L. - BODLENNER, Anne - GARCIA-MORENO, M. Isabel - ORTIZ MELLET, Carmen - COMPAIN, Philippe. Giant Glycosidase Inhibitors: First- and Second-Generation Fullerodendrimers with a Dense Iminosugar Shell. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 10, pp. 2483-2492., Registrované v: WOS
5. [1.1] TANGARA, Salia - KANAZAWA, Alice - FAYOLLE, Martine - PHILOUZE, Christian - POISSON, Jean-Francois - BEHR, Jean-Bernard - PY, Sandrine. Short synthesis, X-ray and conformational analysis of a cyclic peracetylated l-sorbose-derived nitrone, a useful intermediate towards N-O-containing d-gluco-iminosugars. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2018, vol. 42, no. 20, pp. 16735-16743., Registrované v: WOS
- ADCA108 BROADLEY, M.R. - WHITE, P.J. - HAMMOND, J.P. - ZELKO, Ivan - LUX, Alexander. Zinc in plants. In *New Phytologist*, 2007, vol. 173, p. 677-702. ISSN 0028-646X.



## Citácie:

1. [1.1] ACHARJEE, Kaushik - SARKAR, Jayanwita - DEB, Prahlad - CHACKRABORTY, Usha - SINHA, Biswajit. Efficacy of  $N_2O_2$  donor Schiff bases and their  $Zn^{2+}$  complexes on various morphological and biochemical parameters of *Cicer arietinum* L. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2018, vol. 41, no. 4, pp. 487-496., Registrované v: WOS
2. [1.1] ADEKIYA, A. O. - ABOYEJI, C. M. - AGBEDE, T. M. - DUNSIN, O. - ADEBIYI, O. T. Effect of  $ZnSO_4$  fertilizer on soil chemical properties, performance and proximate quality of sweet potato in a derived savanna ecology of Nigeria. In *OPEN AGRICULTURE*. ISSN 2391-9531, 2018, vol. 3, no. 1, pp. 644-651., Registrované v: WOS
3. [1.1] ADELE, Nyekachi C. - NGWENYA, Bryne T. - HEAL, Kate V. - MOSSELMANS, J. Frederick W. Soil Bacteria Override Speciation Effects on Zinc Phytotoxicity in Zinc-Contaminated Soils. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2018, vol. 52, no. 6, pp. 3412-3421., Registrované v: WOS
4. [1.1] AKHTAR, Sajjad - OSTHOFF, Gernot - MASHINGAIDZE, Kingstone - LABUSCHAGNE, Maryke. Iron and Zinc in Maize in the Developing World: Deficiency, Availability, and Breeding. In *CROP SCIENCE*. ISSN 0011-183X, 2018, vol. 58, no. 6, pp. 2200-2213., Registrované v: WOS
5. [1.1] ALEAMOTU, A. Maketalena - TAI, Yu-Ting - MCCURDY, David W. - COLLINGS, David A. Developmental Biology and Induction of Phi Thickenings by Abiotic Stress in Roots of the Brassicaceae. In *PLANTS-BASEL*. ISSN 2223-7747, 2018, vol. 7, no. 2, pp., Registrované v: WOS
6. [1.1] ANAND, Thangaraj - KUMAR, Ashok S. K. - SAHOO, Suban K. A novel Schiff base derivative of pyridoxal for the optical sensing of  $Zn^{2+}$  and cysteine. In *PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES*. ISSN 1474-905X, 2018, vol. 17, no. 4, pp. 414-422., Registrované v: WOS
7. [1.1] ANDRAS, Peter - MATOS, Joao Xavier - TURISOVA, Ingrid - BATISTA, Maria Joao - KANIANSKA, Radoslava - KHARBISH, Sherif. The interaction of heavy metals and metalloids in the soil-plant system in the So Domingos mining area (Iberian Pyrite Belt, Portugal). In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2018, vol. 25, no. 21, pp. 20615-20630., Registrované v: WOS
8. [1.1] ANDRESEN, Elisa - PEITER, Edgar - KUPPER, Hendrik. Trace metal metabolism in plants. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2018, vol. 69, no. 5, pp. 909-954., Registrované v: WOS
9. [1.1] ARES, Angela - ITOUGA, Misao - KATO, Yukari - SAKAKIBARA, Hitoshi. Differential Metal Tolerance and Accumulation Patterns of Cd, Cu, Pb and Zn in the Liverwort *Marchantia polymorpha* L. In *BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY*. ISSN 0007-4861, 2018, vol. 100, no. 3, pp. 444-450., Registrované v: WOS
10. [1.1] ATTEYA, Amira K. G. - GENAIDY, Esmail A. E. - ZAHRAN, Hamdy. A. Chemical constituents and yield of *Simmondsia chinensis* plants as affected by foliar application of gibberellic acid and zinc sulphate. In *BIOSCIENCE RESEARCH*. ISSN 1811-9506, 2018, vol. 15, no. 3, pp. 1528-1541., Registrované v: WOS
11. [1.1] BARAN, Agnieszka - WIECZOREK, Jerzy - MAZUREK, Ryszard - URBANSKI, Krzysztof - KLIMKOWICZ-PAWLAS, Agnieszka. Potential ecological risk assessment and predicting zinc accumulation in soils. In *ENVIRONMENTAL GEOCHEMISTRY AND HEALTH*. ISSN 0269-4042, 2018, vol. 40, no. 1, pp. 435-450., Registrované v: WOS
12. [1.1] BASKAR, Venkidasamy - NAYEEM, Safia - KUPPURAJ, Sree Preethy - MUTHU, Thiruvengadam - RAMALINGAM, Sathishkumar. Assessment of the effects of metal oxide nanoparticles on the growth, physiology and metabolic responses in in vitro grown eggplant (*Solanum melongena*). In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 8, pp., Registrované v: WOS
13. [1.1] BHATTI, Sandip Singh - SAMBYAL, Vasudha - NAGPAL, Avinash Kaur. Analysis of Genotoxicity of Agricultural Soils and Metal (Fe, Mn, and Zn) Accumulation in Crops. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH*. ISSN 1735-6865, 2018, vol. 12, no. 4, pp. 439-449., Registrované v: WOS
14. [1.1] BIBBIANI, Susanna - COLZI, Ilaria - TAITI, Cosimo - NISSIM, Werther Guidi - PAPINI, Alessio - MANCUSO, Stefano - GONNELLI, Cristina. Smelling the metal: Volatile organic compound emission under Zn excess in the mint *Tetradenia riparia*. In *PLANT SCIENCE*. ISSN 0168-9452, 2018, vol. 271, no., pp. 1-8., Registrované v: WOS
15. [1.1] BIRCA, Alexandra Catalina - NEACSU, Ionela Andreea - VASILE, Otilia Ruxandra - CIUCA, Ion - VASILE, Ion Mihai - FAYEQ, Mohammed Alqasim - VASILE, Bogdan Stefan. Mg-Zn alloys, most suitable for biomedical applications. In *ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY*. ISSN 1220-0522, 2018, vol. 59, no. 1, pp. 49-54., Registrované v: WOS
16. [1.1] BRUGGER, Joel. Zinc. In *ENCYCLOPEDIA OF GEOCHEMISTRY: A COMPREHENSIVE REFERENCE SOURCE ON THE CHEMISTRY OF THE EARTH*. ISSN 1388-4360, 2018, vol., no., pp. 1521-1524., Registrované v: WOS

17. [1.1] ÇAKMAK, I. - KUTMAN, U. B. Agronomic biofortification of cereals with zinc: a review. In *EUROPEAN JOURNAL OF SOIL SCIENCE*. ISSN 1351-0754, 2018, vol. 69, no. 1, pp. 172-180., Registrované v: WOS
18. [1.1] CANDAN, Nilgun - ÇAKMAK, Ismail - ÖZTURK, Levent. Zinc-biofortified seeds improved seedling growth under zinc deficiency and drought stress in durum wheat. In *JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE*. ISSN 1436-8730, 2018, vol. 181, no. 3, pp. 388-395., Registrované v: WOS
19. [1.1] CASTILLO-GONZALEZ, Jorge - OJEDA-BARRIOS, Dimaris - HERNANDEZ-RODRIGUEZ, Adriana - CECILIA GONZALEZ-FRANCO, Ana - ROBLES-HERNANDEZ, Loreto - ROGELIO LOPEZ-OCHOA, Gustavo. ZINC METALLOENZYMES IN PLANTS. In *INTERCIENCIA*. ISSN 0378-1844, 2018, vol. 43, no. 4, pp. 242-248., Registrované v: WOS
20. [1.1] CHEN, Qin - GONG, Chunyan - JU, Xin - ZHU, Zhengbo - SHEN, Wenbiao - SHEN, Zhengu - CUI, Jin. Hemin Through the Heme Oxygenase 1/Ferrous Iron, Carbon Monoxide System Involved in Zinc Tolerance in *Oryza Sativa* L. In *JOURNAL OF PLANT GROWTH REGULATION*. ISSN 0721-7595, 2018, vol. 37, no. 3, pp. 947-957., Registrované v: WOS
21. [1.1] CHEN, Xiaochao - LUDEWIG, Uwe. Biomass increase under zinc deficiency caused by delay of early flowering in *Arabidopsis*. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2018, vol. 69, no. 5, pp. 1269-1279., Registrované v: WOS
22. [1.1] CHEN, Xiaochao - SCHOENBERGER, Brigitte - MENZ, Jochen - LUDEWIG, Uwe. Plasticity of DNA methylation and gene expression under zinc deficiency in *Arabidopsis* roots. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2018, vol. 59, no. 9, pp. 1790-1802., Registrované v: WOS
23. [1.1] CHENG, Yiran - WANG, Chao - CHAI, Songyue - SHUAI, Wendi - SHA, Lina - ZHANG, Haiqin - KANG, Houyang - FAN, Xing - ZENG, Jian - ZHOU, Yonghong - WANG, Yi. Ammonium N influences the uptakes, translocations, subcellular distributions and chemical forms of Cd and Zn to mediate the Cd/Zn interactions in dwarf polish wheat (*Triticum polonicum* L.) seedlings. In *CHEMOSPHERE*. ISSN 0045-6535, 2018, vol. 193, no., pp. 1164-1171., Registrované v: WOS
24. [1.1] COSTEROSSE, Benjamin - SCHONHOLZER-MAUCLAIRE, Laurie - FROSSARD, Emmanuel - THONAR, Cecile. Identification of Heterotrophic Zinc Mobilization Processes among Bacterial Strains Isolated from Wheat Rhizosphere (*Triticum aestivum* L.). In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 1, pp., Registrované v: WOS
25. [1.1] DA SILVA, Rodrigo Ferreira - DA ROS, Clovis Orlando - ANTONIOLLI, Zaida Ines - GROLLI, Andre Luis - SCHEID, Douglas Leandro - BERTOLLO, Gilvan Moises - MISSIO, Evandro Luis. GROWTH AND TOLERANCE OF *Enterolobium contortisiliquum* Vell. SEEDLINGS GROWN IN CONTAMINATED SOIL WITH ZINC. In *CIENCIA FLORESTAL*. ISSN 0103-9954, 2018, vol. 28, no. 3, pp. 979-986., Registrované v: WOS
26. [1.1] DAS, Arpita - LAHA, Samrat - MANDAL, Sanchita - PAL, Sukanta - SIDDIQUI, Mohammed Wasim. Preharvest Biofortification of Horticultural Crops. In *PREHARVEST MODULATION OF POSTHARVEST FRUIT AND VEGETABLE QUALITY*, 2018, vol., no., pp. 381-434., Registrované v: WOS
27. [1.1] DE BIASI, Margherita G. - MARABOTTINI, Rosita - PAOLACCI, Anna Rita - CIAFFI, Mario - NALI, Cristina - LORENZINI, Giacomo - BADIANI, Maurizio. On the interactions among zinc availability and responses to ozone stress in durum wheat seedlings. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2018, vol. 25, no. 9, pp. 8181-8189., Registrované v: WOS
28. [1.1] DE LA RIVA, Enrique G. - VILLAR, Rafael - PEREZ-RAMOS, Ignacio M. - LUIS QUERO, Jose - MATIAS, Luis - POORTER, Lourens - MARANON, Teodoro. Relationships between leaf mass per area and nutrient concentrations in 98 Mediterranean woody species are determined by phylogeny, habitat and leaf habit. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2018, vol. 32, no. 2, pp. 497-510., Registrované v: WOS
29. [1.1] DE OLIVEIRA, Alexandre Bosco - COSTA, Anne Pinheiro - LONDE, Luciana C. N. - SCHAFFER, Bruce - VARGAS, Ana - VENDRAME, Wagner A. EFFECTIVENESS OF A MICRONUTRIENT DELIVERY SYSTEM FERTILIZER IN *JATROPHA* PLANTS IS RELATED TO ENHANCED PHOTOSYNTHESIS, GAS EXCHANGE AND BIOMASS ALLOCATION. In *BIOSCIENCE JOURNAL*. ISSN 1981-3163, 2018, vol. 34, no. 6, pp. 97-107., Registrované v: WOS
30. [1.1] DE OLIVEIRA, Alexandre Bosco - VENDRAME, Wagner - COSTA, Anne Pinheiro - LONDE, Luciana C. N. QUANTITATIVE ANALYSIS OF *JATROPHA* GROWTH: MICRONUTRIENT DELIVERY SYSTEM AND NPK COMBINED EFFECTS. In *BIOSCIENCE JOURNAL*. ISSN 1981-3163, 2018, vol. 34, no. 6, pp. 17-27., Registrované v: WOS
31. [1.1] DESHPANDE, Paresh - DAPKEKAR, Ashwin - OAK, Manoj - PAKNIKAR, Kishore - RAJWADE, Jyutika. Nanocarrier-mediated foliar zinc fertilization influences expression of metal

- homeostasis related genes in flag leaves and enhances gluten content in durum wheat. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
32. [1.1] DINAKE, Pogisego - MAPHANE, Onneetse - SEBOGISI, Karabo - KAMWI, Obed. Pollution status of shooting range soils from Cd, Cu, Mn, Ni and Zn found in ammunition. In *COGENT ENVIRONMENTAL SCIENCE*. ISSN 2331-1843, 2018, vol. 4, no. 1, pp., Registrované v: WOS
33. [1.1] DINESH, R. - SRINIVASAN, V. - HAMZA, S. - SARATHAMBAL, C. - GOWDA, S. J. Anke - GANESHAMURTHY, A. N. - GUPTA, S. B. - NAIR, V. Aparna - SUBILA, K. P. - LIJINA, A. - DIVYA, V. C. Isolation and characterization of potential Zn solubilizing bacteria from soil and its effects on soil Zn release rates, soil available Zn and plant Zn content. In *GEODERMA*. ISSN 0016-7061, 2018, vol. 321, no., pp. 173-186., Registrované v: WOS
34. [1.1] DIONISIO, Giuseppe - UDDIN, Mohammad Nasir - VINCZE, Eva. Enrichment and Identification of the Most Abundant Zinc Binding Proteins in Developing Barley Grains by Zinc-IMAC Capture and Nano LC-MS/MS. In *PROTEOMES*. ISSN 2227-7382, 2018, vol. 6, no. 1, pp., Registrované v: WOS
35. [1.1] DLUDLU, Meshack N. - CHIMPHANGO, Samson B. M. - STIRTON, Charles H. - MUASYA, A. Muthama. Distinct edaphic habitats are occupied by discrete legume assemblages with unique indicator species in the Cape Peninsula of South Africa. In *JOURNAL OF PLANT ECOLOGY*. ISSN 1752-9921, 2018, vol. 11, no. 4, pp. 632-644., Registrované v: WOS
36. [1.1] DU, Hong - LIANG, Honghao - JIANG, Yang - QU, Xiaoxiao - YAN, Haibo - LIU, Xiaojuan. Proteome responses of *Gracilaria lemaneiformis* exposed to lead stress. In *MARINE POLLUTION BULLETIN*. ISSN 0025-326X, 2018, vol. 135, no., pp. 311-317., Registrované v: WOS
37. [1.1] GARCIA-GOMEZ, Concepcion - GARCIA, Sandra - FRANCISCA OBRADOR, Ana - GONZALEZ, Demetrio - BABIN, Mar - DOLORES FERNANDEZ, Maria. Effects of aged ZnO NPs and soil type on Zn availability, accumulation and toxicity to pea and beet in a greenhouse experiment. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2018, vol. 160, no., pp. 222-230., Registrované v: WOS
38. [1.1] GARG, Neera - SINGH, Sandeep. Mycorrhizal inoculations and silicon fortifications improve rhizobial symbiosis, antioxidant defense, trehalose turnover in pigeon pea genotypes under cadmium and zinc stress. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2018, vol. 86, no. 1, pp. 105-119., Registrované v: WOS
39. [1.1] GHASAL, Prakash Chand - SHIVAY, Yashbir Singh - POONIYA, Vijay - CHOUDHARY, Mukesh - VERMA, Rakesh Kumar. Zinc partitioning in basmati rice varieties as influenced by Zn fertilization. In *CROP JOURNAL*. ISSN 2095-5421, 2018, vol. 6, no. 2, pp. 136-147., Registrované v: WOS
40. [1.1] GRUJCIC, Djordje - HANSEN, Thomas Hesselhoj - HUSTED, Soren - DRINIC, Milanka - SINGH, Bal Ram. Effect of nitrogen and zinc fertilization on zinc and iron bioavailability and chemical speciation in maize silage. In *JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY*. ISSN 0946-672X, 2018, vol. 49, no., pp. 269-275., Registrované v: WOS
41. [1.1] GRZESZCZUK, Monika - STEFANIAK, Anna - MELLER, Edward - WYSOCKA, Gabriela. MINERAL COMPOSITION OF SOME EDIBLE FLOWERS. In *JOURNAL OF ELEMENTOLOGY*. ISSN 1644-2296, 2018, vol. 23, no. 1, pp. 151-162., Registrované v: WOS
42. [1.1] HAIDER, Muhammad Umar - FAROOQ, Muhammad - NAWAZ, Ahmad - HUSSAIN, Mubshar. Foliage Applied Zinc Ensures Better Growth, Yield and Grain Biofortification of Mungbean. In *INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY*. ISSN 1560-8530, 2018, vol. 20, no. 12, pp. 2817-2822., Registrované v: WOS
43. [1.1] HAIDER, Muhammad Umar - HUSSAIN, Mubshar - FAROOQ, Muhammad - NAWAZ, Ahmad. Soil application of zinc improves the growth, yield and grain zinc biofortification of mungbean. In *SOIL & ENVIRONMENT*. ISSN 2074-9546, 2018, vol. 37, no. 2, pp. 123-128., Registrované v: WOS
44. [1.1] HSIEH, Ping-Han - KAN, Chia-Cheng - WU, Hsin-Yu - YANG, Hsiu-Chun - HSIEH, Ming-Hsiun. Early molecular events associated with nitrogen deficiency in rice seedling roots. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
45. [1.1] HUO, Fangjun - WU, Qing - KANG, Jin - ZHANG, Yongbin - YIN, Caixia. A specific fluorescent probe for zinc ion based on thymolphthalein and its application in living cells. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 262, no., pp. 263-269., Registrované v: WOS
46. [1.1] HUSSAIN, Shahid - SAHAR, Kiran - NAEEM, Asif - ZAFAR-UL-HYE, Muhammad - AON, Muhammad. Combined zinc and nitrogen applications at panicle initiation for zinc biofortification in rice. In *PERIODICUM BIOLOGORUM*. ISSN 0031-5362, 2018, vol. 120, no. 2-3, pp. 105-110., Registrované v: WOS
47. [1.1] IQBAL, Muhammad Naveed - RASHEED, Rizwan - ASHRAF, Muhammad Yasin -



- ASHRAF, Muhammad Arslan - HUSSAIN, Iqbal. Exogenously applied zinc and copper mitigate salinity effect in maize (*Zea mays* L.) by improving key physiological and biochemical attributes. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2018, vol. 25, no. 24, pp. 23883-23896., Registrované v: WOS
48. [1.1] IVAN GONZALEZ, Cesar - ALEJANDRA MAINE, Maria - RICARDO HADAD, Hernan - CRISTINA SANCHEZ, Gabriela - PATRICIA BENAVIDES, Maria - ABEL CAMPAGNOLI, Marcelo. Effects on *Eichhornia crassipes* under Zn stress. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2018, vol. 25, no. 27, pp. 26957-26964., Registrované v: WOS
49. [1.1] KATUURAMU, Dennis N. - HART, John P. - PORCH, Timothy G. - GRUSAK, Michael A. - GLAHN, Raymond P. - CICHY, Karen A. Genome-wide association analysis of nutritional composition-related traits and iron bioavailability in cooked dry beans (*Phaseolus vulgaris* L.). In *MOLECULAR BREEDING*. ISSN 1380-3743, 2018, vol. 38, no. 4, pp., Registrované v: WOS
50. [1.1] KHAIRIL, M. - BURSLEM, David F. R. P. Controls on foliar aluminium accumulation among populations of the tropical shrub *Melastoma malabathricum* L. (*Melastomataceae*). In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2018, vol. 38, no. 11, pp. 1752-1760., Registrované v: WOS
51. [1.1] KUMAR, Vinay - SACHDEV, Divya - PASRICHA, Renu - MAHESHWARI, Priyanka H. - TANEJA, Neetu Kumra. Zinc-Supported Multiwalled Carbon Nanotube Nanocomposite: A Synergism to Micronutrient Release and a Smart Distributor To Promote the Growth of Onion Seeds in Arid Conditions. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2018, vol. 10, no. 43, pp. 36733-36745., Registrované v: WOS
52. [1.1] LEITAO, T. E. - CAMEIRA, M. R. - COSTA, H. D. - PACHECO, J. M. - HENRIQUES, M. J. - MARTINS, L. L. - MOURATO, M. P. Environmental Quality in Urban Allotment Gardens: Atmospheric Deposition, Soil, Water and Vegetable Assessment at LISBON City. In *WATER AIR AND SOIL POLLUTION*. ISSN 0049-6979, 2018, vol. 229, no. 2, pp., Registrované v: WOS
53. [1.1] LEITNER, Jindrich - SEDMIDUBSKY, David - JANKOVSKY, Ondrej. Effect of ZnO nanosizing on its solubility in aqueous media. In *MICRO & NANO LETTERS*. ISSN 1750-0443, 2018, vol. 13, no. 11, pp. 1585-1589., Registrované v: WOS
54. [1.1] LEKEUX, Gilles - LAURENT, Clementine - JORIS, Marine - JADOUL, Alice - JIANG, Dan - BOSMAN, Bernard - CARNOL, Monique - MOTTE, Patrick - XIAO, Zhiguang - GALLEN, Moreno - HANIKENNE, Marc. di-Cysteine motifs in the C-terminus of plant HMA4 proteins confer nanomolar affinity for zinc and are essential for HMA4 function in vivo. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2018, vol. 69, no. 22, pp. 5547-5560., Registrované v: WOS
55. [1.1] LEON-MEDIAVILLA, Javier - SENOVILLA, Marta - MONTIEL, Jesus - GIL-DIEZ, Patricia - SAEZ, Angela - KRYVORUCHKO, Igor S. - REGUERA, Maria - UDVARDI, Michael K. - IMPERIAL, Juan - GONZALEZ-GUERRERO, Manuel. MtMTP2-Facilitated Zinc Transport Into Intracellular Compartments Is Essential for Nodule Development in *Medicago truncatula*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
56. [1.1] LYU, Jie - PARK, Jihae - PANDEY, Lalit Kumar - CHOI, Soyeon - LEE, Hojun - DE SAEGER, Jonas - DEPUYDT, Stephen - HAN, Taejun. Testing the toxicity of metals, phenol, effluents, and receiving waters by root elongation in *Lactuca sativa* L. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2018, vol. 149, no., pp. 225-232., Registrované v: WOS
57. [1.1] MAGER, Svenja - SCHOENBERGER, Brigitte - LUDEWIG, Uwe. The transcriptome of zinc deficient maize roots and its relationship to DNA methylation loss. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2018, vol. 18, no., pp., Registrované v: WOS
58. [1.1] MARTIN, Ruth C. - VINING, Kelly - DOMBROWSKI, James E. Genome-wide (ChIP-seq) identification of target genes regulated by BdbZIP10 during paraquat-induced oxidative stress. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2018, vol. 18, no., pp., Registrované v: WOS
59. [1.1] MIEREK-ADAMSKA, Agnieszka - ZNAJEWSKA, Zuzanna - GOC, Anna - DABROWSKA, Grazyna Barbara. Molecular cloning and characterization of *Ipomoea nil* metallothioneins. In *TURKISH JOURNAL OF BOTANY*. ISSN 1300-008X, 2018, vol. 42, no. 3, pp. 247-256., Registrované v: WOS
60. [1.1] MOHAMMADI, Morad - HOSEINI, Naser Majnoun - CHAICHI, Mohammad Reza - ALIPOUR, Hadi - DASHTAKI, Mohammad - SAFIKHANI, Sara. Influence of nano-iron oxide and zinc sulfate on physiological characteristics of peppermint. In *COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS*. ISSN 0010-3624, 2018, vol. 49, no. 18, pp. 2315-2326., Registrované v: WOS
61. [1.1] MYKOLENKO, S. - LIEDIENOV, V. - KHARYTONOV, M. - MAKIEIEVA, N. - KULIUSH, T. - QUERALT, I. - MARGUI, E. - HIDALGO, M. - PARDINI, G. - GISPERT, M. Presence, mobility and bioavailability of toxic metal(oids) in soil, vegetation and water around a

- Pb-Sb recycling factory (Barcelona, Spain). In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2018, vol. 237, no., pp. 569-580., Registrované v: WOS*
62. [1.1] NARDIS, Barbara O. - SILVA, Enilson B. - GRAZZIOTTI, Paulo H. - ALLEONI, Luis R. F. - MELO, Leonidas C. A. - FARNEZI, Mucio M. M. Availability and zinc accumulation in forage grasses grown in contaminated soil. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, 2018, vol. 20, no. 3, pp. 205-213., Registrované v: WOS
63. [1.1] NEGRILA, Catalin Constantin - PREDOI, Mihai Valentin - ICONARU, Simona Liliana - PREDOI, Daniela. Development of Zinc-Doped Hydroxyapatite by Sol-Gel Method for Medical Applications. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS
64. [1.1] NKURUMAH, Philip Nti - ECHEVARRIA, Guillaume - ERSKINE, Peter D. - VAN DER ENT, Antony. Contrasting nickel and zinc hyperaccumulation in subspecies of *Dichapetalum gelonioides* from Southeast Asia. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
65. [1.1] ORANI, Anna Maria - BARATS, Aurelie - VASSILEVA, Emilia - THOMAS, Olivier P. Marine sponges as a powerful tool for trace elements biomonitoring studies in coastal environment. In MARINE POLLUTION BULLETIN. ISSN 0025-326X, 2018, vol. 131, no., pp. 633-645., Registrované v: WOS
66. [1.1] OZAKI, Shinji - FRITSCH, Clementine - VALOT, Benoit - MORA, Frederic - CORNIER, Thierry - SCHEIFLER, Renaud - RAOUL, Francis. Does pollution influence small mammal diet in the field? A metabarcoding approach in a generalist consumer. In MOLECULAR ECOLOGY. ISSN 0962-1083, 2018, vol. 27, no. 18, pp. 3700-3713., Registrované v: WOS
67. [1.1] PAUNOV, Momchil - KOLEVA, Lyubka - VASSILEV, Andon - VANGRONSVELD, Jaco - GOLTSEV, Vasilij. Effects of Different Metals on Photosynthesis: Cadmium and Zinc Affect Chlorophyll Fluorescence in Durum Wheat. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
68. [1.1] PEREIRA, Talitha Soares - PEREIRA, Thais Soares - FIGUEREDO DE CARVALHO SOUZA, Carla Leticia - ALVINO LIMA, Emilly Juliane - BATISTA, Bruno Lemos - DA SILVA LOBATO, Allan Klynger. Silicon deposition in roots minimizes the cadmium accumulation and oxidative stress in leaves of cowpea plants. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2018, vol. 24, no. 1, pp. 99-114., Registrované v: WOS
69. [1.1] PRASAD, Rajendra - SHIVAY, Yashbir Singh. Relative grain zinc loading ability of cereals (rice, wheat, maize) and a grain legume (chickpea). In INDIAN JOURNAL OF AGRICULTURAL SCIENCES. ISSN 0019-5022, 2018, vol. 88, no. 2, pp. 307-313., Registrované v: WOS
70. [1.1] QIU, Yang - XIE, ZhongKui - WANG, XinPing - WANG, YaJun - ZHANG, YuBao - HE, YuHui - LI, WenMei - LV, WenCong. Effect of slow-release iron fertilizer on iron-deficiency chlorosis, yield and quality of *Lilium davidii* var. *unicolor* in a two-year field experiment. In SCIENCES IN COLD AND ARID REGIONS. ISSN 1674-3822, 2018, vol. 10, no. 5, pp. 421-427., Registrované v: WOS
71. [1.1] RAJIV, P. - VANATHI, P. - THANGAMANI, A. An investigation of phytotoxicity using *Eichhornia* mediated zinc oxide nanoparticles on *Helianthus annuus*. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2018, vol. 16, no., pp. 419-424., Registrované v: WOS
72. [1.1] RANA, Vivek - MAITI, Subodh Kumar. Differential distribution of metals in tree tissues growing on reclaimed coal mine overburden dumps, Jharia coal field (India). In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 10, pp. 9745-9758., Registrované v: WOS
73. [1.1] REEVES, Roger D. - VAN DER ENT, Antony - BAKER, Alan J. M. Global Distribution and Ecology of Hyperaccumulator Plants. In AGROMINING: FARMING FOR METALS: EXTRACTING UNCONVENTIONAL RESOURCES USING PLANTS. ISSN 2365-0559, 2018, vol., no., pp. 75-92., Registrované v: WOS
74. [1.1] REHMAN, Abdul - FAROOQ, Muhammad - OZTURK, Levent - ASIF, Muhammad - SIDDIQUE, Kadambot H. M. Zinc nutrition in wheat-based cropping systems. In PLANT AND SOIL. ISSN 0032-079X, 2018, vol. 422, no. 1-2, pp. 283-315., Registrované v: WOS
75. [1.1] REIS, Sara - PAVIA, Ivo - CARVALHO, Ana - MOUTINHO-PEREIRA, Jose - CORREIA, Carlos - LIMA-BRITO, Jose. Seed priming with iron and zinc in bread wheat: effects in germination, mitosis and grain yield. In PROTOPLASMA. ISSN 0033-183X, 2018, vol. 255, no. 4, pp. 1179-1194., Registrované v: WOS
76. [1.1] SABOVLEVIC, Marko S. - WEIDINGER, Marieluise - SABOVLEVIC, Aneta D. - ADLASSNIG, Wolfram - LANG, Ingeborg. Is the Binding Pattern of Zinc(II) Equal in Different Bryophyte Species? In MICROSCOPY AND MICROANALYSIS. ISSN 1431-9276, 2018, vol. 24, no. 1, pp. 69-74., Registrované v: WOS

77. [1.1] SARASWAT, Shweta - RAI, J. P. N. *Aquatic macrophytes mediated remediation of toxic metals from moderately contaminated industrial effluent*. In *INTERNATIONAL JOURNAL OF PHYTOREMEDIATION*. ISSN 1522-6514, 2018, vol. 20, no. 9, pp. 876-884., Registrované v: WOS
78. [1.1] SHELAK, Rahul Mahadev - WAGHUNDE, Rajesh Ramdas - MORITA, Eugene Hayato - HAYASHI, Hidenori. *Plant-Microbe-Metal Interactions: Basics, Recent Advances, and Future Trends*. In *PLANT MICROBIOME: STRESS RESPONSE*. ISSN 2512-1901, 2018, vol. 5, no., pp. 283-305., Registrované v: WOS
79. [1.1] SONG, Mei-Ru - LI, Dong-Yao - NIAN, Fu-Yu - XUE, Jin-Ping - CHEN, Juan-Juan. *Zeolitic imidazolate metal organic framework-8 as an efficient pH-controlled delivery vehicle for zinc phthalocyanine in photodynamic therapy*. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, 2018, vol. 53, no. 4, pp. 2351-2361., Registrované v: WOS
80. [1.1] STURIKOVA, Helena - KRYSTOFOVA, Olga - HUSKA, Dalibor - ADAM, Vojtech. *Zinc, zinc nanoparticles and plants*. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2018, vol. 349, no., pp. 101-110., Registrované v: WOS
81. [1.1] TIRANI, M. Mazaheri - HAGHJOU, M. Madadkar - SULIEMAN, S. - ISMAILI, A. *Comparative Evaluation of Zinc Oxide Effects on Tobacco (Nicotiana tabacum L.) Grown in Different Media*. In *JOURNAL OF AGRICULTURAL SCIENCE AND TECHNOLOGY*. ISSN 1680-7073, 2018, vol. 20, no. 4, pp. 787-802., Registrované v: WOS
82. [1.1] TUFAIL, A. - LI, H. - NAEEM, A. - LI, T. X. *Leaf cell membrane stability-based mechanisms of zinc nutrition in mitigating salinity stress in rice*. In *PLANT BIOLOGY*. ISSN 1435-8603, 2018, vol. 20, no. 2, pp. 338-345., Registrované v: WOS
83. [1.1] UCURUM, Metin - OZDEMIR, Akin - TEKE, Cagatay - SERENCAM, Huseyin - IPEK, Muntaz. *Optimization of Adsorption Parameters for Ultra-Fine Calcite Using a Box-Behnken Experimental Design*. In *OPEN CHEMISTRY*. ISSN 2391-5420, 2018, vol. 16, no. 1, pp. 992-1000., Registrované v: WOS
84. [1.1] UPADHYAYA, H. - DUTTA, B. K. - PANDA, S. K. *Impact of zinc on dehydration and rehydration responses in tea*. In *BIOLOGIA PLANTARUM*. ISSN 0006-3134, 2018, vol. 62, no. 2, pp. 395-399., Registrované v: WOS
85. [1.1] WU, Ping - CUI, Pei-Xin - FANG, Guo-Dong - WANG, Yu - WANG, Shen-Qiang - ZHOU, Dong-Mei - ZHANG, Wei - WANG, Yu-Jun. *Biochar decreased the bioavailability of Zn to rice and wheat grains: Insights from microscopic to macroscopic scales*. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2018, vol. 621, no., pp. 160-167., Registrované v: WOS
86. [1.1] XU, Qiuyun - GAO, Li - PENG, Wenqi - GAO, Bo - XU, Dongyu - SUN, Ke. *Assessment of labile Zn in reservoir riparian soils using DGT, DIFS, and sequential extraction*. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2018, vol. 160, no., pp. 184-190., Registrované v: WOS
87. [1.1] YU, Xiaofen - LUO, Qingchen - HUANG, Kaixun - YANG, Guangxiao - HE, Guangyuan. *Prospecting for Microelement Function and Biosafety Assessment of Transgenic Cereal Plants*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
88. [1.1] ZAKIRULLAH, Muhammad - INNAYAT, Sumayya - JAN, Tariq - ARIF, Muhammad - ALI, Muhammad - ALAM, Mehboob. *The effect of different levels of amino acid and zinc on the quality and quantity of Berseem (Trifolium alexandrinum)*. In *ASIAN JOURNAL OF AGRICULTURE AND BIOLOGY*. ISSN 2307-8553, 2018, vol. 6, no. 3, pp. 379-384., Registrované v: WOS
89. [1.1] ZAMAN, Qamar Uz - ASLAM, Zubair - YASEEN, Muhammad - IHSAN, Muhammad Zahid - KHALIQ, Abdul - FAHAD, Shah - BASHIR, Safder - RAMZANI, P. M. A. - NAEEM, Muhammad. *Zinc biofortification in rice: leveraging agriculture to moderate hidden hunger in developing countries*. In *ARCHIVES OF AGRONOMY AND SOIL SCIENCE*. ISSN 0365-0340, 2018, vol. 64, no. 2, pp. 147-161., Registrované v: WOS
90. [1.1] ZHONG, Yingxin - YANG, Mengtian - CAI, Jian - WANG, Xiao - ZHOU, Qin - CAO, Weixing - DAI, Tingbo - JIANG, Dong. *Nitrogen topdressing timing influences the spatial distribution patterns of protein components and quality traits of flours from different pearling fractions of wheat (Triticum aestivum L.) grains*. In *FIELD CROPS RESEARCH*. ISSN 0378-4290, 2018, vol. 216, no., pp. 120-128., Registrované v: WOS
91. [1.2] BLANCO, Juan A. *Suitability of Totorá (Schoenoplectus californicus (C.A. Mey.) Soják) for its use in constructed Wetlands in Areas Polluted with heavy metals*. In *Sustainability (Switzerland)*, 2018-12-20, 11, 1, pp., Registrované v: SCOPUS
92. [1.2] BLASCO, Begoña - NAVARRO-LEÓN, Eloy - RUIZ, Juan M. *Oxidative Stress in Relation With Micronutrient Deficiency or Toxicity*. In *Plant Micronutrient Use Efficiency: Molecular and Genomic Perspectives in Crop Plants*, 2018-03-27, pp. 181-194., Registrované v: SCOPUS



93. [1.2] CASTRO, Pedro Humberto - LILAY, Grmay H. - ASSUNÇÃO, Ana G.L. Regulation of Micronutrient Homeostasis and Deficiency Response in Plants. In *Plant Micronutrient Use Efficiency: Molecular and Genomic Perspectives in Crop Plants*, 2018-03-27, pp. 1-15., Registrované v: SCOPUS
94. [1.2] CUCHIARA, Cristina Copstein - LARRÉ, Cristina Ferreira - PETERS, José Antonio. The objective of this study was to evaluate the combined effects of copper (Cu) and zinc (Zn) on sweet potato plants based on morphological parameters, mineral profiles, and antioxidant metabolism. In *Iheringia Serie Botanica*. ISSN 00734705, 2017-04-30, 72, 1, pp. 142-149., Registrované v: SCOPUS
95. [1.2] ESFANDIARI, Ezatollah - ABDOLI, Majid - SADEGHZADEH, Behzad - MOUSAVI, Seyed Bahman. Evaluation of Turkish durum wheat (*Triticum turgidum* var. durum) genotypes based on quantitative traits and shoot zinc accumulation under zinc-deficient calcareous soil. In *Iranian Journal of Plant Physiology*. ISSN 22285512, 2018-06-01, 8, 4, pp. 2525-2537., Registrované v: SCOPUS
96. [1.2] GAJIC, Gordana M. - PAVLOVIC, Pavle. The role of vascular plants in the phytoremediation of fly ash deposits. In *Phytoremediation: Methods, Management and Assessment*, 2018-01-01, pp. 151-236., Registrované v: SCOPUS
97. [1.2] GARG, Neera - SINGH, Sandeep. Arbuscular Mycorrhiza *Rhizophagus irregularis* and Silicon Modulate Growth, Proline Biosynthesis and Yield in *Cajanus cajan* L. Millsp. (pigeonpea) Genotypes Under Cadmium and Zinc Stress. In *Journal of Plant Growth Regulation*. ISSN 07217595, 2018-03-01, 37, 1, pp. 46-63., Registrované v: SCOPUS
98. [1.2] HANUMANTHAPPA, D. - VASUDEVAN, S. N. - SHAKUNTALA, N. M. - MUNISWAMY, M. - KISAN, B. - SANGEETA MACHA, I. Role of seed-Zn content on seed longevity of pigeonpea genotypes. In *Indian Journal of Agricultural Research*. ISSN 03678245, 2018-06-01, 52, 3, pp. 250-256., Registrované v: SCOPUS
99. [1.2] JIAO, Xin Tian - XUE, Wei Jie - ZHAO, Yan Ling - ZHANG, Chang Bo - YAN, Lei - LIU, Zhong Qi. Effects of silicon and zinc interaction on the uptake of cadmium in rice seedlings. In *Journal of Agro-Environment Science*. ISSN 16722043, 2018-01-01, 37, 11, pp. 2491-2497., Registrované v: SCOPUS
100. [1.2] MOYNIER, Frédéric - VANCE, Derek - FUJII, Toshiyuki - SAVAGE, Paul. The isotope geochemistry of zinc and copper. In *Non-Traditional Stable Isotopes*, 2017-03-06, 82, pp. 543-600., Registrované v: SCOPUS
101. [1.2] NIKOLIC, Milos V. - MIJALOVIC, Marina Z. - TOMOVIC, Dusan Lj - BUKONJIC, Andriana M. - JEVTIC, Verica V. - RATKOVIC, Zoran R. - TRIFUNOVIC, Srecko R. - RADIC, Gordana P. Synthesis and characterization of zinc(II)-complexes with S-alkyl derivatives of thiosalicylic acid. In *Serbian Journal of Experimental and Clinical Research*. ISSN 18208665, 2018-06-01, 19, 2, pp. 113-117., Registrované v: SCOPUS
102. [1.2] PANDEY, Nalini. Role of plant nutrients in plant growth and physiology. In *Plant Nutrients and Abiotic Stress Tolerance*, 2018-08-20, pp. 51-93., Registrované v: SCOPUS
103. [1.2] RAWAT, Jyoti - SANWAL, Pankaj - SAXENA, Jyoti. Towards the mechanisms of nutrient solubilization and fixation in soil system. In *Role of Rhizospheric Microbes in Soil: Volume 2: Nutrient Management and Crop Improvement*, 2018-06-19, pp. 229-257., Registrované v: SCOPUS
104. [1.2] SAIBI, Walid - BRINI, Faiçal. Superoxide dismutase (SOD) and abiotic stress tolerance in plants: An overview. In *Superoxide Dismutase: Structure, Synthesis and Applications*, 2018-01-01, pp. 101-142., Registrované v: SCOPUS
105. [1.2] SINISHA, Asari Kandi - PUTHUR, Jos Thomas. Comparative Study on the Zinc and Cadmium Tolerance Potential of Twelve Prominent Rice Cultivars. In *Journal of Crop Science and Biotechnology*. ISSN 19759479, 2018-09-01, 21, 3, pp. 201-210., Registrované v: SCOPUS
106. [1.2] SZEPESI, Ágnes - SZOLLOSI, Réka. Mechanism of Proline Biosynthesis and Role of Proline Metabolism Enzymes Under Environmental Stress in Plants. In *Plant Metabolites and Regulation under Environmental Stress*, 2018-03-20, pp. 337-353., Registrované v: SCOPUS
107. [1.2] VASENEV, Ivan - ANDREEVA, Irina - KOSHKIN, Evgeniy - SAMARDŽIĆ, Miljan. Possibilities of rapeseed cultivation as bioenergetic crop under conditions of chemically degraded soils in Russia. In *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*. ISSN 13142704, 2017-01-01, 17, 43, pp. 725-732., Registrované v: SCOPUS
108. [1.2] WAKEEL, Abdul - FAROOQ, Muhammad - BASHIR, Khurram - OZTURK, Levent. Micronutrient Malnutrition and Biofortification: Recent Advances and Future Perspectives. In *Plant Micronutrient Use Efficiency: Molecular and Genomic Perspectives in Crop Plants*, 2018-03-27, pp. 225-243., Registrované v: SCOPUS
109. [1.2] ZHANG, Peng - YANG, Wenjun - DENG, Tenghaobo - CHAO, Yuanqing - WANG, Shizhong - QIU, Rongliang - TANG, Yetao. Stable isotope fractionation of zinc and cadmium in



- soil-plant system: A review. In *Kexue Tongbao/Chinese Science Bulletin*. ISSN 0023074X, 2018-10-01, 63, 28-29, pp. 2944-2953., Registrované v: SCOPUS
110. [1.2] ZHANG, Ya Qin - LEI, Fei Yi - CHEN, Yu - LI, Si Jia - DOU, Ming Ming - MA, Liu Hui - SHI, Feng - CHEN, Xing Fu. Effect of combined fertilization of zinc, boron and molybdenum on agronomic traits and yield of *Angelica dahurica*. In *Journal of Plant Nutrition and Fertilizers*. ISSN 1008505X, 2018-01-01, 24, 3, pp. 769-778., Registrované v: SCOPUS
111. [3.2] Meng, Lu; Sun, Liang; Tan, Longtao. Progress in ZIP transporter gene family in rice. In: *Yichuan* Volume: 40 Issue: 1 Pages: 33-43, Registrované v: BIOSIS Citation Index
112. [3.2] de Oliveira Araújo, Érica; Ferreira Dos Santos, Élcio; Camacho, Marcos Antonio. Boron-zinc interaction in the absorption of micronutrients by cotton. In: *Agronomía Colombiana* Volume: 36 Issue: 1 Pages: 51-57, Registrované v: SciELO Citation Index
- ADCA109 BRODACZEWSKA, Natalia - KOŠŤÁLOVÁ, Zuzana - UHRÍN, Dušan\*\*. (3, 2)D 1H, 13C BIRD, X-HSQC-TOCSY for NMR structure elucidation of mixtures: application to complex carbohydrates. In *Journal of Biomolecular NMR*, 2018, vol. 70, p. 115-122. (2017: 2.534 - IF, Q2 - JCR, 1.371 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents).
- Citácie:
1. [1.1] SONG, Yuefan - WANG, Qiukuan - WANG, Qingjun - HE, Yunhai - REN, Dandan - LIU, Shu - WU, Long. Structural characterization and antitumor effects of fucoidans from brown algae *Kjellmaniella crassifolia* farmed in northern China. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 125-133., Registrované v: WOS
- ADCA110 BROWN, J.L. - KOSSACZKA, Z. - JIANG, B. - BUSSEY, H.A. A mutational analysis of killer toxin resistance in *Saccharomyces cerevisiae* identifies new genes involved in cell wall (1-6)-beta-glucan synthesis. In *Genetics*, 1993, vol. 133, p. 837-849. ISSN 0016-6731.
- Citácie:
1. [1.1] RODRIGUES, Celia F. - HENRIQUES, Mariana. Portrait of Matrix Gene Expression in *Candida glabrata* Biofilms with Stress Induced by Different Drugs. In *GENES*. ISSN 2073-4425, 2018, vol. 9, no. 4, pp., Registrované v: WOS
2. [1.1] SUKEGAWA, Yuko - NEGISHI, Takahiro - KIKUCHI, Yo - ISHII, Keiko - IMANARI, Miyuki - GHANEGOLMOHAMMADI, Farzan - NOGAMI, Satoru - OHYA, Yoshikazu. Genetic dissection of the signaling pathway required for the cell wall integrity checkpoint. In *JOURNAL OF CELL SCIENCE*. ISSN 0021-9533, 2018, vol. 131, no. 13, pp., Registrované v: WOS
3. [3.2] Group Author(s). Uniprot Consortium. P32893. IN: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/P32893>, Registrované v: Data Citation Index
- ADCA111 BRÜLL, L.P. - HEERMA, W. - THOMAS-OATES, J.E. - HAVERKAMP, J. - KOVÁČIK, Vladimír - KOVÁČ, P. Loss of internal 1-6 substituted monosaccharide residues from underivatized and per-O-methylated trisaccharides. In *Journal of the American Society for Mass Spectrometry*, 1997, vol. 8, p. 43-49.
- Citácie:
1. [1.1] AGYEKUM, Isaac - PEPI, Lauren - YU, Yanlei - LI, Junhui - YAN, Lufeng - LINHARDT, Robert J. - CHEN, Shiguo - AMSTER, I. Jonathan. Structural elucidation of fucosylated chondroitin sulfates from sea cucumber using FTICR-MS/MS. In *EUROPEAN JOURNAL OF MASS SPECTROMETRY*. ISSN 1469-0667, 2018, vol. 24, no. 1, pp. 157-167., Registrované v: WOS
2. [1.1] RATH, Cornelia B. - SCHIRMEISTER, Falko - FIGL, Rudolf - SEEBERGER, Peter H. - SCHAEFFER, Christina - KOLARICH, Daniel. Flagellin Glycoproteomics of the Periodontitis Associated Pathogen *Selenomonas sputigena* Reveals Previously Not Described O-glycans and Rhamnose Fragment Rearrangement Occurring on the Glycopeptides. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2018, vol. 17, no. 4, pp. 721-736., Registrované v: WOS
3. [1.1] TANG, Yang - PU, Yi - GAO, Jinshan - HONG, Pengyu - COSTELLO, Catherine E. - LIN, Cheng. De Novo Glycan Sequencing by Electronic Excitation Dissociation and Fixed-Charge Derivatization. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2018, vol. 90, no. 6, pp. 3793-3801., Registrované v: WOS
4. [1.1] TANG, Yang - WEI, Juan - COSTELLO, Catherine E. - LIN, Cheng. Characterization of Isomeric Glycans by Reversed Phase Liquid Chromatography-Electronic Excitation Dissociation Tandem Mass Spectrometry. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2018, vol. 29, no. 6, pp. 1295-1307., Registrované v: WOS
- ADCA112 BRÜLL, L.P. - KOVÁČIK, Vladimír - THOMAS-OATES, J.E. - HEERMA, W. - HAVERKAMP, J. Sodium-cationized oligosaccharides do not appear to undergo "internal residue loss" rearrangement processes on tandem mass spectrometry. In *Rapid Communications in Mass Spectrometry*, 1998, vol. 12, p. 1520-1532.
- Citácie:

1. [1.1] RATH, Cornelia B. - SCHIRMEISTER, Falko - FIGL, Rudolf - SEEBERGER, Peter H. - SCHAEFFER, Christina - KOLARICH, Daniel. Flagellin Glycoproteomics of the Periodontitis Associated Pathogen *Selenomonas sputigena* Reveals Previously Not Described O-glycans and Rhamnose Fragment Rearrangement Occurring on the Glycopeptides. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2018, vol. 17, no. 4, pp. 721-736., Registrované v: WOS
2. [1.1] TANG, Yang - PU, Yi - GAO, Jinshan - HONG, Pengyu - COSTELLO, Catherine E. - LIN, Cheng. De Novo Glycan Sequencing by Electronic Excitation Dissociation and Fixed-Charge Derivatization. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2018, vol. 90, no. 6, pp. 3793-3801., Registrované v: WOS
3. [1.1] TANG, Yang - WEI, Juan - COSTELLO, Catherine E. - LIN, Cheng. Characterization of Isomeric Glycans by Reversed Phase Liquid Chromatography-Electronic Excitation Dissociation Tandem Mass Spectrometry. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2018, vol. 29, no. 6, pp. 1295-1307., Registrované v: WOS
- ADCA113 BUBENČÍKOVÁ, Táňa - CHOLUJOVÁ, Dana - MESSINGEROVÁ, Lucia - MISLOVIČOVÁ, Danica - ŠERES, Mário - BREIER, Albert - SULOVÁ, Zdena. Detection of Glycomic alterations Induced by Overexpression of P-glycoprotein on the Surfaces of L1210 Cells Using Sialic Acid Binding Lectins. In *International Journal of Molecular Science*, 2012, vol. 13, no. 11, p. 15177-15192. (2011: 2.598 - IF, 0.781 - SJR). ISSN 1422-0067.
- Citácie:
1. [1.1] TAKIMOTO-SHIMOMURA, Tomoko - NAGOSHI, Hisao - MAEGAWA, Saori - FUJIBAYASHI, Yuto - TSUKAMOTO, Taku - MATSUMURA-KIMOTO, Yayoi - MIZUNO, Yoshimi - CHINEN, Yoshiaki - MIZUTANI, Shinsuke - SHIMURA, Yuji - HORIIKE, Shigeo - TANIWAKI, Masafumi - KOBAYASHI, Tsutomu - KURODA, Junya. Establishment and Characteristics of a Novel Mantle Cell Lymphoma-derived Cell Line and a Bendamustine-resistant Subline. In *CANCER GENOMICS & PROTEOMICS*. ISSN 1109-6535, 2018, vol. 15, no. 3, pp. 213-223., Registrované v: WOS
2. [1.1] ZHANG, Xiaoqing - NIE, Huan - WHITED, Joshua - WANG, Dan - LI, Yu - SUN, Xue-Long. Recent approaches for directly profiling cell surface sialoform. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 12, pp. 910-924., Registrované v: WOS
- ADCA114 BUCOVÁ, Mária - SUCHÁNKOVÁ, Magda - DZURILLA, Martin - VRLÍK, Mojmír - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - URBAN, Štefan - HORNÁKOVÁ, Edita - ŠELIGOVÁ, Marianna - DURMANOVÁ, Vladimíra - PENZ, Peter - JAVOR, Juraj - PAULOVÍČOVÁ, Ema. Inflammatory marker sTREM-1 reflects the clinical stage and respiratory tract obstruction in allergic asthma bronchiale patients and correlates with number of neutrophils. In *Mediators of Inflammation*, 2012, article ID 628754, 8 p. (2011: 3.263 - IF, 1.177 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0962-9351.
- Citácie:
1. [1.1] KUEMMEL, Andreas - ALFLEN, Astrid - SCHMIDT, Lars Henning - SEBASTIAN, Martin - WIEWRODT, Rainer - SCHULZE, Arik Bernard - BUHL, Roland - RADSACK, Markus. Soluble Triggering Receptor Expressed on Myeloid Cells 1 in lung cancer. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.2] FRANCIS, Abbie - BOSIO, Erika - STONE, Shelley F. - FATOVICH, Daniel M. - ARENDTS, Glenn - MACDONALD, Stephen P.J. - BURROWS, Sally - BROWN, Simon G.A. Markers involved in innate immunity and neutrophil activation are elevated during acute human anaphylaxis: Validation of a microarray study. In *Journal of Innate Immunity*. ISSN 1662811X, 2018-12-01, 11, 1, pp. 63-73., Registrované v: SCOPUS
3. [1.2] WU, Dawei - MUELLER, Sarina K. - NOCERA, Angela L. - FINN, Kristen - LIBERMANN, Towia A. - BLEIER, Benjamin S. TREM-1 Neutrophil Activation Pathway Is Suppressed in Eosinophilic Nasal Polyps. In *American Journal of Rhinology and Allergy*. ISSN 19458924, 2018-09-01, 32, 5, pp. 359-368., Registrované v: SCOPUS
- ADCA115 BUČEKOVÁ, Marcela - VALACHOVÁ, Ivana - KOHÚTOVÁ, Lenka - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Honeybee glucose oxidase-its expression in honeybee workers and comparative analyses of its content and H2O2-mediated antibacterial activity in natural honeys. In *Naturwissenschaften*, 2014, vol. 101, no. 8, p. 661-670. (2013: 1.971 - IF, 0.920 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0028-1042.
- Citácie:
1. [1.1] HASSAN, Yousef I. - LAHAYE, Ludovic - GONG, Max M. - PENG, Jian - GONG, Joshua - LIU, Song - GAY, Cyril G. - YANG, Chengbo. Innovative drugs, chemicals, and enzymes within the animal production chain. In *VETERINARY RESEARCH*. ISSN 0928-4249, 2018, vol. 49, no., pp., Registrované v: WOS
2. [1.1] JONES, Ben - SHIPLEY, Emily - ARNOLD, Kathryn E. Social immunity in honeybees Density dependence, diet, and body mass trade-offs. In *ECOLOGY AND EVOLUTION*.

- ISSN 2045-7758, 2018, vol. 8, no. 10, pp. 4852-4859., Registrované v: WOS
3. [1.1] KIM, Linda - BRUDZYNSKI, Katrina. Identification of menaquinones (vitamin K2 homologues) as novel constituents of honey. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 249, no., pp. 184-192., Registrované v: WOS
4. [1.1] POLI, J.P. - GUINOISEAU, E. - LUCIANI, A. - YANG, Y. - BATTESTI, M.J. - PAOLINI, J. - COSTA, J. - QUILICHINI, Y. - BERTI, L. - LORENZI, V. Key role of hydrogen peroxide in antimicrobial activity of spring, Honeydew maquis and chestnut grove Corsican honeys on *Pseudomonas aeruginosa* DNA. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN 0266-8254, 2018, vol. 66, no. 5, pp. 427-433., Registrované v: WOS
5. [1.1] SAWAZAKI, Takuto - NAKAJIMA, Yukari - URAI, Tamae - MUKAI, Kanae - OHTA, Megumi - KATO, Ikuko - KAWAGUCHI, Azusa - KINOSHITA, Yui - KUMAGAI, Yuri - SAKASHITA, Ayaka - YAMAZAKI, Asuka - NAKATANI, Toshio. Efficacy of Honeydew Honey and Blossom Honey on Full-thickness Wound Healing in Mice. In *WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE*. ISSN 1044-7946, 2018, vol. 30, no. 7, pp. 197-204., Registrované v: WOS
6. [1.1] TRAYER, Brenna E. - FEAZEL-ORR, Haley K. - CATALFAMO, Katelyn M. - BREWSTER, Carlyle C. - FELL, Richard D. Seasonal Effects and the Impact of In-Hive Pesticide Treatments on Parasite, Pathogens, and Health of Honey Bees. In *JOURNAL OF ECONOMIC ENTOMOLOGY*. ISSN 0022-0493, 2018, vol. 111, no. 2, pp. 517-527., Registrované v: WOS
- ADCA116 BUČEKOVÁ, Marcela - SOJKA, Martin - VALACHOVÁ, Ivana - MARTINOTTI, S. - RANZATO, E. - SZEP, Z. - MAJTAN, V. - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Bee-derived antibacterial peptide, defensin-1, promotes wound re-epithelialisation in vitro and in vivo. In *Scientific Reports*, 2017, vol. 7, no. 1, 7340. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322.
- Citácie:
1. [1.1] PAJOR, M. - WOROBO, R.W. - MILEWSKI, S. - SZWEDA, P. The Antimicrobial Potential of Bacteria Isolated from Honey Samples Produced in the Apiaries Located in Pomeranian Voivodeship in Northern Poland. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*. SEP 2018, vol. 15, no. 9., Registrované v: WOS
- ADCA117 BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - LACÍK, Igor - HLOUŠKOVÁ, Gabriela - GEMEINER, Peter - PĀTOPRSTÝ, Vladimír - BRYGIN, Michal. Immobilization of a whole-cell epoxide-hydrolyzing biocatalyst in sodium alginate-cellulose sulfate-poly(methylene-co-guanidine) capsules using a controlled encapsulation process. In *Enzyme and Microbial Technology*, 2005, vol. 36, p. 118-126. ISSN 0141-0229.
- Citácie:
1. [1.1] DONG, S. - LIU, X. - CUI, G.Z. - CUI, Q. - WANG, X.Q. - FENG, Y.G. Structural insight into the catalytic mechanism of a cis-epoxysuccinate hydrolase producing enantiomerically pure D(-)-tartaric acid. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, AUG 7 2018, vol. 54, no. 61, p. 8482-8485., Registrované v: WOS
2. [1.1] KECSKEMETI, A. - GASPARI, A. Particle-based immobilized enzymatic reactors in microfluidic chips. In *TALANTA*. ISSN 0039-9140, APR 1 2018, vol. 180, p. 211-228., Registrované v: WOS
3. [1.1] WANG, Y.G. - WANG, X.J. - XIE, Y.J. - ZHANG, K. Functional nanomaterials through esterification of cellulose: a review of chemistry and application. In *CELLULOSE*. ISSN 0969-0239, JUL 2018, vol. 25, no. 7, p. 3703-3731., Registrované v: WOS
- ADCA118 BUČKO, Marek - GEMEINER, Peter - SCHENKMAYEROVÁ, Andrea - KRAJČOVIČ, Tomáš - RUDROFF, Florian - MIHOVILOVIČ, Marko. Baeyer-Villiger oxidations: biotechnological approach. In *Applied Microbiology and Biotechnology*, 2016, vol. 100, p. 6585-6599. (2015: 3.376 - IF, Q2 - JCR, 1.254 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0175-7598.
- Citácie:
1. [1.1] BALKE, Kathleen - BEIER, Andy - BORNSCHEUER, Uwe T. Hot spots for the protein engineering of Baeyer-Villiger monooxygenases. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2018, vol. 36, no. 1, pp. 247-263., Registrované v: WOS
2. [1.1] CHA, Hee-Jeong - SEO, Eun-Ji - SONG, Ji-Won - JO, Hye-Jin - KUMAR, Akula Ravi - PARK, Jin-Byung. Simultaneous Enzyme/Whole-Cell Biotransformation of C18 Ricinoleic Acid into (R)-3-Hydroxynonanoic Acid, 9-Hydroxynonanoic Acid, and 1,9-Nonanedioic Acid. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2018, vol. 360, no. 4, pp. 696-703., Registrované v: WOS
3. [1.1] DE GONZALO, Gonzalo - FRANCONETTI, Antonio. Enantioselective sulfoxidations employing the thermostable cyclohexanone monooxygenase from *Thermocrisum municipale*. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2018, vol. 113, no., pp. 24-28., Registrované v: WOS



4. [1.1] DONG, JiaJia - FERNANDEZ-FUEYO, Elena - HOLLMANN, Frank - PAUL, Caroline E. - PESIC, Milja - SCHMIDT, Sandy - WANG, Yonghua - YOUNES, Sabry - ZHANG, Wuyuan. *Biocatalytic Oxidation Reactions: A Chemist's Perspective*. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 30, pp. 9238-9261., Registrované v: WOS
  5. [1.1] FORDWOUR, Osei Boakye - WOLTERS, Kirsten R. *Active site variants provide insight into the nature of conformational changes that accompany the cyclohexanone monooxygenase catalytic cycle*. In *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*. ISSN 0003-9861, 2018, vol. 654, no., pp. 85-96., Registrované v: WOS
  6. [1.1] GONCALVES, Caroline C. S. - DA FONSECA, Francine S. A. *Enzyme-Catalyzed Redox Reactions*. In *REVISTA VIRTUAL DE QUIMICA*. ISSN 1984-6835, 2018, vol. 10, no. 4, pp. 778-797., Registrované v: WOS
  7. [1.1] GRAN-SCHEUCH, Alejandro - TRAJKOVIC, Milos - PARRA, Loreto - FRAAIJE, Marco W. *Mining the Genome of Streptomyces leeuwenhoekii: Two New Type I Baeyer-Villiger Monooxygenases From Atacama Desert*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
  8. [1.1] HEINE, Thomas - VAN BERKEL, Willem J. H. - GASSNER, George - VAN PEE, Karl-Heinz - TISCHLER, Dirk. *Two-Component FAD-Dependent Monooxygenases: Current Knowledge and Biotechnological Opportunities*. In *BIOLOGY-BASEL*, 2018, vol. 7, no. 3, pp., Registrované v: WOS
  9. [1.1] HOLLMANN, Frank - KARA, Selin - OPPERMAN, Diederik J. - WANG, Yonghua. *Biocatalytic synthesis of lactones and lactams*. In *CHEMISTRY-AN ASIAN JOURNAL*. ISSN 1861-4728, 2018, vol. 13, no. 23, pp. 3601-3610., Registrované v: WOS
  10. [1.1] HORN, Alexander - KAZMAIER, Uli. *Purified mCPBA, a Useful Reagent for the Oxidation of Aldehydes*. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 20-21, pp. 2531-2536., Registrované v: WOS
  11. [1.1] LATHAM, Jonathan - BRANDENBURGER, Eileen - SHEPHERD, Sarah A. - MENON, Binuraj R. K. - MICKLEFIELD, Jason. *Development of Halogenase Enzymes for Use in Synthesis*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 1, pp. 232-269., Registrované v: WOS
  12. [1.1] MILLER, Anne-Frances - PARK, Jonathan T. - FERGUSON, Kyle L. - PITSAWONG, Warintra - BOMMARIUS, Andreas S. *Informing Efforts to Develop Nitroreductase for Amine Production*. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 2, pp., Registrované v: WOS
  13. [1.1] MORRILL, Charlotte - JENSEN, Chantel - JUST-BARINGO, Xavier - GROGAN, Gideon - TURNER, Nicholas J. - PROCTER, David J. *Biocatalytic Conversion of Cyclic Ketones Bearing Quaternary Stereocenters into Lactones in an Enantioselective Radical Approach to Medium-Sized Carbocycles*. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 14, pp. 3692-3696., Registrované v: WOS
  14. [1.1] ROMERO, Elvira - CASTELLANOS, J. Ruben Gomez - GADDA, Giovanni - FRAAIJE, Marco W. - MATTEVI, Andrea. *Same Substrate, Many Reactions: Oxygen Activation in Flavoenzymes*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 4, pp. 1742-1769., Registrované v: WOS
  15. [1.1] VALENCIA, Daniela - GUILLEN, Marina - FURST, Maximilian J. L. J. - LOPEZ-SANTIN, Josep - ALVARO, Gregorio. *An immobilized and highly stabilized self-sufficient monooxygenase as biocatalyst for oxidative biotransformations*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2018, vol. 93, no. 4, pp. 985-993., Registrované v: WOS
  16. [1.1] VELASCO-LOZANO, Susana - LOPEZ-GALLEGO, Fernando. *Wiring step-wise reactions with immobilized multi-enzyme systems*. In *BIOCATALYSIS AND BIOTRANSFORMATION*. ISSN 1024-2422, 2018, vol. 36, no. 3, pp. 184-194., Registrované v: WOS
  17. [1.1] WOO, Ji-Min - JEON, Eun-Yeong - SEO, Eun-Ji - SEO, Joo-Hyun - LEE, Dong-Yup - YEON, Young Joo - PARK, Jin-Byung. *Improving catalytic activity of the Baeyer-Villiger monooxygenase-based Escherichia coli biocatalysts for the overproduction of (Z)-11-(heptanoyloxy) undec-9-enoic acid from ricinoleic acid*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
  18. [1.2] YEON, Young Joo - PARK, Jin Byung. *Regiospecific Conversion of Lipids and Fatty Acids through Enzymatic Cascade Reactions*. In *Lipid Modification by Enzymes and Engineered Microbes*, 2018-03-20, pp. 139-155., Registrované v: SCOPUS
- ADCA119 BUČKOVÁ, A. - EISENREICHOVÁ, E. - HALADOVÁ, M. - UHRÍN, D. - TOMKO, J. *A new acetylated kaempferol derivative from Lilium candidum L.* In *Phytochemistry*, 1988, vol. 27, p. 1914-1915. ISSN 0031-9422.

Citácie:

1. [1.2] ILKEI, Viktor - HAZAI, László - ANTUS, Sándor - BÖLCSKEI, Hedvig. *Flavonoid Alkaloids: Isolation, Bioactivity, and Synthesis. In Studies in Natural Products Chemistry. ISSN 15725995, 2018-01-01, 56, pp. 247-285., Registrované v: SCOPUS*
- ADCA120 BUČKOVÁ, M. - LABUDA, J. - ŠANDULA, Jozef - KRIŽKOVÁ, L. - ŠTĚPÁNEK, I. - ĐURAČKOVÁ, Z. Detection of damage to DNA and antioxidative activity of yeast polysaccharides at the DNA-modified screen-printed electrode. In *Talanta*, 2002, vol. 56, p. 939-947.
- Citácie:
1. [1.1] APAK, Resat - CEKIC, Sema Demirci - UZER, Aysem - CELIK, Saliha Esin - BENER, Mustafa - BEKDESER, Burcu - CAN, Ziya - SAGLAM, Sener - ONEM, Ayse Nur - ERCAG, Erol. *Novel Spectroscopic and Electrochemical Sensors and Nanoprobes for the Characterization of Food and Biological Antioxidants. In SENSORS. ISSN 1424-8220, 2018, vol. 18, no. 1, pp., Registrované v: WOS*
2. [1.1] MOUSAVISANI, Seyedeh Zeinab - RAOOF, Jahan Bakhsh - OJANI, Reza - BAGHERYAN, Zahra. *An impedimetric biosensor for DNA damage detection and study of the protective effect of deferroxamine against DNA damage. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2018, vol. 122, no., pp. 142-148., Registrované v: WOS*
- ADCA121 BUCHTA, V. - SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - ALT, S. - JÍLEK, P. *Zygosaccharomyces bailii* a potential spoiler of mustard. In *Food microbiology*, 1996, vol. 13, p. 133-135. ISSN 0740-0020.
- Citácie:
1. [1.2] MOCANU, Gabriel Dănuț - BOTEZ, Elisabeta. *Microbial contaminants of acidified specialty products. In Microbial Contamination of Food Products, 2018-01-01, pp. 161-175., Registrované v: SCOPUS*
- ADCA122 BUJDÁKOVÁ, H. - PAULOVIČOVÁ, Ema - BORECKÁ-MELKUSOVÁ, S. - GAŠPERÍK, Juraj - KUCHÁRIKOVÁ, S. - KOLECKÁ, A. - LELL, C. - JENSEN, D.B. - WURZNER, R. - CHORVÁT, D. Jr. - PICHOVÁ, I. Antibody response to the 45 kDa *Candida albicans* antigen in an animal model and potential role of the antigen in adherence. In *Journal of Medical Microbiology*, 2008, vol. 57, p. 1466-1472. (2008 - Current Contents). ISSN 0022-2615.
- Citácie:
1. [1.1] LI, Jiayan - CHEN, Daiwen - YU, Bing - HE, Jun - ZHENG, Ping - MAO, Xiangbing - YU, Jie - LUO, Junqiu - TIAN, Gang - HUANG, Zhiqing - LUO, Yuheng. *Fungi in Gastrointestinal Tracts of Human and Mice: from Community to Functions. In MICROBIAL ECOLOGY. ISSN 0095-3628, 2018, vol. 75, no. 4, pp. 821-829., Registrované v: WOS*
2. [1.1] MIKAMO, Hiroshige - YAMAGISHI, Yuka - SUGIYAMA, Hiroyuki - SADAKATA, Hisato - MIYAZAKI, Shun - SANO, Takako - TOMITA, Tsutomu. *High glucose-mediated overexpression of ICAM-1 in human vaginal epithelial cells increases adhesion of Candida albicans. In JOURNAL OF OBSTETRICS AND GYNAECOLOGY. ISSN 0144-3615, 2018, vol. 38, no. 2, pp. 226-230., Registrované v: WOS*
- ADCA123 BYSTRICKÝ, Slavomír - MEDOVARSKÁ, Izabela - MACHOVÁ, Eva. Separation of different types of monosaccharides by polyacrylamide column chromatography. In *Zeitschrift für Naturforschung Section B*, 2011, vol. 66, p. 295-298. (2010: 0.816 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0932-0776.
- Citácie:
1. [1.1] SUSHYTSKYI, L. - BLEHA, R. - SINICA, A. - CAPEK, P. - COPIKOVA, J. - KASTANEK, P. *WATER-SOLUBLE POLYSACCHARIDES ISOLATED FROM BIOMASS OF CHLOROPHYLL-DEFICIENT MICROALGA Chlorella vulgaris G11. In PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2018, vol., no., pp. 385-389., Registrované v: WOS*
- ADCA124 BYSTRICKÝ, Slavomír - MALOVÍKOVÁ, Anna - STICZAY, T. Interaction of alginates and pectins with cationic polypeptides. In *Carbohydrate Polymers*, 1990, vol. 13, p. 283-294. ISSN 0144-8617.
- Citácie:
1. [1.1] GARHY, Doaa M. A. - ISMAIL, Soha - IBRAHIM, Howida K. - GHORAB, Mahmoud M. *Buccoadhesive gel of carvedilol nanoparticles for enhanced dissolution and bioavailability. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY. ISSN 1773-2247, 2018, vol. 47, no., pp. 151-158., Registrované v: WOS*
2. [1.1] ZHENG, Haotian. *Polymers for structure design of dairy foods. In Polymers for Food Applications, 2018-01-01, pp. 509-528., Registrované v: SCOPUS*
- ADCA125 CABIB, E. - FARKAŠ, Vladimír - KOSÍK, Ondřej - BLANCO, N. - ARROYO, J. - MCPIE, P. Assembly of the yeast cell wall: Crh1p and Crh2p act as transglycosylases in vivo and in vitro. In *Journal of Biological Chemistry*, 2008, vol. 283, p. 29859-29872. (2007: 5.581 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0021-9258.
- Citácie:

1. [1.1] LI, Jizhou - MOUYNA, Isabelle - HENRY, Christine - MOYRAND, Frederique - MALOSSE, Christian - CHAMOT-ROOKE, Julia - JANBON, Guilhem - LATGE, Jean-Paul - FONTAINE, Thierry. Glycosylphosphatidylinositol Anchors from Galactomannan and GPI-Anchored Protein Are Synthesized by Distinct Pathways in *Aspergillus fumigatus*. In *JOURNAL OF FUNGI*, 2018, vol. 4, no. 1, pp., Registrované v: WOS
- ADCA126 CAPEK, Peter - HLAVOŇOVÁ, E. - MATULOVÁ, Mária - MISLOVIČOVÁ, Danica - RUŽIČKA, J. - KOUTNÝ, M. - KEPRDOVÁ, L. Isolation and characterization of an extracellular glucan produced by *Leuconostoc garlicum* PR. In *Carbohydrate Polymers*, 2011, vol. 83, p. 88-93. (2010: 3.463 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] BARUAH, Rwivoo - DEKA, Barsha - KASHYAP, Niharika - GOYAL, Arun. Dextran Utilization During Its Synthesis by *Weissella cibaria* RBA12 Can Be Overcome by Fed-Batch Fermentation in a Bioreactor. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 1-11., Registrované v: WOS
2. [1.1] HASHEM, Amal M. - GAMAL, Amira A. - MANSOUR, Nahla M. - SALAMA, Bassem M. - HASSANEIN, Naziha M. - AWAD, Ghada E. A. - ESAWY, Mona A. Optimization of *Enterococcus faecalis* Esawy KR758759 dextranase and evaluation of some dextran bioactivities. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY*. ISSN 1878-8181, 2018, vol. 15, no., pp. 348-358., Registrované v: WOS
3. [1.1] JAYAMANO HAR, Jabastin - DEVI, Palanisamy Bruntha - KAVITAKE, Digambar - RAJENDRAN, Suresh - PRIYADARISINI, Venkatesan Brindha - SHETTY, Prathap Kumar Halady. Characterization of alpha-D-glucan produced by a probiont *Enterococcus hirae* KX577639 from feces of south Indian Irula tribals. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 1667-1675., Registrované v: WOS
4. [1.1] YAN, Minghui - WANG, Bing-hua - XU, Xiaofen - CHANG, Peng - HANG, Feng - WU, Zhengjun - YOU, Chunping - LIU, Zhenmin. Molecular and Functional Study of a Branching Sucrase-Like Glucanase Reveals an Evolutionary Intermediate between Two Subfamilies of the GH70 Enzymes. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 9, pp., Registrované v: WOS
- ADCA127 CAPEK, Peter. A water soluble glucomannan isolated from an immunomodulatory active polysaccharide of *Salvia officinalis* L. In *Carbohydrate Polymers*, 2009, vol. 75, p. 356-359. (2008: 2.644 - IF). ISSN 0144-8617.
- Citácie:
1. [1.1] LIU, Xiao - WEI, Weiqi - WU, Shubin - LEI, Ming - LIU, Ying. A promptly approach from monosaccharides of biomass to oligosaccharides via sharp-quenching thermo conversion (SQTC). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 189, no., pp. 204-209., Registrované v: WOS
2. [1.1] SHI, Xiao-Dan - YIN, Jun-Yi - HUANG, Xiao-Jun - QUE, Zhi-Qiang - NIE, Shao-Ping. Structural and conformational characterization of linear O-acetyl-glucomannan purified from gel of *Aloe barbadensis* Miller. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 2373-2380., Registrované v: WOS
- ADCA128 CAPEK, Peter - ALFOLDI, Juraj - LIŠKOVÁ, Desana. An acetylated galactoglucomannan from *Picea abies* L. Karst. In *Carbohydrate Research*, 2002, vol. 337, p. 1033-1037. (2001: 1.349 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] BAATH, Jenny Arnling - MARTINEZ-ABAD, Antonio - BERGLUND, Jennie - LARSBRINK, Johan - VILAPLANA, Francisco - OLSSON, Lisbeth. Mannanase hydrolysis of spruce galactoglucomannan focusing on the influence of acetylation on enzymatic mannan degradation. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] CHEN, Jing - ROBB, Craig S. - UNFRIED, Frank - KAPPELMANN, Lennart - MARKERT, Stephanie - SONG, Tao - HARDER, Jens - AVCI, Burak - BECHER, Doerte - XIE, Ping - AMANN, Rudolf I. - HEHEMANN, Jan-Hendrik - SCHWEDER, Thomas - TEELING, Hanno. Alpha- and beta-mannan utilization by marine Bacteroidetes. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2018, vol. 20, no. 11, pp. 4127-4140., Registrované v: WOS
3. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In *POLYMER GELS: SCIENCE AND FUNDAMENTALS*. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
4. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Structural studies of water-extractable pectic polysaccharides and arabinogalactan proteins from *Picea*



- abies greenery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 207-217., Registrované v: WOS*
- ADCA129 CAPEK, Peter - DRÁBIK, Milan - TURJAN, Jozef. Characterization of starch and its mono and hybrid derivatives by thermal analysis and FT-IR spectroscopy. In *Journal of Thermal Analysis and Calorimetry*, 2010, vol. 99, no. 2, p. 667-673. (2009: 1.587 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1388-6150.
- Citácie:
- [1.1] ARAUJO, Antonio - GALVAO, Andressa - SILVA FILHO, Carlos - MENDES, Francisco - OLIVEIRA, Marilia - BARBOSA, Francisco - SOUSA FILHO, Men - BASTOS, Maria. Okra mucilage and corn starch bio-based film to be applied in food. In *POLYMER TESTING. ISSN 0142-9418, 2018, vol. 71, no., pp. 352-361., Registrované v: WOS*
  - [1.1] BUJDAKOVA, H. - BUJDAKOVA, V. - MAJEKOVA-KOSCOVA, H. - GAALOVA, B. - BIZOVSKA, V. - BOHAC, P. - BUJDAK, J. Antimicrobial activity of organoclays based on quaternary alkylammonium and alkylphosphonium surfactants and montmorillonite. In *APPLIED CLAY SCIENCE. ISSN 0169-1317, 2018, vol. 158, no., pp. 21-28., Registrované v: WOS*
  - [1.1] KACZMARSKA, Karolina - GRABOWSKA, Beata - SPYCHAJ, Tadeusz - ZDANOWICZ, Magdalena - SITARZ, Maciej - BOBROWSKI, Artur - CUKROWICZ, Sylwia. Effect of microwave treatment on structure of binders based on sodium carboxymethyl starch: FT-IR, FT-Raman and XRD investigations. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2018, vol. 199, no., pp. 387-393., Registrované v: WOS*
- ADCA130 CAPEK, Peter - HRIBALOVA, V. - ŠVANDOVÁ, E. - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta - MASÁROVÁ, Jana. Characterization of immunomodulatory polysaccharides from *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2003, vol. 33, p. 113-119. ISSN 0141-8130.
- Citácie:
- [1.1] BEZERRA, Iglesias de Lacerda - CORDEIRO CAILLOT, Adriana Rute - GUSMAO FERREIRA PALHARES, Lais Cristina - SANTANA-FILHO, Arquimedes Paixao - CHAVANTE, Suely Ferreira - SASSAKI, Guilherme Lanzi. Structural characterization of polysaccharides from Cabernet Franc, Cabernet Sauvignon and Sauvignon Blanc wines: Anti-inflammatory activity in LPS stimulated RAW 264.7 cells. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 186, no., pp. 91-99., Registrované v: WOS*
  - [1.1] GERICKE, Sebastian - LUEBKEN, Tilo - WOLF, Diana - KAISER, Martin - HANNIG, Christian - SPEER, Karl. Identification of New Compounds from Sage Flowers (*Salvia officinalis* L.) as Markers for Quality Control and the Influence of the Manufacturing Technology on the Chemical Composition and Antibacterial Activity of Sage Flower Extracts. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 8, pp. 1843-1853., Registrované v: WOS*
- ADCA131 CAPEK, Peter - KUBAČKOVÁ, M. - ALFOLDI, Juraj - BILISICS, Ladislav - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela. Galactoglucomannan from the secondary cell wall of *Picea abies* L. Karst. In *Carbohydrate Research*, 2000, vol. 329, p. 635-645. (1999: 1.252 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] DOMINGUES, Mariane Noronha - MOREIRA SOUZA, Flavio Henrique - VIEIRA, Plinio Salmazo - BUENO DE MORAIS, Mariana Abrahao - ZANPHORLIN, Leticia Maria - DOS SANTOS, Camila Ramos - SIQUEIRA PIROLLA, Renan Augusto - HONORATO, Rodrigo Vargas - LOPES DE OLIVEIRA, Paulo Sergio - GOZZO, Fabio Cesar - MURAKAMI, Mario Tyago. Structural basis of exo--mannanase activity in the GH2 family. In *JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 35, pp. 13636-13649., Registrované v: WOS*
  - [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS*
  - [1.1] TENG, Po-Yun - KIM, Woo Kyun. Review: Roles of Prebiotics in Intestinal Ecosystem of Broilers. In *FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2018, vol. 5, no., pp., Registrované v: WOS*
- ADCA132 CAPEK, Peter - MACHOVÁ, Eva - TURJAN, Jozef. Scavenging, antioxidant activities of immunomodulating polysaccharides isolated from *Salvia officinalis* L. In *International Journal of Biological Macromolecules*, 2009, vol. 44, p. 75-80. (2008: 1.868 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0141-8130.
- Citácie:
- [1.1] PATEL, Manish Kumar - TANNA, Bhakti - MISHRA, Avinash - JHA, Bhavanath. Physicochemical characterization, antioxidant and anti-proliferative activities of a polysaccharide extracted from psyllium (*P. ovata*) leaves. In *INTERNATIONAL JOURNAL OF BIOLOGICAL*



- MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 976-987., Registrované v: WOS
2. [1.1] WANG, Bingyue - CAI, Tiange - LIU, Qian - WHITNEY, John Cameron Cole - DU, Manling - MA, Qianqian - ZHANG, Ronghua - YANG, Li - COLE, Susan P. C. - CAI, Yu. Preparation and evaluation of spirulina polysaccharide nanoemulsions. In INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE. ISSN 1107-3756, 2018, vol. 42, no. 3, pp. 1273-1282., Registrované v: WOS
- ADCA133 CAPEK, Peter - MATULOVÁ, Mária - COMBOURIEU, B. The extracellular proteoglycan produced by *Rhodella grisea*. In International Journal of Biological Macromolecules, 2008, vol. 43, p. 390-393. (2007: 1.578 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] GAIGNARD, Clement - MACAO, Vanessa - GARDARIN, Christine - RIHOUEY, Christophe - PICTON, Luc - MICHAUD, Philippe - LAROCHE, Celine. The red microalga *Flintiella sanguinaria* as a new exopolysaccharide producer. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2018, vol. 30, no. 5, pp. 2803-2814., Registrované v: WOS
2. [1.1] GANESAN, E. K. - WEST, John A. - NECCHI JR, Orlando. A catalogue and bibliography of non-marine (freshwater and estuarine Rhodophyta (red algae) of India. In PHYTOTAXA. ISSN 1179-3155, 2018, vol. 364, no. 1, pp. 1-48., Registrované v: WOS
- ADCA134 CAPEK, Peter - PAULOVÍČOVÁ, Ema - MATULOVÁ, Mária - MISLOVÍČOVÁ, Danica - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Coffea arabica instant coffee- Chemical view and immunomodulating properties. In Carbohydrate Polymers, 2014, vol. 103, p. 418-426. (2013: 3.916 - IF, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] AL REEF, Tatiana - GHANEM, Esther. Caffeine: Well-known as psychotropic substance, but little as immunomodulator. In IMMUNOBIOLOGY. ISSN 0171-2985, 2018, vol. 223, no. 12, pp. 818-825., Registrované v: WOS
2. [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - CEPEDA, Marcio R. - LOPES, Guido R. - TEIXEIRA-COELHO, Maria - MADUREIRA, Pedro - NUNES, Fernando M. - VILANOVA, Manuel - COIMBRA, Manuel A. Structural polymeric features that contribute to in vitro immunostimulatory activity of instant coffee. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 242, no., pp. 548-554., Registrované v: WOS
3. [1.1] VILLALON-LOPEZ, Nayelli - SERRANO-CONTRERAS, Jose I. - TELLEZ-MEDINA, Dario I. - GERARDO ZEPEDA, L. An H-1 NMR-based metabolomic approach to compare the chemical profiling of retail samples of ground roasted and instant coffees. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 106, no., pp. 263-270., Registrované v: WOS
- ADCA135 CAPEK, Peter - ŠUTOVSKÁ, Martina - KOCMÁLOVÁ, Michaela - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Chemical and pharmacological profiles of Echinacea complex. In International Journal of Biological Macromolecules, 2015, vol. 79, p. 388-391. (2014: 2.858 - IF, Q2 - JCR, 0.861 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] YANG, Guang - LI, Keke - LIU, Cui - PENG, Peipei - BAI, Mei - SUN, Jiaqi - LI, Qingling - YANG, Zhuohong - YANG, Yuesheng - WU, Hong. A Comparison of the Immunostimulatory Effects of Polysaccharides from Tetraploid and Diploid Echinacea purpurea. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2018, vol., no., pp., Registrované v: WOS
- ADCA136 CAPEK, Peter - TOMAN, Rudolf - Kardošová, Alžbeta - ROSIK, J. Polysaccharides from the roots of the marsh mallow (*Althaea officinalis* L.): Structure of an arabinan. In Carbohydrate Research, 1983, vol. 117, p. 133-140. ISSN 0008-6215.
- Citácie:
1. [1.1] KLOSTERHOFF, Rafael Roberto - BARK, Juliana Mueller - GLAENZEL, Nicolas Mancke - LACOMINI, Marcello - MARTINEZ, Glaucia Regina - WINNISCHOFER, Sheila M. B. - CORDEIRO, Lucimara M. C. Structure and intracellular antioxidant activity of pectic polysaccharide from acerola (*Malpighia emarginata*). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 106, no., pp. 473-480., Registrované v: WOS
- ADCA137 CAPEK, Peter - MATULOVÁ, Mária - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Structural features of an arabinogalactan-protein isolated from instant coffee powder of Coffea arabica beans. In Carbohydrate Polymers, 2010, vol. 80, p. 180-185. (2009: 3.167 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] CARTMELL, Alan - MUNOZ-MUNOZ, Jose - BRIGGS, Jonathon A. - NDEH, Didier A. - LOWE, Elisabeth C. - BASLE, Arnaud - TERRAPON, Nicolas - STOTT, Katherine - HEUNIS, Tiaan - GRAY, Joe - YU, Li - DUPREE, Paul - FERNANDES, Pearl Z. - SHAH, Sayali - WILLIAMS, Spencer J. - LABOUREL, Aurore - TROST, Matthias - HENRISSAT, Bernard -

- GILBERT, Harryj. *A surface endogalactanase in Bacteroides thetaiotaomicron confers keystone status for arabinogalactan degradation*. In NATURE MICROBIOLOGY. ISSN 2058-5276, 2018, vol. 3, no. 11, pp. 1314-1326., Registrované v: WOS
2. [1.1] HAN, Kun - JIN, Can - CHEN, Huanjun - WANG, Peipei - YU, Mei - DING, Kan. *Structural characterization and anti-A549 lung cancer cells bioactivity of a polysaccharide from Houttuynia cordata*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 288-296., Registrované v: WOS
3. [1.1] MALIK, N. - GOUSETI, O. - BAKALIS, S. *Effect of freezing on microstructure and reconstitution of freeze-dried high solid hydrocolloid-based systems*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 83, no., pp. 473-484., Registrované v: WOS
4. [1.1] PAWLACZYK-GRAJA, Izabela. *Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (Crataegus monogyna Jacq.): Chemical profiles and mechanisms of anticoagulant activity*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS
5. [1.1] SINGH, Baljit - KUMAR, Ajay. *Hydrogel formation by radiation induced crosslinked copolymerization of acrylamide onto moringa gum for use in drug delivery applications*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 200, no., pp. 262-270., Registrované v: WOS
6. [1.1] SINGH, Baljit - KUMAR, Ajay. *Radiation-induced graft copolymerization of N-vinyl imidazole onto moringa gum polysaccharide for making hydrogels for biomedical applications*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 1369-1378., Registrované v: WOS
7. [1.1] TAMIELLO, Camila Silva - ADAMI, Eliana Rezende - TURIN DE OLIVEIRA, Natalia Mulinari - ACCO, Alexandra - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. *Structural features of polysaccharides from edible jambo (Syzygium jumbos) fruits and antitumor activity of extracted pectins*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 1414-1421., Registrované v: WOS
8. [1.1] TAMIELLO, Camila Silva - DO NASCIMENTO, Georgia Erdmann - IACOMINI, Marcello - CORDEIRO, Lucimara M. C. *Arabinogalactan from edible jambo fruit induces different responses on cytokine secretion by THP-1 macrophages in the absence and presence of proinflammatory stimulus*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 35-41., Registrované v: WOS
9. [1.1] YAO, Yanli - YAO, Jian - DU, Zhenyun - WANG, Peipei - DING, Kan. *Structural elucidation and immune-enhancing activity of an arabinogalactan from flowers of Carthamus tinctorius L*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, no., pp. 134-142., Registrované v: WOS
10. [1.1] ZHANG, Hui - REN, Wei - GUO, Qingbing - XIONG, Zhiqiang - WANG, Guangqiang - XIA, Yongjun - LAI, Phoeny - YIN, Boxing - AI, Lianzhong. *Characterization of a yogurt-quality improving exopolysaccharide from Streptococcus thermophilus AR333*. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 81, no., pp. 220-228., Registrované v: WOS
- ADCA138 COLE, C.L. - HANSEN, S.U. - BARÁTH, Marek - RUSHTON, G. - GARDINER, J.M. - AVIZIENYTE, E. - JAYSON, G.C. *Synthetic heparan sulfate oligosaccharides inhibit endothelial cell functions essential for angiogenesis*. In PLoS ONE, 2010, vol. 5, art. no.e11644 (15pages).

Citácie:

1. [1.1] FARRUGIA, Brooke L. - MI, Yaolei - KIM, Ha Na - WHITELOCK, John M. - BAKER, Shenda M. - WIESMANN, William P. - LI, Zhe - MAITZ, Peter - LORD, Megan S. *Chitosan-Based Heparan Sulfate Mimetics Promote Epidermal Formation in a Human Organotypic Skin Model*. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2018, vol. 28, no. 36, pp., Registrované v: WOS
2. [1.1] FU, Haitian - DENG, Chao - TENG, Liping - CAI, Zhi - CHEN, Jinghua - LU, Guozhong. *Effect of heparan sulfate mimetics from Escherichia coli K5 polysaccharide on SDF-1/CXCL12-induced endothelial progenitor cells in vitro*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2492-2500., Registrované v: WOS

3. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. *Heparan Sulfate Mimetics in Cancer Therapy: The Challenge to Define Structural Determinants and the Relevance of Targets for Optimal Activity*. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS

ADCA139

- COTÉ, G.L. - BIELY, Peter. *Enzymatically produced cyclic alfa-1,3-linked and alfa-1,6-linked oligosaccharides of D-glucose*. In European Journal of Biochemistry, 1994, vol. 226, p. 641-648. ISSN 0014-2956.

Citácie:

1. [1.1] KOHNO, Masaki - ARAKAWA, Takatoshi - OTA, Hiromi - MORI, Tetsuya - NISHIMOTO, Tomoyuki - FUSHINOBU, Shinya. *Structural features of a bacterial cyclic alpha-maltosyl-(1→6)-*

- ADCA140 *maltose (CMM) hydrolase critical for CMM recognition and hydrolysis. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 43, pp. 16874-16888., Registrované v: WOS*  
 ČERTÍK, M. - ADAMECHOVÁ, Z. - HANUSOVÁ, V. - BREIEROVÁ, Emília. Biotechnology as a useful tool for nutritional improvement of cereal-based materials enriched polyunsaturated fatty acids and pigments. In Acta Agronomica Hungarica, 2008, vol. 56, p. 377-384. ISSN 0238-0161.  
 Citácie:  
 1. [1.1] ANTIMANON, Sompot - CHAMKHUY, Warinthon - SUTTHIWATTANAKUL, Sarinya - LAOTENG, Kobkul. Efficient production of arachidonic acid of *Mortierella* sp by solid-state fermentation using combinatorial medium with spent mushroom substrate. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 11, pp. 2899-2908., Registrované v: WOS
- ADCA141 ČERTÍK, M. - BREIEROVÁ, Emília - JURŠÍKOVÁ, P. Effect of Cadmium on lipid composition of *Aureobasidium pullulans* grown with added extracellular polysaccharides. In International Biodeterioration & Biodegradation, 2005, vol. 55, p. 195-202. ISSN 0964-8305.  
 Citácie:  
 1. [1.1] KIM, Jong-Shik - LEE, In-Kyoung - YUN, Bong-Sik. Pullusurfactants A-E, new biosurfactants produced by *Aureobasidium pullulans* A11211-4-57 from a fleabane, *Erigeron annuus* (L.) pers. In JOURNAL OF ANTIBIOTICS. ISSN 0021-8820, 2018, vol. 71, no. 11, pp. 920-926., Registrované v: WOS
- ADCA142 ČÍPÁK, Ľuboš - MIADOKOVÁ, Eva - RAUKO, Peter - NOVOTNÝ, Ladislav - KOGAN, Grigorij - DINGOVÁ, Hana. Comparative DNA protectivity and antimutagenicity studies using DNA-topology and Ames assays. In Toxicology in Vitro, 2001, vol. 15, p. 677-681. (2001 - Current Contents). ISSN 0887-2333.  
 Citácie:  
 1. [1.1] DUROVCOVA, Ivana - SPACKOVA, Jana - PUSKAR, Marek - GALOVA, Eliska - SEVCOVICOVA, Andrea. Bisphenol A as an environmental pollutant with dual genotoxic and DNA-protective effects. In NEUROENDOCRINOLOGY LETTERS. ISSN 0172-780X, 2018, vol. 39, no. 4, pp. 294-298., Registrované v: WOS  
 2. [1.1] ZDURIENCIKOVA, Martina - CHOLUJOVA, Dana - DURAJ, Jozef - MASTIHUBOVA, Maria - MASTIHUBA, Vladimir - POTOCKA, Elena Karnisova - GALOVA, Eliska - SEVCOVICOVA, Andrea - KLAPAKOVA, Martina - HORVATHOVA, Eva. Salidroside, a Chemopreventive Glycoside, Diminishes Cytotoxic Effect of Cisplatin in Vitro. In BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY. ISSN 1742-7835, 2018, vol. 122, no. 3, pp. 346-354., Registrované v: WOS
- ADCA143 ČÍŽOVÁ, A. - KOSCHELLA, A. - HEINZE, T. - EBRINGEROVÁ, Anna - SROKOVÁ, I. Octenylsuccinate derivatives of carboxymethyl starch - synthesis and properties. In Starch-Starke, 2007, vol. 59, p. 482-492. ISSN 0038-9056.  
 Citácie:  
 1. [1.1] ZHAO, Shaojie - TIAN, Guifang - ZHAO, Chengying - LU, Chang - BAO, Yuming - LIU, Xingxun - ZHENG, Jinkai. Emulsifying stability properties of octenyl succinic anhydride (OSA) modified waxy starches with different molecular structures. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 85, no., pp. 248-256., Registrované v: WOS
- ADCA144 ČÍŽOVÁ, Alžbeta - KORCOVÁ, Jana, Vráblová - FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Efficient separation of mannan-protein by ionic liquid aqueous two-phase system, comparison with lectin affinity purification. In International Journal of Biological Macromolecules, 2017, vol. 98, p. 314-318. (2016: 3.671 - IF, Q1 - JCR, 0.882 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0141-8130.  
 Citácie:  
 1. [1.1] CAO, Changliang - HUANG, Qiang - ZHANG, Bin - LI, Chao - FU, Xiong. Physicochemical characterization and in vitro hypoglycemic activities of polysaccharides from *Sargassum pallidum* by microwave-assisted aqueous two-phase extraction. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 357-368., Registrované v: WOS  
 2. [1.1] LI SHUANG - LI SHUNI - ZHAI QUANGUO - JIANG YUCHENG - HU MANCHENG. Phase Behavior of Ionic Liquids-Cesium Carbonate-Water Aqueous Two-phase Systems and Their Extraction of L-Tryptophan. In CHEMICAL RESEARCH IN CHINESE UNIVERSITIES. ISSN 1005-9040, 2018, vol. 34, no. 1, pp. 127-131., Registrované v: WOS  
 3. [1.1] LI, Peng - ZHAO, Pengyun - LIU, Weijie - JIANG, Yifu - WANG, Wenjiao - BAO, Longyue - JIN, Yongri - LI, Xuwen. Determination of common ginsenosides in Kang' ai injection by aqueous two-phase extraction with deep eutectic solvents and HPLC-UV/DAD. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, 2018, vol. 137, no., pp. 302-308., Registrované v: WOS
- ADCA145 ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - BYSTRICKÝ, Slavomír. Ultrasonic and free-radical degradation of mannan from *Candida albicans*. In International Journal of Biological



Macromolecules, 2015, vol. 75, p. 32-36. (2014: 2.858 - IF, Q2 - JCR, 0.861 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0141-8130.

Citácie:

1. [1.1] CHEUNG, Yi-Ching - YIN, Junyi - WU, Jian-Yong. Effect of polysaccharide chain conformation on ultrasonic degradation of curdlan in alkaline solution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 298-302., Registrované v: WOS
2. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

ADCA146 ČURILLOVÁ, Z. - KUTSCHY, P. - SOLČÁNIOVÁ, E. - PILÁTOVÁ, M. - MOJŽIŠ, J. - KOVÁČIK, Vladimír. Synthesis and antiproliferative activity of 1-methoxy-, 1-(alfa-D-ribofuranosyl)-and 1-(beta-D-ribofuranosyl)brassenin B. In ARKIVOC, 2008, vol. 2008, part viii, p. 85-104. ISSN 1424-6376.

Citácie:

1. [1.1] ALVAREZ, Raquel - GAJATE, Consuelo - PUEBLA, Pilar - MOLLINEDO, Faustino - MEDARDE, Manuel - PELAEZ, Rafael. Substitution at the indole 3 position yields highly potent indolecambretastatins against human tumor cells. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2018, vol. 158, no., pp. 167-183., Registrované v: WOS

ADCA147 DAMBORSKÁ, Dominika - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika, Došeková - HOLAZOVÁ, Alena, Šedivá - LORENCOVÁ, Lenka - KASÁK, Peter - TKÁČ, Ján. Nanomaterial-based biosensors for detection of prostate specific antigen. In Microchimica Acta, 2017, vol. 184, p. 3049-3067. (2016: 4.580 - IF, Q1 - JCR, 1.111 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0026-3672.

Citácie:

1. [1.1] DORCAK, Vlastimil - TREFULKA, Mojmir - PALECEK, Emil. A Preliminary Study of Os(VI)-Binding Specificity to Glycopeptide and Peptide. In PROCEEDINGS OF THE INTERNATIONAL CONFERENCE MODERN ELECTROCHEMICAL METHODS XXXVIII, 2018, vol., no., pp. 35-38., Registrované v: WOS
2. [1.1] KAVOSI, Begard - NAVAEI, Aso - SALIMI, Abdollah. Amplified fluorescence resonance energy transfer sensing of prostate specific antigen based on aggregation of CdTe QDs/antibody and aptamer decorated of AuNPs-PAMAM dendrimer. In JOURNAL OF LUMINESCENCE. ISSN 0022-2313, 2018, vol. 204, no., pp. 368-374., Registrované v: WOS
3. [1.1] LAI, Huasheng - XU, Fugang - WANG, Li. A review of the preparation and application of magnetic nanoparticles for surface-enhanced Raman scattering. In JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2018, vol. 53, no. 12, pp. 8677-8698., Registrované v: WOS
4. [1.1] LI, Jingyuan - YAO, Min - SHAO, Yixiang - YAO, Dengfu. The application of bio-nanotechnology in tumor diagnosis and treatment: a view. In NANOTECHNOLOGY REVIEWS. ISSN 2191-9089, 2018, vol. 7, no. 3, pp. 257-266., Registrované v: WOS
5. [1.1] LIU, Guangxing - ZHANG, Tian - TANG, Yuguo - MIAO, Peng. An ultrasensitive aptasensor for prostate specific antigen assay based on Exonuclease T-aided cyclic cleavage. In SCIENCE CHINA-CHEMISTRY. ISSN 1674-7291, 2018, vol. 61, no. 4, pp. 393-396., Registrované v: WOS
6. [1.1] PARRA, Joao P. R. L. L. - CRULHAS, Bruno P. - BASSO, Caroline R. - DELELLA, Flavia K. - CASTRO, Gustavo R. - PEDROSA, Valber A. Using an Electrochemical Aptasensor to Early Detect Prostate Specific and Free Prostate Specific Antigens Released by Cancer Cells. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 12, pp. 2869-2877., Registrované v: WOS
7. [1.1] SHIN, Joonchul - CHAKRAVARTY, Sudesna - CHOI, Wooseok - LEE, Kyungyeon - HAN, Dongsik - HWANG, Hyundoo - CHOI, Jaekyu - JUNG, Hyo-Il. Mobile diagnostics: next-generation technologies for in vitro diagnostics. In ANALYST. ISSN 0003-2654, 2018, vol. 143, no. 7, pp. 1515-1525., Registrované v: WOS
8. [1.1] ZHANG, Guojuan - LIU, Zhiguang - FAN, Lifang - GUO, Yujing. Electrochemical prostate specific antigen aptasensor based on hemin functionalized graphene-conjugated palladium nanocomposites. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 3, pp., Registrované v: WOS
9. [1.2] GHOSH, Shyamasree. Nanomaterials safety: Toxicity and health hazards. In Nanomaterials Safety: Toxicity and Health Hazards, 2018-01-01, pp. 1-274., Registrované v: SCOPUS

ADCA148 DAMBORSKÁ, Dominika - BELICKÝ, Štefan - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján. Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. In Analyst, 2016, vol. 141, p. 1044-1051. (2015: 4.033 - IF, Q1 - JCR, 1.252 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2654.

## Citácie:

1. [1.1] AYDIN, Elif Burcu - AYDIN, Muhammet - SEZGINTURK, Mustafa Kemal. Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1 beta in human serum and saliva. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 270, no., pp. 18-27., Registrované v: WOS
2. [1.1] MAVRIKOU, Sophie - MOSCHOPOULOU, Georgia - ZAFEIRAKIS, Athanasios - KALOGEROPOULOU, Konstantina - GIANNAKOS, Georgios - SKEVIS, Athanasios - KINTZIOS, Spyridon. An Ultra-Rapid Biosensory Point-of-Care (POC) Assay for Prostate-Specific Antigen (PSA) Detection in Human Serum. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 11, pp., Registrované v: WOS

ADCA149

DAMBORSKÁ, Dominika - KASÁK, Peter - KUBÁNIKOVÁ, Petra - SOKOL, Roman - TKÁČ, Ján. Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. In *Analytica Chimica Acta*, 2016, vol. 934, p. 72-79. (2015: 4.712 - IF, Q1 - JCR, 1.491 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2670.

## Citácie:

1. [1.1] LI, R. J. Eveline - VAN VLIET, Sandra J. - VAN KOOYK, Y. Using the glycan toolbox for pathogenic interventions and glycan immunotherapy. In *CURRENT OPINION IN BIOTECHNOLOGY*. ISSN 0958-1669, 2018, vol. 51, no., pp. 24-31., Registrované v: WOS
2. [1.1] LUBBERS, Joyce - RODRIGUEZ, Ernesto - VAN KOOYK, Yvette. Modulation of Immune Tolerance via Siglec-Sialic Acid Interactions. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] MAVRIKOU, Sophie - MOSCHOPOULOU, Georgia - ZAFEIRAKIS, Athanasios - KALOGEROPOULOU, Konstantina - GIANNAKOS, Georgios - SKEVIS, Athanasios - KINTZIOS, Spyridon. An Ultra-Rapid Biosensory Point-of-Care (POC) Assay for Prostate-Specific Antigen (PSA) Detection in Human Serum. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 11, pp., Registrované v: WOS
4. [1.1] SHI, Huan - ZHANG, Bibo - LIU, Shuwen - TAN, Chunyan - TAN, Ying - JIANG, Yuyang. A New Strategy Involving the Use of Peptides and Graphene Oxide for Fluorescence Turn-on Detection of Proteins. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 2, pp., Registrované v: WOS
5. [1.1] ZHANG, Zejian - WUHRER, Manfred - HOLST, Stephanie. Serum sialylation changes in cancer. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2018, vol. 35, no. 2, pp. 139-160., Registrované v: WOS

ADCA150

DAMBORSKÁ, Dominika - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - BELICKÝ, Štefan - BERTÓK, Tomáš - KASÁK, Peter - MUCHA, Ján - TKÁČ, Ján. Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. In *Proteomics*, 2016, vol. 16, p. 3085-3095. (2015: 4.079 - IF, Q1 - JCR, 1.464 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1615-9853.

## Citácie:

1. [1.1] COULIBALY, Fohona S. - YOUAN, Bi-Botti C. Current status of lectin-based cancer diagnosis and therapy. In *AIMS MOLECULAR SCIENCE*. ISSN 2372-0301, 2017, vol. 4, no. 1, pp. 1-27., Registrované v: WOS
2. [1.1] LI, Faying - LI, Yueyun - FENG, Jinhui - DONG, Yunhui - WANG, Ping - CHEN, Lei - CHEN, Zhiwei - LIU, Hui - WEI, Qin. Ultrasensitive amperometric immunosensor for PSA detection based on Cu<sub>2</sub>O@CeO<sub>2</sub>-Au nanocomposites as integrated triple signal amplification strategy. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 87, no., pp. 630-637., Registrované v: WOS
3. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In *CANCER LETTERS*. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
4. [1.1] UHLIROVA, Dagmar - STANKOVA, Martina - DOCEKALOVA, Michaela - HOSNEDLOVA, Bozena - KEPINSKA, Marta - RUTTKAY-NEDECKY, Branislav - RUZICKA, Josef - FERNANDEZ, Carlos - MILNEROWICZ, Halina - KIZEK, Rene. A Rapid Method for the Detection of Sarcosine Using SPIONs/Au/CS/SOX/NPs for Prostate Cancer Sensing. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 12, pp., Registrované v: WOS

ADCA151

DAMBORSKÝ, Pavel - KOCZULA, Katarzyna M. - GALLOTA, Andrea - KATRLÍK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In *Analyst*, 2016, vol. 141, p. 6444-6448. (2015: 4.033 - IF, Q1 - JCR, 1.252 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2654.

## Citácie:

1. [1.1] HENDERSON, Wendy A. - XIANG, Lichen - FOURIE, Nicolaas H. - ABEY, Sarah K. - FERGUSON, Eric G. - DIALLO, Ana F. - KENEA, Natnael D. - KIM, Chang Hee. Simple lateral flow assays for microbial detection in stool. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2018, vol. 10, no. 45, pp. 5358-5363., Registrované v: WOS
2. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
- ADCA152 DAMBORSKÝ, Pavel - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav. Determining the binding affinities of prostate-specific antigen to lectins: SPR and microarray approaches. In *Proteomics*, 2016, vol. 16, p. 3096-3104. (2015: 4.079 - IF, Q1 - JCR, 1.464 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1615-9853.
- Citácie:
1. [1.1] GORODKIEWICZ, Ewa - LUKASZEWSKI, Zenon. Recent Progress in Surface Plasmon Resonance Biosensors (2016 to Mid-2018). In *BIOSENSORS-BASEL*. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS
2. [1.1] LIU, Li - ZHAO, Guanhui - DONG, Xue - LI, Xuan - WEI, Qin - CAO, Wei. An electrochemical immunosensor based on a multiple signal amplification strategy for highly sensitive detection of prostate specific antigen. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2018, vol. 10, no. 40, pp. 4917-4925., Registrované v: WOS
- ADCA153 DAVIS, J.J. - TKÁČ, Ján - LAURENSEN, S. - FERRIGNO, P.K. Peptide aptamers in label-free protein detection: 1. Characterization of the immobilized scaffold. In *Analytical Chemistry*, 2007, vol. 79, p. 1089-1096. (2006: 5.646 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0003-2700.
- Citácie:
1. [1.1] BERTO, Marcello - DIACCI, Chiara - D'AGATA, Roberta - PINTI, Marcello - BIANCHINI, Elena - DI LAURO, Michele - CASALINI, Stefano - COSSARIZZA, Andrea - BERGGREN, Magnus - SIMON, Daniel - SPOTO, Giuseppe - BISCARINI, Fabio - BORTOLOTTI, Carlo A. EGO FET Peptide Aptasensor for Label-Free Detection of Inflammatory Cytokines in Complex Fluids. In *ADVANCED BIOSYSTEMS*. ISSN 2366-7478, 2018, vol. 2, no. 2, pp., Registrované v: WOS
- ADCA154 DAVIS, Jason J. - TKÁČ, Ján - HUMPHREYS, Rachel - BUXTON, Anthony T. - FERRINGO, Paul Ko - LEE, Tracy A. Peptide aptamers in label-free protein detection: 2. chemical optimization and detection of distinct protein isoforms. In *Analytical Chemistry*, 2009, vol. 81, p. 3314-3320. (2008: 5.712 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0003-2700.
- Citácie:
1. [1.1] BERTO, Marcello - DIACCI, Chiara - D'AGATA, Roberta - PINTI, Marcello - BIANCHINI, Elena - DI LAURO, Michele - CASALINI, Stefano - COSSARIZZA, Andrea - BERGGREN, Magnus - SIMON, Daniel - SPOTO, Giuseppe - BISCARINI, Fabio - BORTOLOTTI, Carlo A. EGO FET Peptide Aptasensor for Label-Free Detection of Inflammatory Cytokines in Complex Fluids. In *ADVANCED BIOSYSTEMS*. ISSN 2366-7478, 2018, vol. 2, no. 2, pp., Registrované v: WOS
- ADCA155 DEMOVIČOVÁ, Lucia - HOBZA, Pavel - ŘEZÁČ, Jan. Evaluation of composite schemes for CCSDT(Q) calculations of interaction energies of noncovalent complexes. In *Physical Chemistry Chemical Physics*, 2014, vol. 16, p. 19115-19121. (2013: 4.198 - IF, 1.715 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1463-9076.
- Citácie:
1. [1.1] SIRIANNI, Dominic A. - ALENAIZAN, Asem - CHENEY, Daniel L. - SHERRILL, C. David. Assessment of Density Functional Methods for Geometry Optimization of Bimolecular van der Waals Complexes. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 3004-3013., Registrované v: WOS
- ADCA156 DEMOVIČOVÁ, Lucia, Šimová - ŘEZÁČ, Jan - HOBZA, Pavel. Convergence of the interaction energies in noncovalent complexes in the coupled-cluster methods up to full configuration interaction. In *Journal of Chemical Theory and Computation*, 2013, vol. 9, p. 3420-3428. (2012: 5.389 - IF, 2.744 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1549-9618.
- Citácie:
1. [1.1] DUTTA, Narendra Nath - PATKOWSKI, Konrad. Improving "Silver-Standard" Benchmark Interaction Energies with Bond Functions. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 3053-3070., Registrované v: WOS
2. [1.1] LAO, Ka Un - HERBERT, John M. Atomic Orbital Implementation of Extended Symmetry-Adapted Perturbation Theory (XSAPT) and Benchmark Calculations for Large Supramolecular Complexes. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 2955-2978., Registrované v: WOS



- ADCA157 DERGUNOVA, M.A. - ALEXEENKO, T.V. - ZHANAEVA, S.Y. - FILYUSHINA, E.E. - BUZUEVA, I.I. - KOLESNIKOVA, O.P. - KOGAN, Grigorij - KOROLENKO, T.A. Characterization of the novel chemically modified fungal polysaccharides as the macrophage stimulators. In *International Immunopharmacology*, 2009, vol. 9, p. 729-733.  
Citácie:  
1. [1.1] CHEN, Fang - HUANG, Gangliang. Preparation and immunological activity of polysaccharides and their derivatives. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 112, no., pp. 211-216., Registrované v: WOS  
2. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS
- ADCA158 DESBOUIS, D. - STRUTHERS, H. - SPIWOK, Vojtech - KUSTER, T. - SCHIBLI, R. Synthesis, in vitro, and in silico evaluation of organometallic technetium and rhenium thymidine complexes with retained substrate activity toward human thymidine kinase type 1. In *Journal of Medicinal Chemistry*, 2008, vol. 51, p. 6689-6698. ISSN 0022-2623.  
Citácie:  
1. [1.1] DABROWSKA, Aneta - MATUSZEWSKI, Michal - ZWOLINSKI, Krzysztof - IGNACZAK, Anna - OLEJNICZAK, Agnieszka B. Insight into lipophilicity of deoxyribonucleoside-boron cluster conjugates. In *EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 0928-0987, 2018, vol. 111, no., pp. 226-237., Registrované v: WOS  
2. [1.1] DUAN, Xiaojiang - GAN, Qianqian - SONG, Xiaoqing - FANG, Si'an - ZHANG, Xuran - RUAN, Qing - ZHANG, Junbo. Synthesis and biological evaluation of novel Tc-99m-oxo and Tc-99m-tricarbonyl complexes with C3-functionalized thymidine dithiocarbamate for tumor imaging. In *APPLIED ORGANOMETALLIC CHEMISTRY*. ISSN 0268-2605, 2018, vol. 32, no. 8, pp., Registrované v: WOS  
3. [1.1] DUAN, Xiaojiang - RUAN, Qing - GAN, Qianqian - SONG, Xiaoqing - FANG, Si'an - ZHANG, Xuran - ZHANG, Junbo. Radiosynthesis and evaluation of novel Tc-99m(CO)(3)-labelled thymidine dithiocarbamate derivatives for tumor imaging with SPECT. In *JOURNAL OF ORGANOMETALLIC CHEMISTRY*. ISSN 0022-328X, 2018, vol. 868, no., pp. 154-163., Registrované v: WOS  
4. [1.1] DUAN, Xiaojiang - ZHANG, Xuran - GAN, Qianqian - FANG, Si'an - RUAN, Qing - SONG, Xiaoqing - ZHANG, Junbo. Novel Tc-99m-labelled complexes with thymidine isocyanide: radiosynthesis and evaluation as potential tumor imaging tracers. In *MEDCHEMCOMM*. ISSN 2040-2503, 2018, vol. 9, no. 4, pp. 705-712., Registrované v: WOS  
5. [1.1] TALAAT, H. M. - IBRAHIM, I. T. - BAYOMY, N. A. - FAROUK, N. Synthesis of Tc-99m-Radiolabeled Uridine as a Potential Tumor Imaging Agent. In *RADIOCHEMISTRY*. ISSN 1066-3622, 2018, vol. 60, no. 1, pp. 51-57., Registrované v: WOS
- ADCA159 DOMANSKÝ, R. - RENDOS, F. Study of pyrolysis of wood and its components. In *Holz als Roh- und Werkstoff*, 1962, vol. 20, p. 473-476.  
Citácie:
- ADCA160 DOMÉNY, Z. - ŠMOGROVIČOVÁ, D. - GEMEINER, Peter - ŠTURDÍK, E. - PÁTKOVÁ, J. - MALOVÍKOVÁ, Anna. Continuous secondary fermentation using immobilized yeast. In *Biotechnology Letters*, 1998, vol. 20, p. 1041-1045. ISSN 0141-5492.  
Citácie:  
1. [1.1] BAIANO, Antonietta - PETRUZZI, Leonardo. The role of starter cultures and spontaneous fermentation in traditional and innovative beer production. In *STARTER CULTURES IN FOOD PRODUCTION*, 2017, vol., no., pp. 231-254., Registrované v: WOS  
2. [1.1] DJORDJEVIC, Verica - WILLAERT, Ronnie - GIBSON, Brian - NEDOVIC, Viktor. Immobilized Yeast Cells and Secondary Metabolites. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
- ADCA161 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - KOGAN, Grigorij - JANČINOVÁ, Viera. Glucomanan reduces neutrophil free radical production in vitro and in rats with adjuvant arthritis. In *Pharmacological Research*, 2009, vol. 59, p. 399-403. (2008: 3.287 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1043-6618.  
Citácie:  
1. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS



- ADCA162 DŘÍMALOVÁ, E. - VELEBNÝ, V. - SASINKOVÁ, Vlasta - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Degradation of hyaluronan by ultrasonication in comparison to microwave and conventional heating. In *Carbohydrate Polymers*, 2005, vol. 61, p. 420-426. (2004: 1.710 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] BORKE, Tina - NAJBERG, Mathie - ILINA, Polina - BHATTACHARYA, Madhushree - URTTI, Arto - TENHU, Heikki - HIETALA, Sami. Hyaluronic Acid Graft Copolymers with Cleavable Arms as Potential Intravitreal Drug Delivery Vehicles. In *MACROMOLECULAR BIOSCIENCE*. ISSN 1616-5187, 2018, vol. 18, no. 1, pp., Registrované v: WOS
  - [1.1] MLADENOVÁ, Ralitsa - SABOTINOV, Ognian - KARAKIROVA, Yordanka - SHOPSKA, Maya - GYUROVA, Magdalina. PRELIMINARY STUDY ON LASERS AND X-RAY IRRADIATION EFFECTS ON HYALURONIC ACID DERMAL FILLERS. In *COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES*. ISSN 1310-1331, 2018, vol. 71, no. 11, pp. 1451-1457., Registrované v: WOS
  - [1.1] SLADEK, Svenja - KEARNEY, Clodagh - CREAN, Daniel - BRAMA, Pieter A. J. - TAJBER, Lidia - FAWCETT, Karolina - LABBERTE, Margot C. - LEGGETT, Bernadette - BRAYDEN, David J. Intra-articular delivery of a nanocomplex comprising salmon calcitonin, hyaluronic acid, and chitosan using an equine model of joint inflammation. In *DRUG DELIVERY AND TRANSLATIONAL RESEARCH*. ISSN 2190-393X, 2018, vol. 8, no. 5, pp. 1421-1435., Registrované v: WOS
  - [1.1] WANG, Zhaojie - QIU, Yuanhao - HOU, Chunyan - WANG, Dongdong - SUN, Feifei - LI, Xiaojun - WANG, Feng - YI, Hong - MU, Haibo - DUAN, Jinyou. Synthesis of hyaluronan-amikacin conjugate and its bactericidal activity against intracellular bacteria in vitro and in vivo. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 132-140., Registrované v: WOS
  - [1.2] DESBRIÈRES, Jacques - GRASSL, Bruno - PETIT, Charlotte - REYNAUD, Stéphanie. Using microwaves to extract and functionalize natural or bio-based molecules. In *Actualite Chimique*. ISSN 01519093, 2018-03-01, 427-428, pp. 87-90., Registrované v: SCOPUS
  - [1.2] ZHANG, He Nan - MA, Hai Le - ZHOU, Cun Shan - YAN, Yang - YIN, Xiu Lian - YAN, Jing Kun. Enhanced production and antioxidant activity of endo-polysaccharides from *Phellinus igniarius* mutants screened by low power He-Ne laser and ultraviolet induction. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2018-07-01, 15, pp. 30-36., Registrované v: SCOPUS
- ADCA163 DUPUY, Joan - LEGLIZE, Pierre - VINCENT, Quentin - ZELKO, Ivan - MUSTIN, Christian - OUVREARD, Stephanie - STERCKEMAN, Thibault. Effect and localization of phenanthrene in maize roots. In *Chemosphere*, 2016, vol. 149, p. 130-136. (2015: 3.698 - IF, Q1 - JCR, 1.510 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0045-6535.
- Citácie:
- [1.1] LI, Ruilong - SUN, Haifeng - WANG, Shaopeng - WANG, Yinghui - YU, Kefu. Retention of CdS/ZnS Quantum Dots (QDs) on the Root Epidermis of Woody Plant and Its Implications by Benzo[a]pyrene: Evidence from the in Situ Synchronous Nanosecond Time-Resolved Fluorescence Spectra Method. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 4, pp. 814-821., Registrované v: WOS
  - [1.1] ZHAN, Xinhua - ZHU, Mandang - SHEN, Yu - YUE, Le - LI, Jinfeng - GARDEA-TORRESDEY, Jorge L. - XU, Guohua. Apoplastic and symplastic uptake of phenanthrene in wheat roots. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2018, vol. 233, no., pp. 331-339., Registrované v: WOS
- ADCA164 ĐURANA, Richard - LACÍK, Igor - PAULOVIČOVÁ, Ema - BYSTRICKÝ, Slavomír. Functionalization of mannans from pathogenic yeasts by different means of oxidations-preparation of precursors for conjugation reactions with respect to preservation of immunological properties. In *Carbohydrate Polymers*, 2006, vol. 63, no. 1, p. 72-81. (2005: 1.583 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] BORJESSON, M. - LARSSON, A. - WESTMAN, G. - STROM, A. Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, DEC 15 2018, vol. 202, p. 280-287., Registrované v: WOS
- ADCA165 ĐURANOVÁ, Miroslava, Křupalová - ŠPÁNIKOVÁ, Silvia - WOSTEN, Han A.B. - BIELY, Peter - DE VRIES, Ronald P. Two glucuronoyl esterases of *Phanerochaete chrysosporium*. In *Archives of Microbiology*, 2009, vol. 191, p. 133-140. (2008: 1.975 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0302-8933.
- Citácie:
- [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the

- preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
2. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
3. [1.1] SAKURAGI, Kiyoshi - HORI, Chiaki - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro. Secretome analysis of the basidiomycete *Phanerochaete chrysosporium* grown on ammonia-treated lignocellulosic biomass from birch wood. In *JOURNAL OF WOOD SCIENCE*. ISSN 1435-0211, 2018, vol. 64, no. 6, pp. 845-853., Registrované v: WOS
- ADCA166 ĐURANOVÁ, Miroslava, Křupalová - HIRSCH, Ján - ŠUCHOVÁ, Katarína, Kolenová - BIELY, Peter. Fungal Glucuronoyl Esterases and Substrate Uronic Acid Recognition. In *Bioscience, Biotechnology, and Biochemistry*, 2009, vol. 73, no. 11, p. 2483-2487.
- Citácie:
1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
3. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
4. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In *BIORESOURCES AND BIOPROCESSING*, 2018, vol. 5, no., pp., Registrované v: WOS
5. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
6. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
- ADCA167 ĐURKOVIČ, J. - LUX, Alexander. Micropropagation with a novel pattern of adventitious rooting in American sweetgum (*Liquidambar styraciflua* L.). In *Trees-Structure and Function*, 2010, vol. 24, p. 491-497. (2009: 1.603 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0931-1890.
- Citácie:
1. [1.2] RAKRAWEE, R. - KITTIBANPACHA, K. - CHAREONSAP, P. P. - POEAIM, A. Efficiency of cytokinin for propagation of *Gluta usitata* (Na-pong3) in vitro. In *International Journal of Agricultural Technology*, 2018-12-01, 14, 7, pp. 1731-1742., Registrované v: SCOPUS
- ADCA168 DURUKSU, G. - OZTURK, B. - BIELY, Peter - BAKIR, U. - OGEL, Z.B. Cloning, expression and characterization of endo- $\beta$ -1,4-mannanase from *Aspergillus fumigatus* in *Aspergillus sojae* and *Pichia pastoris*. In *Biotechnology Progress*, 2009, vol. 25, p. 271-276. (2008: 2.108 - IF). ISSN 8756-7938.
- Citácie:
1. [1.1] LIU, Junquan - BASIT, Abdul - MIAO, Ting - ZHENG, Fengzhen - YU, Hang - WANG, Yan - JIANG, Wei - CAO, Yunhe. Secretory expression of mannanase in *Saccharomyces cerevisiae* and its high efficiency for hydrolysis of mannans to mannooligosaccharides. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 23, pp. 10027-10041., Registrované v: WOS
2. [1.1] ZHOU, Cheng - XUE, Yanfen - MA, Yanhe. Characterization and high-efficiency secreted expression in *Bacillus subtilis* of a thermo-alkaline beta-mannanase from an alkaliphilic *Bacillus clausii* strain S10. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS
- ADCA169 DZURILLA, M. - KUTSCHY, P. - ZÁLETOVÁ, J. - RUŽINSKÝ, M. - KOVÁČIK, Vladimír. Synthesis of camalexin. In *Molecules*, 2001, vol. 6, p. 716-720. ISSN 1420-3049.

## Citácie:

1. [1.1] EL-SAWY, Eslam R. - ABDELWAHAB, Ahmed B. - KIRSCH, Gilbert. Utilization of 1 HIndole-3-carboxaldehyde as a Precursor for the Synthesis of Bioactive Indole Alkaloids. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2018, vol. 50, no. 23, pp. 4525-4538., Registrované v: WOS

2. [1.1] STREMSKI, Yordan - STATKOVA-ABEGHE, Stela - ANGELOV, Plamen - IVANOV, Iliyan. Synthesis of Camalexin and Related Analogues. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2018, vol. 55, no. 7, pp. 1589-1595., Registrované v: WOS

ADCA170

DZURILLA, M. - RUŽINSKÝ, M. - KUTSCHY, P. - TEWARI, J.P. - KOVÁČIK, Vladimír. Application of 2-substituted ethyl isothiocyanates and 2-aminothiols in the synthesis of the analogs of indole phytoalexin camalexin. In Collection of Czechoslovak Chemical Communications, 1999, vol. 64, p. 1448-1456. (1998: 0.550 - IF, karentované - CCC). (1999 - Current Contents). ISSN 0010-0765.

## Citácie:

1. [1.1] STREMSKI, Yordan - STATKOVA-ABEGHE, Stela - ANGELOV, Plamen - IVANOV, Iliyan. Synthesis of Camalexin and Related Analogues. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2018, vol. 55, no. 7, pp. 1589-1595., Registrované v: WOS

ADCA171

EBRINGEROVÁ, Anna - HEINZE, T. Xylan and xylan derivatives - biopolymers with valuable properties, 1 - Naturally occurring xylans structures, procedures and properties. In Carbohydrate Polymers, 2000, vol. 21, p. 542-556. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617.

## Citácie:

1. [1.1] AHMAD, Fiaz - SILVA, Edson Luiz - AMANCIO VARESCHE, Maria Bernadete. Hydrothermal processing of biomass for anaerobic digestion A review. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, 2018, vol. 98, no., pp. 108-124., Registrované v: WOS

2. [1.1] AKIL, Youssef - CASTELLANI, Romain - LEHNEN, Ralph - BUDTOVA, Tatiana - SAAKE, Bodo. Hydroxyalkylation of xylan using propylene carbonate: comparison of products from homo- and heterogeneous synthesis by HRMAS NMR and rheology. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 217-231., Registrované v: WOS

3. [1.1] AKKUS, Merve - OZKAN, Necati - BAKIR, Ufuk. Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 8, pp. 3397-3403., Registrované v: WOS

4. [1.1] AZEVEDO CARVALHO, Ana Flavia - MARCONDES, Wilian Fioreli - NETO, Pedro de Oliva - PASTORE, Glaucia Maria - SADDLER, Jack N. - ARANTES, Valdeir. The potential of tailoring the conditions of steam explosion to produce xylo-oligosaccharides from sugarcane bagasse. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 250, no., pp. 221-229., Registrované v: WOS

5. [1.1] BAO, Yuping - ZHANG, Hao - LUAN, Qian - ZHENG, Mingming - TANG, Hu - HUANG, Fenghong. Fabrication of cellulose nanowhiskers reinforced chitosan-xylan nanocomposite films with antibacterial and antioxidant activities. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 184, no., pp. 66-73., Registrované v: WOS

6. [1.1] BASTOS, Rita - COELHO, Elisabete - COIMBRA, Manuel A. Arabinoxylans from cereal by-products: insights into structural features, recovery, and applications. In SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS. ISSN 2042-8049, 2018, vol., no., pp. 227-251., Registrované v: WOS

7. [1.1] BOKHARY, Amour - MALEKI, Esmat - LIAO, Baoqiang. Ultrafiltration for hemicelluloses recovery and purification from thermomechanical pulp mill process waters. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2018, vol. 118, no., pp. 103-112., Registrované v: WOS

8. [1.1] BORJESSON, Mikaela - HARDELIN, Linda - NYLANDER, Filip - KARLSSON, Kristina - LARSSON, Anette - WESTMAN, Gunnar. Arabinoxylan and Nanocellulose from a Kilogram-scale Extraction of Barley Husk. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 6201-6220., Registrované v: WOS

9. [1.1] BRUSA, C. - BELLOY, N. - GERARD, D. - MUZARD, M. - DAUCHEZ, M. - PLANTIER-ROYON, R. - REMOND, C. Exploring the aglycone subsite of a GH11 xylanase for the synthesis of xylosides by transglycosylation reactions. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 272, no., pp. 56-63., Registrované v: WOS

10. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS

11. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI,



- Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. *Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS*
12. [1.1] DEY, Prottyusha - ROY, Amit. *Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS*
13. [1.1] DUPOIRON, Stephanie - LAMELOISE, Marie-Laure - BEDU, Magali - LEWANDOWSKI, Richard - FARGUES, Claire - ALLAIS, Florent - TEIXEIRA, Andreia R. S. - RAKOTOARIVONINA, Harivony - REMOND, Caroline. *Recovering ferulic acid from wheat bran enzymatic hydrolysate by a novel and non-thermal process associating weak anion-exchange and electrodialysis. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 200, no., pp. 75-83., Registrované v: WOS*
14. [1.1] FARHAT, Wissam - VENDITTI, Richard - AYOUB, Ali - PROCHAZKA, Frederic - FERNANDEZ-DE-ALBA, Carlos - MIGNARD, Nathalie - TAHA, Mohamed - BECQUART, Frederic. *Towards thermoplastic hemicellulose: Chemistry and characteristics of poly-(epsilon-caprolactone) grafting onto hemicellulose backbones. In MATERIALS & DESIGN. ISSN 0264-1275, 2018, vol. 153, no., pp. 298-307., Registrované v: WOS*
15. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-min. *Effect of Delignification of Hemicellulose Extraction from Switchgrass, Poplar, and Pine and Its Effect on Enzymatic Convertibility of Cellulose-rich Residues. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 4946-4963., Registrované v: WOS*
16. [1.1] GLAZOWSKA, Sylwia - BALDWIN, Laetitia - MRAVEC, Jozef - BUKH, Christian - HANSEN, Thomas Hesselhoj - JENSEN, Mads Mork - FANGEL, Jonatan U. - WILLATS, William G. T. - GLASIUS, Marianne - FELBY, Claus - SCHJOERRING, Jan Kofod. *The impact of silicon on cell wall composition and enzymatic saccharification of Brachypodium distachyon. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS*
17. [1.1] HARDELIN, Linda - STROM, Anna - DI MAIO, Ernesto - IANNACE, Salvatore - LARSSON, Anette. *Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO<sub>2</sub>. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 442-449., Registrované v: WOS*
18. [1.1] JNAWALI, Prakriti - KUMAR, Vikas - TANWAR, Beenu - HIRDYANI, Harsha - GUPTA, Prerna. *Enzymatic Production of Xylooligosaccharides from Brown Coconut Husk Treated with Sodium Hydroxide. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 10, pp. 1757-1766., Registrované v: WOS*
19. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. *Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS*
20. [1.1] MA, Jiliang - LI, Dan - ZHONG, Linxin - DU, Fan - TAN, Jiewen - YANG, Jie - PENG, Xinwen. *Synthesis and characterization of biofunctional quaternized xylan-Fe<sub>2</sub>O<sub>3</sub> core/shell nanocomposites and modification with polylysine and folic acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 382-389., Registrované v: WOS*
21. [1.1] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. *Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2593-2635., Registrované v: WOS*
22. [1.1] MELINE, Thomas - MUZARD, Murielle - DELEU, Magali - RAKOTOARIVONINA, Harivony - PLANTIER-ROYON, Richard - REMOND, Caroline. *D-Xylose and L-arabinose laurate esters: Enzymatic synthesis, characterization and physico-chemical properties. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2018, vol. 112, no., pp. 14-21., Registrované v: WOS*
23. [1.1] MIAO, Youzhi - KONG, Yanqiong - LI, Pan - LI, Guangqi - LIU, Dongyang - SHEN, Qirong - ZHANG, Ruifu. *Effect of CBM1 and linker region on enzymatic properties of a novel thermostable dimeric GH10 xylanase (Xyn10A) from filamentous fungus Aspergillus fumigatus Z5. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS*
24. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. *Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS*
25. [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck.

- Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe Paenibacillus sp.* In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
26. [1.1] RATKE, Christine - TEREBIENIEC, Barbara K. - WINESTRAND, Sandra - DERBA-MACELUCH, Marta - GRAHN, Thomas - SCHIFFTHALER, Bastian - ULVCRONA, Thomas - OZPARPUCU, Merve - RUGGEBERG, Markus - LUNDQVIST, Sven-Olof - STREET, Nathaniel R. - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Downregulating aspen xylan biosynthetic GT43 genes in developing wood stimulates growth via reprogramming of the transcriptome. In NEW PHYTOLOGIST. ISSN 0028-646X, 2018, vol. 219, no. 1, pp. 230-245., Registrované v: WOS
27. [1.1] REN, Junli - DAI, Qingqing - ZHONG, Haoquan - LIU, Xinxin - MENG, Ling - WANG, Xiaohui - XIN, Fengxue. Quaternized xylan/cellulose nanocrystal reinforced magnetic hydrogels with high strength. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4537-4549., Registrované v: WOS
28. [1.1] ROSSONI, Luca - CARR, Reuben - BAXTER, Scott - CORTIS, Roxann - THORPE, Thomas - EASTHAM, Graham - STEPHENS, Gill. Engineering Escherichia coli to grow constitutively on D-xylose using the carbon-efficient Weimberg pathway. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2018, vol. 164, no. 3, pp. 287-298., Registrované v: WOS
29. [1.1] SENF, Deborah - RUPRECHT, Colin - KISHANI, Saina - MATIC, Aleksandar - TORIZ, Guillermo - GATENHOLM, Paul - WAGBERG, Lars - PFRENGLE, Fabian. Tailormade Polysaccharides with Defined Branching Patterns: Enzymatic Polymerization of Arabinoxylan Oligosaccharides. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 37, pp. 11987-11992., Registrované v: WOS
30. [1.1] UL AIN, Huma Bader - SAEED, Farhan - AHMAD, Nazir - IMRAN, Ali - NIAZ, Bushra - AFZAAL, Muhammad - IMRAN, Muhammad - TUFAIL, Tabussam - JAVED, Ahsan. Functional and health-endorsing properties of wheat and barley cell wall's non-starch polysaccharides. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2018, vol. 21, no. 1, pp. 1463-1480., Registrované v: WOS
31. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
32. [1.1] ZHANG, Jun-Feng - XU, Yong-Qing - DONG, Jia-Min - PENG, Li-Na - FENG, Xu - WANG, Xu - LI, Fei - MIAO, Yu - YAO, Shu-Kuan - ZHAO, Qiao-Qin - FENG, Shan-Shan - HU, Bao-Zhong - LI, Feng-Lan. Genome-wide identification of wheat (Triticum aestivum) expansins and expansin expression analysis in cold-tolerant and cold-sensitive wheat cultivars. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 3, pp., Registrované v: WOS
33. [1.1] ZHAO, Yushuang - JING, Shuangshuang - ZHANG, Xiaoting - CHEN, Zehong - ZHUO, Hao - HU, Yijie - LIU, Qingzhong - ZHONG, Linxin - PENG, Xinwen - SUN, Runcang. Strengthening effects of carboxymethylated hemicellulosic fractions on paper strength. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 360-369., Registrované v: WOS
34. [1.1] ZHONG, Ruiqin - CUI, Dongtao - DASHER, Robert L. - YE, Zheng-Hua. Biochemical characterization of rice xylan O-acetyltransferases. In PLANTA. ISSN 0032-0935, 2018, vol. 247, no. 6, pp. 1489-1498., Registrované v: WOS
35. [1.1] ZHONG, Ruiqin - CUI, Dongtao - PHILLIPS, Dennis R. - YE, Zheng-Hua. A Novel Rice Xylosyltransferase Catalyzes the Addition of 2-O-Xylosyl Side Chains onto the Xylan Backbone. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2018, vol. 59, no. 3, pp. 554-565., Registrované v: WOS
36. [1.1] ZHOU, Xia - DING, Dayong - YOU, Tingting - ZHANG, Xun - TAKABE, Keiji - XU, Feng. Synergetic Dissolution of Branched Xylan and Lignin Opens the Way for Enzymatic Hydrolysis of Poplar Cell Wall. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 13, pp. 3449-3456., Registrované v: WOS
37. [1.2] ACOSTA, Rolando - SANABRIA, Javier - NABARLATZ, Debora. Biomass from colombian agroindustrial activities: Characterization and potential for oligosaccharides production. In Chemical Engineering Transactions, 2018-01-01, 65, pp. 667-672., Registrované v: SCOPUS
38. [1.2] ACOSTA, Rolando - VIVIESCAS, Paula - SANDOVAL, Mayadir - NABARLATZ, Debora. Autohydrolysis of sugarcane bagasse and empty fruit bunch from oil palm: Kinetics model and analysis of xylo-Oligosaccharides yield. In Chemical Engineering Transactions, 2018-01-01, 65, pp. 307-312., Registrované v: SCOPUS
39. [1.2] HARFILIA HAFIDAH, Ani - SULISTYANINGSIH, Erma - HANDAYANI, Wuryanti - RATNADEWI, Anak Agung Istri. Prebiotic potential of xylooligosaccharides derived from cassava

- dregs in Balb/c mice colon. In *Pertanika Journal of Tropical Agricultural Science*. ISSN 15113701, 2018-08-01, 41, 3, pp. 1021-1031., Registrované v: SCOPUS
40. [1.2] KALININA, A. N. - BORSHCHEVSKAYA, L. N. - GORDEEVA, T. L. - SINEOKY, S. P. Comparison of xylanases of different origin in expression system of *Pichia pastoris*: Gene expression, biochemical characteristics and biotechnological potential. In *Biotechnologiya*. ISSN 02342758, 2018-01-01, 34, 4, pp. 26-36., Registrované v: SCOPUS
41. [1.2] KALININA, A. N. - GORDEEVA, T. L. - SINEOKY, S. P. Expression of gene for xylanase from *Paenibacillus brasilensis* X1 in *Pichia pastoris* and characteristics of recombinant enzyme. In *Biotechnologiya*. ISSN 02342758, 2018-01-01, 34, 6, pp. 22-32., Registrované v: SCOPUS
42. [1.2] KUSHWAHA, Prem Prakash - TIWARI, Ashish - KUMAR, Shashank. Bioactive carbohydrates. In *Secondary Metabolite and Functional Food Components: Role in Health and Disease*, 2018-01-01, pp. 197-222., Registrované v: SCOPUS
43. [1.2] LEVDANSKY, V. A. - KONDRASENKO, A. A. - LEVDANSKY, A. V. - KUZNETSOV, B. N. Sulfation of xylan with sulfamic acid in *N,N*-dimethylformamide. In *Khimiya Rastitel'nogo Syr'ya*. ISSN 10295151, 2018-01-01, 1, pp. 29-36., Registrované v: SCOPUS

ADCA172

EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HRÍBALOVÁ, V. Structure and mitogenic activities of corn cob heteroxylans. In *International Journal of Biological Macromolecules*, 1995, vol. 17, p. 327-331. ISSN 0141-8130.

Citácie:

- [1.1] BHAGIA, Samarthya - PU, Yunqiao - EVANS, Barbara R. - DAVISON, Brian H. - RAGAUSKAS, Arthur J. Hemicellulose characterization of deuterated switchgrass. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 269, no., pp. 567-570., Registrované v: WOS
- [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS
- [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from *Eucalyptus grandis*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS

ADCA173

EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HEINZE, T. Hemicellulose. In *Advances in Polymer Science*, 2005, vol. 186, p. 1-67. (2004: 7.320 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0065-3195.

Citácie:

- [1.1] AKHTAR, Masood - HAMAYUN, Muteen - IQBAL, Zafar - AWAIS, Mian Muhammad - ANWAR, Muhammad Irfan. Evaluation of biological response modification and immunotherapeutic activities of barley-derived arabinoxylans against coccidiosis in commercial broilers. In *TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES*. ISSN 1300-0128, 2018, vol. 42, no. 1, pp. 55-64., Registrované v: WOS
- [1.1] AKKUS, Merve - OZKAN, Necati - BAKIR, Ufuk. Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 8, pp. 3397-3403., Registrované v: WOS
- [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
- [1.1] AZIZ, Mohamed S. Abdel - SALAMA, Hend E. Effect of vinyl montmorillonite on the physical, responsive and antimicrobial properties of the optimized polyacrylic acid/chitosan superabsorbent via Box-Behnken model. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 840-848., Registrované v: WOS
- [1.1] BHARATHIRAJA, B. - SUDHARSANA, T. - JAYAMUTHUNAGAI, J. - PRAVEENKUMAR, R. - CHOZHAVENDHAN, S. - IYYAPPAN, J. Biogas production A review on composition, fuel properties, feed stock and principles of anaerobic digestion (Retraction of Vol 90, Pg 570, 2018). In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2018, vol. 94, no., pp. 1229-1229., Registrované v: WOS
- [1.1] BORJESSON, Mikaela - LARSSON, Anette - WESTMAN, Gunnar - STROM, Anna. Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 202, no., pp. 280-287., Registrované v: WOS
- [1.1] BROEKER, Jannis - MECHELKE, Matthias - BAUDREXL, Melanie - MENNERICH, Denise - HORNBURG, Daniel - MANN, Matthias - SCHWARZ, Wolfgang H. - LIEBL, Wolfgang - ZVERLOV, Vladimir V. The hemicellulose-degrading enzyme system of the thermophilic bacterium



- Clostridium stercorarium: comparative characterisation and addition of new hemicellulolytic glycoside hydrolases. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS*
8. [1.1] CASILLO, Angela - LANZETTA, Rosa - PARRILLI, Michelangelo - CORSARO, Maria Michela. Exopolysaccharides from Marine and Marine Extremophilic Bacteria: Structures, Properties, Ecological Roles and Applications. In MARINE DRUGS. ISSN 1660-3397, 2018, vol. 16, no. 2, pp., Registrované v: WOS
9. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS
10. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS
11. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS
12. [1.1] DUPONT, Anne-Laurence - REAU, Denis - BEGIN, Paul - PARIS-LACOMBE, Sabrina - TETREAULT, Jean - MORTHA, Gerard. Accurate molar masses of cellulose for the determination of degradation rates in complex paper samples. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 202, no., pp. 172-185., Registrované v: WOS
13. [1.1] FRODESON, Stefan - HENRIKSSON, Gunnar - BERGHEL, Jonas. Pelletizing Pure Biomass Substances to Investigate the Mechanical Properties and Bonding Mechanisms. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 1, pp. 1202-1222., Registrované v: WOS
14. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
15. [1.1] GARCIA-URIOTEGUI, L. - DELGADO, E. - IVAN MELENDEZ-ORTIZ, H. - CAMACHO-VILLEGAS, T. A. - ESQUIVEL-SOLIS, H. - GATENHOLM, P. - TORIZ, G. Spruce xylan/HEMA-SBA15 hybrid hydrogels as a potential scaffold for fibroblast growth and attachment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 201, no., pp. 490-499., Registrované v: WOS
16. [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS
17. [1.1] HAO, Huali - TAM, Lik-ho - LU, Yang - LAU, Denvi. An atomistic study on the mechanical behavior of bamboo cell wall constituents. In COMPOSITES PART B-ENGINEERING. ISSN 1359-8368, 2018, vol. 151, no., pp. 222-231., Registrované v: WOS
18. [1.1] HO, Ai Ling - KOSIK, Ondrej - LOVEGROVE, Alison - CHARALAMPOPOULOS, Dimitris - RASTALL, Robert A. In vitro fermentability of xylo-oligosaccharide and xylo-polysaccharide fractions with different molecular weights by human faecal bacteria. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 50-58., Registrované v: WOS
19. [1.1] JIANG, Jungang - LI, Zongquan - FU, Yingjuan - WANG, Zhaojiang - QIN, Menghua. Enhancement of colloidal particle and lignin removal from pre-hydrolysis liquor of aspen by a combination of pectinase and cationic polymer treatment. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 199, no., pp. 78-83., Registrované v: WOS
20. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
21. [1.1] LEE, Sue Jung - LEE, Ho Sung - KIM, Sun Young - SHIN, Kwang-Soon. Immunostimulatory and anti-metastatic activity of polysaccharides isolated from byproducts of the corn starch industry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 911-917., Registrované v: WOS
22. [1.1] LI, Han-Yin - CHEN, Xue - LI, Yi-Jing - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 191, no., pp. 364-369., Registrované v: WOS



23. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
24. [1.1] LIU, Liu - LI, Bei - XIANG, Yeping - ZHANG, Ruiyun - YU, Jianyong - FANG, Bin. Effect of Growth Period and Sampling Section on the Chemical Composition and Microstructure of Raw Hemp Fibers. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 1, pp. 1961-1976., Registrované v: WOS
25. [1.1] MA, Jiliang - LI, Dan - ZHONG, Linxin - DU, Fan - TAN, Jiewen - YANG, Jie - PENG, Xinwen. Synthesis and characterization of biofunctional quaternized xylan-Fe<sub>2</sub>O<sub>3</sub> core/shell nanocomposites and modification with polylysine and folic acid. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 382-389., Registrované v: WOS
26. [1.1] MARTINEZ-ABAD, Antonio - GIUMMARELLA, Nicola - LAWOKO, Martin - VILAPLANA, Francisco. Differences in extractability under subcritical water reveal interconnected hemicellulose and lignin recalcitrance in birch hardwoods. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 11, pp. 2534-2546., Registrované v: WOS
27. [1.1] MOLAEI, Hamideh - JAHANBIN, Kambiz. Structural features of a new water-soluble polysaccharide from the gum exudates of *Amygdalus scoparia* Spach (Zedo gum). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 182, no., pp. 98-105., Registrované v: WOS
28. [1.1] RAJINIPRIYA, Malladi - NAGALAKSHMAIAH, Malladi - ROBERT, Mathieu - ELKOUN, Said. Importance of Agricultural and Industrial Waste in the Field of Nanocellulose and Recent Industrial Developments of Wood Based Nanocellulose: A Review. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 2807-2828., Registrované v: WOS
29. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
30. [1.1] REYNOLDS, Wienke - SMIRNOVA, Irina. Hydrothermal flow-through treatment of wheat straw: Coupled heat and mass transfer modeling with changing bed properties. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2018, vol. 133, no., pp. 625-639., Registrované v: WOS
31. [1.1] RISSI, Silvana - FONTANA, Roselei Claudete - RECK, Mateus Arduvino - BORGES DA SILVEIRA, Rosa Mara - PINHEIRO DILLON, Aldo Jose - CAMASSOLA, Marli. Production of ethanol and xylitol by *Trametes membranacea*. In *BIOPROCESS AND BIOSYSTEMS ENGINEERING*. ISSN 1615-7591, 2018, vol. 41, no. 7, pp. 1017-1028., Registrované v: WOS
32. [1.1] SENF, Deborah - RUPRECHT, Colin - KISHANI, Saina - MATIC, Aleksandar - TORIZ, Guillermo - GATENHOLM, Paul - WAGBERG, Lars - PFRENGLE, Fabian. Tailormade Polysaccharides with Defined Branching Patterns: Enzymatic Polymerization of Arabinoxylan Oligosaccharides. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 37, pp. 11987-11992., Registrované v: WOS
33. [1.1] SHEIKHI, Parizad - PETROUDY, Seyed Rahman Djafari. Comparative Study of Xylan Extracted by Sodium and Potassium Hydroxides (NaOH and KOH) from Bagasse Pulp: Characterization and Morphological Properties. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 9, pp. 3710-3717., Registrované v: WOS
34. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. Modified and thermoplastic rapeseed straw xylan: A renewable additive in PCL biocomposites. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 119, no., pp. 73-82., Registrované v: WOS
35. [1.1] VILCOCQ, Lea - REBMANN, Edouard - CHEAH, You Wayne - FONGARLAND, Pascal. Hydrolysis of Cellobiose and Xylan over TiO<sub>2</sub>-Based Catalysts. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 4, pp. 5555-5565., Registrované v: WOS
36. [1.1] WANG, Huan - LIN, Wensheng - QIU, Xueqing - FU, Fangbao - ZHONG, Ruisheng - LIU, Weifeng - YANG, Dongjie. In Situ Synthesis of Flowerlike Lignin/ZnO Composite with Excellent UV-Absorption Properties and Its Application in Polyurethane. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 3696-3705., Registrované v: WOS
37. [1.1] WEI, Jianqiang. Degradation behavior and kinetics of sisal fiber in pore solutions of sustainable cementitious composite containing metakaolin. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2018, vol. 150, no., pp. 1-12., Registrované v: WOS
38. [1.1] YUE, Pan-Pan - FU, Gen-Que - HU, Ya-Jie - BIAN, Jing - LI, Ming-Fei - SHI, Zheng-Jun - PENG, Feng. Changes of Chemical Composition and Hemicelluloses Structure in Differently

- Aged Bamboo (Neosinocalamus affinis) Culms. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 35, pp. 9199-9208., Registrované v: WOS*
39. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
40. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A mechanistic model of fast pyrolysis of hemicellulose. In ENERGY & ENVIRONMENTAL SCIENCE. ISSN 1754-5692, 2018, vol. 11, no. 5, pp. 1240-1260., Registrované v: WOS
41. [1.1] ZHOU, Xin - ZHANG, Hongyu - XU, Yong. BIODEGRADATION AND UTILIZATION OF HEMICELLULOSE. In FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE, 2018, vol., no., pp. 183-218., Registrované v: WOS
42. [1.2] FLÓREZ-PARDO, Luz Marina - GONZÁLEZ-CÓRDOBA, Andrea - LÓPEZ-GALÁN, Jorge Enrique. Evaluation of different methods for efficient extraction of hemicelluloses leaves and tops of sugarcane. In DYNA (Colombia). ISSN 00127353, 2018-01-01, 85, 204, pp. 18-27., Registrované v: SCOPUS
43. [1.2] PRIECCEL, Peter - PEREZ MEJIA, Javier Eduardo - CARÀ, Piera Demma - LOPEZ-SANCHEZ, Jose A. CHAPTER 8: Microwaves in the Catalytic Valorisation of Biomass Derivatives. In RSC Green Chemistry. ISSN 17577039, 2018-01-01, 2018-January, 56, pp. 243-299., Registrované v: SCOPUS
44. [1.2] RAMÍREZ, Vicente - XIONG, Guangyan - MASHIGUCHI, Kiyoshi - YAMAGUCHI, Shinjiro - PAULY, Markus. Growth- and stress-related defects associated with wall hypoacetylation are strigolactone-dependent. In Plant Direct, 2018-06-01, 2, 6, pp., Registrované v: SCOPUS
45. [1.2] XU, Wenjuan - LU, Junjie - CAI, Qinjie - ZHANG, Suping. The synergistic effect of catalyst and inhibitor on furfural production. In Taiyangneng Xuebao/Acta Energetica Sinica. ISSN 02540096, 2018-03-28, 39, 3, pp. 857-863., Registrované v: SCOPUS

ADCA174

EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Effect of ultrasound on the extractability of corn bran hemicelluloses. In Ultrasonics Sonochemistry, 2002, vol. 9, p. 225-229. ISSN 1350-4177. Citácie:

- [1.1] BONTO, Aldrin P. - CAMACHO, Ken Samuel I. - CAMACHO, Drexel H. Increased vitamin B-5 uptake capacity of ultrasonic treated milled rice: A new method for rice fortification. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 95, no., pp. 32-39., Registrované v: WOS
- [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
- [1.1] WANG, Zhenyu. The Study on Physicochemical Characteristics of Wood Treated by Ultrasound-assisted Extraction. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 9033-9052., Registrované v: WOS
- [1.2] BHATIA, Latika - CHANDEL, Anuj K. - SINGH, Akhilesh K. - SINGH, Om V. Biotechnological advances in lignocellulosic ethanol production. In Sustainable Biotechnology-Enzymatic Resources of Renewable Energy, 2018-01-01, pp. 57-82., Registrované v: SCOPUS
- [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In Food and Feed Safety Systems and Analysis, 2018-01-01, pp. 173-191., Registrované v: SCOPUS

ADCA175

EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - ALFOLDI, Juraj - HŘÍBALOVÁ, V. The immunologically active xylan from ultrasound-treated corn cobs: extractability, structure and properties. In Carbohydrate Polymers, 1998, vol. 37, p. 231-239. (1997: 0.956 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0144-8617.

Citácie:

- [1.1] ALU';DATT, Muhammad H. - GAMMOH, Sana - RABABAH, Taha - ALMOMANI, Mohammed - ALHAMAD, Mohammad N. - EREIFEJ, Khalil - ALMAJWAL, Ali - TAHAT, Asma - HUSSEIN, Neveen M. - ABOU NASSER, Sura. Preparation, characterization, nanostructures and bio functional analysis of sonicated protein co-precipitates from brewers'; spent grain and soybean flour. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 240, no., pp. 784-798., Registrované v: WOS
- [1.1] BASTOS, Rita - COELHO, Elisabete - COIMBRA, Manuel A. Arabinoxylans from cereal by-products: insights into structural features, recovery, and applications. In SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS. ISSN 2042-8049, 2018, vol., no., pp. 227-251., Registrované v: WOS

3. [1.1] TAVANANDI, Hrishikesh A. - DEVI, A. Chandralekha - RAGHAVARAO, K. S. M. S. A newer approach for the primary extraction of allophycocyanin with high purity and yield from dry biomass of *Arthrospira platensis*. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2018, vol. 204, no., pp. 162-174., Registrované v: WOS
4. [1.1] TAVANANDI, Hrishikesh A. - MITTAL, Rochak - CHANDRASEKHAR, Jampani - RAGHAVARAO, K. S. M. S. Simple and efficient method for extraction of C-Phycocyanin from dry biomass of *Arthrospira platensis*. In *ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS*. ISSN 2211-9264, 2018, vol. 31, no., pp. 239-251., Registrované v: WOS
5. [1.1] TUNGLAND, Bryan. Overview of Prebiotics: Membership, Physiological Effects and their Health Attributes. In *HUMAN MICROBIOTA IN HEALTH AND DISEASE: PATHOGENESIS TO THERAPY*, 2018, vol., no., pp. 289-348., Registrované v: WOS
- ADCA176 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - ALFOLDI, Juraj - BERTH, G. Structural and solution properties of corn cob heteroxylans. In *Carbohydrate Polymers*, 1992, vol. 19, p. 99-105. ISSN 0144-8617.
- Citácie:
1. [1.1] KISHANI, Saina - VILAPLANA, Francisco - XU, Wenyang - XU, Chunlin - WAGBERG, Lars. Solubility of Softwood Hemicelluloses. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 4, pp. 1245-1255., Registrované v: WOS
2. [1.2] MA, Jiliang - XIANG, Zhihua - LIN, Yuyang - PENG, Xinwen - SUN, Runcang. Preparation of Xylan-Based Catalyst and its Catalytic Synthesis of Benzoxanthene Derivatives. In *Huanan Ligong Daxue Xuebao/Journal of South China University of Technology (Natural Science)*. ISSN 1000565X, 2018-07-01, 46, 7, pp. 54-61., Registrované v: SCOPUS
- ADCA177 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - KAČURÁKOVÁ, Marta - ANTAL, Miroslav. Quaternized xylans - synthesis and structural characterization. In *Carbohydrate Polymers*, 1994, vol. 24, no. 4, p. 301-308. ISSN 0144-8617.
- Citácie:
1. [1.1] BAHRPAIMA, Khatereh - FATEHI, Pedram. Synthesis and Characterization of Carboxyethylated Lignosulfonate. In *CHEMSUSCHEM*. ISSN 1864-5631, 2018, vol. 11, no. 17, pp. 2967-2980., Registrované v: WOS
2. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
3. [1.1] VUOTI, Sauli - NARASIMHA, Kumar - REINIKAINEN, Kai. Green wastewater treatment flocculants and fixatives prepared from cellulose using high-consistency processing and deep eutectic solvents. In *JOURNAL OF WATER PROCESS ENGINEERING*. ISSN 2214-7144, 2018, vol. 26, no., pp. 83-91., Registrované v: WOS
4. [1.2] BAJPAI, Pratima. Biotechnology for pulp and paper processing. In *Biotechnology for Pulp and Paper Processing*, 2018-02-14, pp. 1-588., Registrované v: SCOPUS
- ADCA178 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V. - XU, C. - HOLMBOM, B. - SUNDBERG, A. - WILLFOR, S. Norway spruce galactoglucomannans exhibiting immunomodulating and radical-scavenging activities. In *International Journal of Biological Macromolecules*, 2008, vol. 42, p. 1-5. (2007: 1.578 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] HALAJ, Michal - PAULOVICOVA, Ema - PAULOVICOVA, Lucia - JANTOVA, Sona - CEPAK, Vladislav - LUKAVSKY, Jaromir - CAPEK, Peter. Biopolymer of *Dictyosphaerium chlorelloides* chemical characterization and biological effects. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 113, no., pp. 1248-1257., Registrované v: WOS
2. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS
3. [1.1] PITKANEN, Leena - HEINONEN, Marina - MIKKONEN, Kirsi S. Safety considerations of plant polysaccharides for food use: a case study on phenolic-rich softwood galactoglucomannan extract. In *FOOD & FUNCTION*. ISSN 2042-6496, 2018, vol. 9, no. 4, pp. 1931-1943., Registrované v: WOS
4. [1.2] CHHIKARA, Navnidhi - DEVI, Hidam Roshree - JAGLAN, Sundeep - SHARMA, Paras - GUPTA, Prerna - PANGHAL, Anil. Bioactive compounds, food applications and health benefits of *Parkia speciosa* (stinky beans): A review. In *Agriculture and Food Security*, 2018-07-09, 7, 1, pp., Registrované v: SCOPUS
5. [1.2] KUSHWAHA, Prem Prakash - TIWARI, Ashish - KUMAR, Shashank. Bioactive



- carbohydrates. In *Secondary Metabolite and Functional Food Components: Role in Health and Disease*, 2018-01-01, pp. 197-222., Registrované v: SCOPUS
- ADCA179 EBRINGEROVÁ, Anna - KARDOŠOVÁ, Alžbeta - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - HŘÍBALOVÁ, V. Immunomodulatory activity of acidic xylans in relation to their structural and molecular properties. In *International Journal of Biological Macromolecules*, 2002, vol. 30, p. 1-6. ISSN 0141-8130.
- Citácie:
- [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In *POLYMER GELS: SCIENCE AND FUNDAMENTALS*. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
  - [1.1] LI, Huixian - DONG, Zhou - LIU, Xiaojia - CHEN, Huamin - LAI, Furao - ZHANG, Mengmeng. Structure characterization of two novel polysaccharides from *Colocasia esculenta* (taro) and a comparative study of their immunomodulatory activities. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 42, no., pp. 47-57., Registrované v: WOS
  - [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
  - [1.1] MAHINROOSTA, Mostafa - FARSANGI, Zohreh Jomeh - ALLAHVERDI, Ali - SHAKOORI, Zahra. Hydrogels as intelligent materials: A brief review of synthesis, properties and applications. In *MATERIALS TODAY CHEMISTRY*. ISSN 2468-5194, 2018, vol. 8, no., pp. 42-55., Registrované v: WOS
  - [1.1] ZHANG, Huijuan - WANG, Hongna - CAO, Xinran - WANG, Jing. Preparation and modification of high dietary fiber flour: A review. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2018, vol. 113, no., pp. 24-35., Registrované v: WOS
  - [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
- ADCA180 EBRINGEROVÁ, Anna - KRAMÁR, A. - RENDOS, F. - DOMANSKÝ, R. Stepwise extraction of hemicellulose from wood of white beech (*Carpinus betulus*). In *Holzforschung*, 1967, vol. 21, p. 74-77. ISSN 0018-3830.
- Citácie:
- [1.1] ARUMUGAM, Nanthakumar - BIELY, Peter - PUCHART, Vladimir - SINGH, Suren - PILLAI, Santhosh. Structure of peanut shell xylan and its conversion to oligosaccharides. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 72, no., pp. 124-129., Registrované v: WOS
  - [1.1] SUCHOVA, Katarina - KOZMON, Stanislav - PUCHART, Vladimir - MALOVIKOVA, Anna - HOFF, Tine - KROGH, Kristian B. R. Morkeberg - BIELY, Peter. Glucuronoxylan recognition by GH 30 xylanases: A study with enzyme and substrate variants. In *ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS*. ISSN 0003-9861, 2018, vol. 643, no., pp. 42-49., Registrované v: WOS
- ADCA181 EBRINGEROVÁ, Anna - SROKOVÁ, Iva - TALÁBA, P. - KAČURÁKOVÁ, Marta - HROMÁDKOVÁ, Zdenka. Amphiphilic beechwood glucuronoxylan derivatives. In *Journal of Applied Polymer Science*, 1998, vol. 67, p. 1523-1530. (1997: 0.841 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0021-8995.
- Citácie:
- [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS
- ADCA182 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. An overview on the application of ultrasound in extraction, separation and purification of plant polysaccharides. In *Central European Journal of Chemistry*, 2010, vol. 8, no. 2, p. 243-257. (2009: 1.065 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1895-1066.
- Citácie:
- [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In *THERAPEUTIC FOODS*, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS
  - [1.1] HMELOV, Andrey B. - ZVYAGINTSEVA, Tatiana N. - SHEVCHENKO, Natalia M. - RASIN, Anton B. - ERMAKOVA, Svetlana P. Ultrasound-assisted extraction of polysaccharides

- from brown alga *Fucus evanescens*. Structure and biological activity of the new fucoidan fractions. In *JOURNAL OF APPLIED PHYCOLOGY*. ISSN 0921-8971, 2018, vol. 30, no. 3, pp. 2039-2046., Registrované v: WOS
3. [1.1] LIN, Tingting - LIU, Yan - LAI, Changjiangsheng - YANG, Tingting - XIE, Junbo - ZHANG, Yanqing. The effect of ultrasound assisted extraction on structural composition, antioxidant activity and immunoregulation of polysaccharides from *Ziziphus jujuba* Mill var. *spinosa* seeds. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 150-159., Registrované v: WOS
4. [1.1] MASON, T. J. - VINATORU, M. Ultrasonically Assisted Extraction in Food Processing and the Challenges of Integrating Ultrasound into the Food Industry. In *ULTRASOUND IN FOOD PROCESSING: RECENT ADVANCES*, 2017, vol., no., pp. 329-353., Registrované v: WOS
5. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
6. [1.1] YAN, Jing-Kun - WANG, Yao-Yao - QIU, Wen-Yi - WANG, Zhen-Bin - MA, Haile. Ultrasound synergized with three-phase partitioning for extraction and separation of *Corbicula fluminea* polysaccharides and possible relevant mechanisms. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2018, vol. 40, no., pp. 128-134., Registrované v: WOS
7. [1.2] MARTINS, Rodrigo M. - FREITAS, Luis Victor D. - MONTES, Ana Carolina R. - FREITAS, Luis Alexandre P. The extraction of bioactives from plants. In *Recent Developments in Phytomedicine Technology*, 2017-01-01, pp. 93-123., Registrované v: SCOPUS
8. [1.2] WANG, Dihua - WANG, Zhihe - SHI, Wenzheng - QI, Ziyuan - ZHANG, Hua - CHEN, Jingwen. Techniques of salted jellyfish dealumination by optimized ultrasonic-assisted methodology. In *Journal of Fisheries of China*. ISSN 10000615, 2018-12-01, 42, 12, pp. 1977-1987., Registrované v: SCOPUS

ADCA183

EBRINGEROVÁ, Anna. Structural diversity and application potential of hemicelluloses. In *Macromolecular Symposia*, 2006, vol. 232, p. 1-12. (2005: 0.913 - IF). ISSN 1022-1360.

Citácie:

1. [1.1] AKIL, Youssef - CASTELLANI, Romain - LEHNEN, Ralph - BUDTOVA, Tatiana - SAAKE, Bodo. Hydroxyalkylation of xylan using propylene carbonate: comparison of products from homo- and heterogeneous synthesis by HRMAS NMR and rheology. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 217-231., Registrované v: WOS
2. [1.1] ANDEREZ FERNANDEZ, Maria - RISSANEN, Jussi - NEBREDÁ, Andrea Perez - XU, Chunlin - WILLFOR, Stefan - GARCIA SERNA, Juan - SALMI, Tapio - GRENMAN, Henrik. Hemicelluloses from stone pine, holm oak, and Norway spruce with subcritical water extraction comparative study with characterization and kinetics. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2018, vol. 133, no., pp. 647-657., Registrované v: WOS
3. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Structural diversity of alkali-soluble polysaccharides from the fruit cell walls of *tucuma* (*Astrocaryum aculeatum*), a commelinid monocotyledon from the family *Arecaceae*. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 118, no., pp. 356-361., Registrované v: WOS
4. [1.1] DELBECQ, Frederic - WANG, Yantao - MURALIDHARA, Anitha - EL OUARDI, Karim - MARLAIR, Guy - LEN, Christophe. Hydrolysis of Hemicellulose and Derivatives-A Review of Recent Advances in the Production of Furfural. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS
5. [1.1] DERRIEN, Elie - AHMAR, Mohammed - MARTIN-SISTERON, Emilie - RAFFIN, Guy - QUENEAU, Yves - MARION, Philippe - BEYERLE, Marlene - PINEL, Catherine - BESSON, Michele. Oxidation of Aldoses Contained in Softwood Hemicellulose Acid Hydrolysates into Aldaric Acids under Alkaline or Noncontrolled pH Conditions. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2018, vol. 57, no. 13, pp. 4543-4552., Registrované v: WOS
6. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
7. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-min. Effect of Delignification of Hemicellulose Extraction from Switchgrass, Poplar, and Pine and Its Effect on Enzymatic Convertibility of Cellulose-rich Residues. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 4946-4963., Registrované v: WOS
8. [1.1] JORDAN, Douglas B. - STOLLER, J. Rose - KIBBLEWHITE, Rena E. - CHAN, Victor J. -

- LEE, Charles C. - WAGSCHAL, Kurt. Absence or presence of metal ion activation in two structurally similar GH43 beta-xylosidases. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2018, vol. 114, no., pp. 29-32., Registrované v: WOS
9. [1.1] KOBAYASHI, Hirokazu - FUKUOKA, Atsushi. Development of Solid Catalyst-Solid Substrate Reactions for Efficient Utilization of Biomass. In *BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN*. ISSN 0009-2673, 2018, vol. 91, no. 1, pp. 29-43., Registrované v: WOS
10. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In *POLYMER GELS: SCIENCE AND FUNDAMENTALS*. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
11. [1.1] MEENTS, Miranda J. - WATANABE, Yoichiro - SAMUELS, A. Lacey. The cell biology of secondary cell wall biosynthesis. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2018, vol. 121, no. 6, pp. 1107-1125., Registrované v: WOS
12. [1.1] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2593-2635., Registrované v: WOS
13. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS
14. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
15. [1.1] PILLEGOWDA, Manohar - PERIYASAMY, Ganga. DFT studies on interaction between bimetallic [Au<sub>2</sub>M] clusters and cellobiose. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2018, vol. 1129, no., pp. 26-36., Registrované v: WOS
16. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, Volume: 11 Article Number: 74, Registrované v: WOS
17. [1.1] VAN DE WOUWER, Dorien - BOERJAN, Wout - VANHOLME, Bartel. Plant cell wall sugars: sweeteners for a bio-based economy. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2018, vol. 164, no. 1, pp. 27-44., Registrované v: WOS
18. [1.1] XU, Youjie - LI, Jun - MOORE, Connor - XIN, Zhanguo - WANG, Donghai. Physico-chemical characterization of pedigreed sorghum mutant stalks for biofuel production. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 124, no., pp. 806-811., Registrované v: WOS
19. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E. coli* B121. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS
20. [1.2] BOKHARY, Alnour - TIKKA, Adrianna - LEITCH, Mathew - LIAO, Baoqiang. Membrane fouling prevention and control strategies in pulp and paper industry applications: A review. In *Journal of Membrane Science and Research*, 2018-09-01, 4, 4, pp. 181-197., Registrované v: SCOPUS

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EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - SASINKOVÁ, Vlasta. Chemical valorization of agricultural by-products: isolation and characterization of xylan-based antioxidants from almond shell biomass. In *BioResources*, 2008, vol. 3, p. 60-70. ISSN 1930-2126.

Citácie:

1. [1.1] DE HOYOS-MARTINEZ, Pedro L. - ERDOCIA, Xabier - CHARRIER-EL BOUHTOURY, Fatima - PRADO, Raquel - LABIDI, Jalel. Multistage treatment of almonds waste biomass: Characterization and assessment of the potential applications of raw material and products. In *WASTE MANAGEMENT*. ISSN 0956-053X, 2018, vol. 80, no., pp. 40-50., Registrované v: WOS
2. [1.1] LI, Xuemin - LIU, Yinan - HAO, Jianxiu - WANG, Weihong. Study of Almond Shell Characteristics. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 9, pp., Registrované v: WOS
3. [1.1] QUILES-CARRILLO, L. - MONTANES, N. - SAMMON, C. - BALART, R. - TORRES-GINER, S. Compatibilization of highly sustainable polylactide/almond shell flour composites by



- reactive extrusion with maleinized linseed oil. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 111, no., pp. 878-888., Registrované v: WOS*
4. [3.1] Abejón, R. A Bibliometric Study of Scientific Publications regarding Hemicellulose Valorization during the 2000–2016 Period: Identification of Alternatives and Hot Topics. In: *CHEMENGINEERING*, 2018, vol. 2, issue 1, article number 7, Pages: 1-31, ISSN 1385-8947.
- ADCA185 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Efficient activation of carboxyl polysaccharides for the preparation of conjugates. In *Carbohydrate Polymers*, 2007, vol. 68, p. 187-190. (2006: 1.784 - IF). ISSN 0144-8617.
- Citácie:
1. [1.1] ELSCHNER, Thomas - OBST, Franziska - HEINZE, Thomas. Furfuryl- and Maleimido Polysaccharides: Synthetic Strategies Toward Functional Biomaterials. In *MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187*, 2018, vol. 18, no. 11, pp., Registrované v: WOS
2. [1.1] RAGHUPATHI, Kishore - SKINNER, Matthew - CHANG, Grace - CRAWLEY, Cristin - YOSHIDA-MORIGUCHI, Takako - PIPENHAGEN, Peter - ZHU, Yunxiang - AVILA, Luis Z. - MILLER, Robert J. - DHAL, Pradeep K. Hyaluronic Acid Microgels as Intracellular Endosomolysis Reagents. In *ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878*, 2018, vol. 4, no. 2, pp. 558-565., Registrované v: WOS
- ADCA186 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - BYSTRICKÝ, Slavomír. Comparison of EDC and DMTMM efficiency in glycoconjugate. In *International Journal of Biological Macromolecules*, 2013, vol. 60, p. 325-327. (2012: 2.596 - IF, 0.796 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- Citácie:
1. [1.1] BAIER, Mischa - RUPPERTZ, Jana L. - PFLEIDERER, Moritz M. - BLAUM, Baerbel S. - HARTMANN, Laura. Synthesis of highly controlled carbohydrate-polymer based hybrid structures by combining heparin fragments and sialic acid derivatives, and solid phase polymer synthesis. In *CHEMICAL COMMUNICATIONS. ISSN 1359-7345*, 2018, vol. 54, no. 74, pp. 10487-10490., Registrované v: WOS
2. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In *MASS SPECTROMETRY REVIEWS. ISSN 0277-7037*, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS
3. [1.1] LABRE, Flavien - MATHIEU, Sophie - CHAUD, Patricia - MORVAN, Pierre-Yves - VALLEE, Romuald - HELBERT, William - FORT, Sebastien. DMTMM-mediated amidation of algal oligosaccharides aimed at modulating their interaction with proteins. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617*, 2018, vol. 184, no., pp. 427-434., Registrované v: WOS
- ADCA187 FARKAŠ, Pavol - KORCOVÁ, Jana, Vráblová - KRONEK, Juraj - BYSTRICKÝ, Slavomír. Preparation of synthetic polyoxazoline based carrier and *Vibrio cholerae* O-specific polysaccharide conjugate vaccine. In *European Journal of Medicinal Chemistry*, 2010, vol. 45, p. 795-799. (2009: 3.269 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0223-5234.
- Citácie:
1. [1.1] VAKILI, A. - GARGARI, S.L.M. - NAZARIAN, S. - AMANI, J. Designing and Expression of Recombinant Chimeric Protein Containing CtxB and OmpW from *Vibrio Cholerae* and Evaluation of Its Immunogenicity. In *IRANIAN JOURNAL OF IMMUNOLOGY. ISSN 1735-1383*, SUM 2018, vol. 15, no. 3, p. 207-220., Registrované v: WOS
- ADCA188 FARKAŠ, Vladimír - BAUER, Štefan - VAGABOV, V.M. Biosynthesis of yeast mannan. Independent formation of carbohydrate moieties in the mannoprotein molecule. In *Biochimica et Biophysica Acta*, 1976, vol. 428, p. 583-590.
- Citácie:
1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS
- ADCA189 FARKAŠ, Vladimír. Structure and biosynthesis of fungal cell walls: methodological approaches. In *Folia Microbiologica*, 2003, vol. 48, p. 469-478. (2002: 0.979 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0015-5632.
- Citácie:
1. [1.1] KUCHERYAVYKH, Lilia Y. - KUCHERYAVYKH, Yuriy V. - WASHINGTON, A. Valance - INYUSHIN, Mikhail Y. Amyloid Beta Peptide Is Released during Thrombosis in the Skin. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067*, 2018, vol. 19, no. 6, pp., Registrované v: WOS
2. [1.2] DWAISH, Ahmed S. - YOUSIF, Dina Y. Mohammed - ALWAN, Adel Hamdan - LEFTA, Siham N. Anti-dermatophytes activity of Macroalgal extracts (*Chara vulgaris*) isolated from Baghdad City-Iraq. In *Journal of Global Pharma Technology*, 2018-01-01, 10, 3, pp. 759-766., Registrované v: SCOPUS

- ADCA190 FARKAŠ, Vladimír. Biosynthesis of cell walls in fungi. In *Microbiological Reviews*, 1979, vol. 43, p. 117-144. ISSN 0146-0749.  
Citácie:  
1. [1.1] *HOSHI, Toru - YAMAZAKI, Kazuyoshi - SATO, Yuki - SHIDA, Takaya - AOYAGI, Takao. Production of hollow-type spherical bacterial cellulose as a controlled release device by newly designed floating cultivation. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 10, pp., Registrované v: WOS*  
2. [1.1] *TAKEDA, Minoru - KONDO, Keiko - SANDA, Shuhei - KAN, Daisuke - BORGES, Isabele Kazahaya - SUZUKI, Ichiro - KATAHIRA, Masato. Enzymatic degradation of beta-1,4-linked N-acetylglucosaminoglycan prepared from Thiothrix nivea. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 323-328., Registrované v: WOS*
- ADCA191 FARKAŠ, Vladimír - VAGABOV, V.M. - BAUER, Štefan. Biosynthesis of yeast mannan. Diversity of mannosyltransferase in the mannan-synthetizing enzyme system from yeast. In *Biochimica et Biophysica Acta*, 1976, vol. 428, p. 573-582.  
Citácie:  
1. [1.1] *DEL BARRIO-GALAN, Ruben - UBEDA, Cristina - GIL, Mariona - SIECZKOWSKI, Nathalie - PENA-NEIRA, Alvaro. Different application dosages of a specific inactivated dry yeast (SIDY): effect on the polysaccharides, phenolic and volatile contents and color of Sauvignon blanc wines. In OENO ONE. ISSN 2494-1271, 2018, vol. 52, no. 4, pp. 333-346., Registrované v: WOS*  
2. [1.2] *GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS*
- ADCA192 FEDORŇKO, Michal - KONIGSTEIN, Jozef - LINEK, Kazimír. Polarographic and preparative electroreduction of D,L-glyceraldehyde and dihydroxyacetone. In *Collection of Czechoslovak Chemical Communications*, 1965, vol. 30, p. 4297-4306. ISSN 0010-0765.  
Citácie:  
1. [1.1] *JAMES, Olusola O. - SAUTER, Waldemar - SCHROEDER, Uwe. Towards selective electrochemical conversion of glycerol to 1,3-propanediol. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 20, pp. 10818-10827., Registrované v: WOS*
- ADCA193 FERENČÍK, Miroslav - KOTULOVÁ, D. - MASLER, Ladislav - BERGENDI, L. - ŠANDULA, Jozef - ŠTEFANOVIČ, J. Modulatory effect of glucans on the functional and biochemical activities of guinea-pig macrophages. In *Methods and Findings in Experimental and Clinical Pharmacology*, 1986, vol. 8, p. 163-166. ISSN 0379-0355.  
Citácie:  
1. [1.1] *EYIGOR, Aysen - BAHADORI, Fatemeh - YENIGUN, Vildan Betul - EROGLU, Mehmet Sayip. Beta-Glucan based temperature responsive hydrogels for 5-ASA delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 201, no., pp. 454-463., Registrované v: WOS*
- ADCA194 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana, Blahutová - GEMEINER, Peter - TKÁČ, Ján. Electrochemistry of bilirubin oxidase and its use in preparation of a low cost enzymatic biofuel cell based on a renewable composite binder chitosan. In *Electrochimica Acta*, 2013, vol. 87, p. 366-374. (2012: 3.777 - IF, 1.651 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0013-4686.  
Citácie:  
1. [1.1] *BOLIBOK, Paulina - ROSZEK, Katarzyna - WISNIEWSKI, Marek. Chemical and Biochemical Approach to Make a Perfect Biocatalytic System on Carbonaceous Matrices. In ENZYME NANOARCHITECTURES: ENZYMES ARMORED WITH GRAPHENE. ISSN 0076-6879, 2018, vol. 609, no., pp. 221-245., Registrované v: WOS*  
2. [1.1] *LIU, Yuxiang - ZHANG, Jin - CHENG, Yi - JIANG, San Ping. Effect of Carbon Nanotubes on Direct Electron Transfer and Electrocatalytic Activity of Immobilized Glucose Oxidase. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 1, pp. 667-676., Registrované v: WOS*  
3. [1.1] *MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS*  
4. [1.1] *SAKAI, Kento - XIA, Hong-qi - KITAZUMI, Yuki - SHIRAI, Osamu - KANO, Kenji. Assembly of direct-electron-transfer-type bioelectrodes with high performance. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2018, vol. 271, no., pp. 305-311., Registrované v: WOS*
- ADCA195 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana, Blahutová - TOMČÍK, Peter - GEMEINER, Peter - TKÁČ, Ján. A hyaluronic acid dispersed carbon nanotube electrode used for a mediatorless NADH sensing and biosensing. In *Talanta*, 2011, vol. 84, p. 355-361. (2010: 3.722 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0039-9140.  
Citácie:  
1. [1.1] *SIMONAZZI, Analía - CID, Alicia G. - VILLEGAS, Mercedes - ROMERO, Analía I. -*

- PALMA, Santiago D. - BERMUDEZ, Jose M. Nanotechnology applications in drug controlled release. In *DRUG TARGETING AND STIMULI SENSITIVE DRUG DELIVERY SYSTEMS*, 2018, vol., no., pp. 81-116., Registrované v: WOS
- ADCA196 FILIP, Jaroslav - TKÁČ, Ján. Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. In *Electrochemistry Communications*, 2014, vol. 49, p. 70-74. (2013: 4.287 - IF, 1.811 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1388-2481.
- Citácie:
- [1.1] KONDRATOWICZ, Izabela - NADOLSKA, Malgorzata - SAHIN, Samet - LAPINSKI, Marcin - PRZESNIAK-WELENC, Marta - SAWCZAK, Mirosław - YU, Eileen H. - SADOWSKI, Wojciech - ZELECHOWSKA, Kamila. Tailoring properties of reduced graphene oxide by oxygen plasma treatment. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2018, vol. 440, no., pp. 651-659., Registrované v: WOS
  - [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
  - [1.2] SHEN, Fei - CAO, Xianyi - PANKRATOV, Dmitry - ZHANG, Jingdong - CHI, Qijin. Nanoengineering of Graphene-Supported Functional Composites for Performance-Enhanced Enzymatic Biofuel Cells. In *Graphene Bioelectronics*, 2018-01-01, pp. 219-240., Registrované v: SCOPUS
- ADCA197 FILIP, Jaroslav - TKÁČ, Ján. Is graphene worth using in biofuel cells? In *Electrochimica Acta*, 2014, vol. 136, p. 340-354. (2013: 4.086 - IF, 1.435 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0013-4686.
- Citácie:
- [1.1] BRUN, Nicolas - BACCOUR, Mohamed - FLEXER, Victoria. Nanocarbon-Based Enzymatic Electrodes. In *FUNCTIONAL ELECTRODES FOR ENZYMIC AND MICROBIAL ELECTROCHEMICAL SYSTEMS*, 2018, vol., no., pp. 341-379., Registrované v: WOS
  - [1.1] IBRAHIM, Amgad Ahmed Ali - IBRAHIM, Nik Noor Nabilah Md - CENTENO, Anthony - HASHIM, Abdul Manaf. A Short Review of Architecture and Computational Analysis in the Design of Graphene-based Bioelectronic Devices. In *SENSORS AND MATERIALS*. ISSN 0914-4935, 2018, vol. 30, no. 6, pp. 1231-1252., Registrované v: WOS
  - [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
  - [1.1] MOHANAKRISHNA, G. - KALATHIL, Shafeer - PANT, Deepak. Reactor Design for Bioelectrochemical Systems. In *MICROBIAL FUEL CELL: A BIOELECTROCHEMICAL SYSTEM THAT CONVERTS WASTE TO WATTS*, 2018, vol., no., pp. 209-227., Registrované v: WOS
  - [1.1] ROWLEY-NEALE, Samuel J. - RANDVIIR, Edward P. - DENA, Ahmed S. Abo - BANKS, Craig E. An overview of recent applications of reduced graphene oxide as a basis of electroanalytical sensing platforms. In *APPLIED MATERIALS TODAY*. ISSN 2352-9407, 2018, vol. 10, no., pp. 218-226., Registrované v: WOS
  - [1.1] TENCHURIN, Timur K. - RESHETILOV, Anatoly N. - PLEKHANOVA, Yuliya V. - TARASOV, Sergey E. - BYKOV, Aleksandr G. - GUTOROV, Michail A. - ALFEROV, Sergey V. - CHVALUN, Sergei N. - OREKHOV, Anton S. - SHEPELEV, Alexey D. - GOTOVTSEV, Pavel M. - VASILOV, Raif G. Carbon superfine materials as a promising material for *Gluconobacter oxydans* based microbial fuel cells. In *INTERNATIONAL CONFERENCE ON ENERGY ENGINEERING AND ENVIRONMENTAL PROTECTION (EEEP2017)*. ISSN 1755-1307, 2018, vol. 121, no., pp., Registrované v: WOS
- ADCA198 FILIP, Jaroslav - MONOŠÍK, Rastislav - TKÁČ, Ján. Poly(lactic-acid)-based nanocomposite for construction of efficient bilirubin oxidase-based biocathodes and stable biofuel cells. In *International Journal of Electrochemical Science*, 2014, vol. 9, p. 2491-2560. (2013: 1.956 - IF, 0.522 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1452-3981.
- Citácie:
- [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
- ADCA199 FILIP, Jaroslav - ECKSTEIN ANDICSOVÁ, Anita - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Immobilization of bilirubin oxidase on graphene oxide flakes with different negative charge density for oxygen reduction. The effect of GO charge density on enzyme coverage, electron transfer rate and current density. In *Biosensors & Bioelectronics*, 2017, vol. 89, p. 384-389. (2016: 7.780 - IF, Q1 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0956-5663.
- Citácie:
- [1.1] KONDRATOWICZ, Izabela - NADOLSKA, Malgorzata - SAHIN, Samet - LAPINSKI,



Marcin - PRZESNIAK-WELENC, Marta - SAWCZAK, Mirosław - YU, Eileen H. - SADOWSKI, Wojciech - ZELECHOWSKA, Kamila. Tailoring properties of reduced graphene oxide by oxygen plasma treatment. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2018, vol. 440, no., pp. 651-659., Registrované v: WOS

2. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS

3. [1.1] PENA-BAHAMONDE, Janire - NGUYEN, Hang N. - FANOURLAKIS, Sofia K. - RODRIGUES, Debora F. Recent advances in graphene-based biosensor technology with applications in life sciences. In *JOURNAL OF NANOBIO TECHNOLOGY*. ISSN 1477-3155, 2018, vol. 16, no., pp., Registrované v: WOS

4. [1.1] YANG, Shengjiang - LIU, Jie - QUAN, Xuebo - ZHOU, Jian. Bilirubin Oxidase Adsorption onto Charged Self-Assembled Monolayers: Insights from Multiscale Simulations. In *LANGMUIR*. ISSN 0743-7463, 2018, vol. 34, no. 33, pp. 9818-9828., Registrované v: WOS

5. [1.1] YU, Jiawen - MA, Yanan - YANG, Congxing - ZHANG, Hang - LIU, Lijun - SU, Jun - GAO, Yihua. SERS-active composite based on rGO and Au/Ag core-shell nanorods for analytical applications. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 254, no., pp. 182-188., Registrované v: WOS

ADCA200 FILIP, Jaroslav - TKÁČ, Ján. The pH dependence of the cathodic peak potential of the active sites in bilirubin oxidase. In *Bioelectrochemistry*, 2014, vol. 96, p. 14-20. (2013: 3.870 - IF, 0.947 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1567-5394.

Citácie:

1. [1.1] CHUMILLAS, Sara - MAESTRO, Beatriz - FELIU, Juan M. - CLIMENT, Victor. Comprehensive Study of the Enzymatic Catalysis of the Electrochemical Oxygen Reduction Reaction (ORR) by Immobilized Copper Efflux Oxidase (CueO) From *Escherichia coli*. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS

2. [1.1] LUCCA, Bruno Gabriel - PETRONI, Jacqueline Marques - FERREIRA, Valdir Souza. Electrochemical study and voltammetric determination of sodium diethyldithiocarbamate using silver nanoparticles solid amalgam electrode. In *INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY*. ISSN 0306-7319, 2018, vol. 98, no. 9, pp. 859-873., Registrované v: WOS

3. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS

4. [1.1] ZENG, Han - ZHANG, Yu He - MA, Ting Mei - HUO, Wen Shan. Investigation on Electrochemical Behavior and Catalytic Function of Glassy Carbon Electrode on the Basis of Magnetic Nano-particle with Simultaneous Incorporation of Myoglobin and Electron Mediator. In *JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS*. ISSN 1574-1443, 2018, vol. 28, no. 6, pp. 2730-2741., Registrované v: WOS

ADCA201 FILIP, Jaroslav - ZAVAHIR, Sifani - BELICKÁ, Ľudmila, Kľuková, TKÁČ, Ján - KASÁK, Peter. Immobilization of concanavalin A lectin on a reduced graphene oxide-thionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. In *Journal of Electroanalytical Chemistry*, 2017, vol. 794, p. 156-163. (2016: 3.012 - IF, Q2 - JCR, 0.752 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0022-0728.

Citácie:

1. [1.1] TORER, Hakan - AYDIN, Elif Burcu - SEZGINTURK, Mustafa Kemal. A label-free electrochemical biosensor for direct detection of RACK 1 by using disposable, low-cost and reproducible ITO based electrode. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2018, vol. 1024, no., pp. 65-72., Registrované v: WOS

ADCA202 FRAŇOVÁ, Lucia - PUCHART, Vladimír - BIELY, Peter.  $\beta$ -Glucuronidase-coupled assays of glucuronoyl esterases. In *Analytical Biochemistry*, 2016, vol. 510, p. 114-119. (2015: 2.243 - IF, Q2 - JCR, 0.728 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0003-2697.

Citácie:

1. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGe glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS

ADCA203 FREIRE, F. - CUESTA, I. - CORZANA, F. - REVUELTA, J. - GONZÁLEZ, C. - HRICOVÍNÍ, Miloš - BASTIDA, A. - JIMÉNEZ-BARBERO, J. - ASENSIO, J.L. A simple NMR analysis of the protonation equilibrium that accompanies aminoglycoside recognition: Dramatic alternations in the neomycin-B protonation state upon binding to a 23-mer RNA aptamer. In *Chemical Communications*, 2007, issue 2, p. 174-176.

Citácie:

1. [1.1] KULIK, Marta - MORI, Takaharu - SUGITA, Yuji - TRYLSKA, Joanna. *Molecular mechanisms for dynamic regulation of N1 riboswitch by aminoglycosides*. In *NUCLEIC ACIDS RESEARCH*. ISSN 0305-1048, 2018, vol. 46, no. 19, pp. 9960-9970., Registrované v: WOS
2. [1.1] SUN, Peili - RAO, Danling - ZHANG, Pu - QIN, Yujun - GUO, Zhi-Xin. *Protonation behaviour of 2-phenyl-1,3-diazaazulene derivatives*. In *TETRAHEDRON*. ISSN 0040-4020, 2018, vol. 74, no. 7, pp. 731-739., Registrované v: WOS
- ADCA204 FRINGANT, C. - TVAROŠKA, Igor - MAZEAU, K. - RINAUDO, M. - DESBRIERES, J. *Hydration of  $\alpha$ -maltose and amylose: Molecular modelling and thermodynamics study*. In *Carbohydrate Research*, 1995, vol. 278, p. 27-41. (1995 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] BALACHANDRAMOHAN, Jayachandrabal - ANANDAN, Sambandam - SIVASANKAR, Thirugnanasambandam. *A simple approach for the sonochemical synthesis of Fe<sub>3</sub>O<sub>4</sub>-guar gum nanocomposite and its catalytic reduction of p-nitroaniline*. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2018, vol. 40, no., pp. 1-10., Registrované v: WOS
2. [1.1] BALACHANDRAMOHAN, Jayachandrabal - SIVASANKAR, Thirugnanasambandam. *Ultrasound assisted synthesis of guar gum-zero valent iron nanocomposites as a novel catalyst for the treatment of pollutants*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 41-50., Registrované v: WOS
- ADCA205 FUSKA, J. - UHRÍN, Dušan - PROKSA, Bohumil - VOTICKÝ, Zdeno - RUPPELDT, J. *The structure of vermistatin a new metabolite from Penicillium vermiculatum*. In *Journal of Antibiotics*, 1986, vol. 39, p. 1605-1608. ISSN 0021-8820.
- Citácie:
1. [1.1] SALVATORE, Maria Michela - DELLAGRECA, Marina - NICOLETTI, Rosario - SALVATORE, Francesco - VINALE, Francesco - NAVIGLIO, Daniele - ANDOLFI, Anna. *Talarodiolide, a New 12-Membered Macrodilide, and GC/MS Investigation of Culture Filtrate and Mycelial Extracts of Talaromyces pinophilus*. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 4, pp., Registrované v: WOS
2. [1.2] HE, Xiao Ping - SU, Deng Quan - DING, Li Jian - HE, Shan. *Secondary metabolites of co-culture of Alternaria alternata YX-25 and Streptomyces exfoliatus YX-32*. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-12-28, 49, 24, pp. 5772-5779., Registrované v: SCOPUS
- ADCA206 GAJDOŠOVÁ, A. - PETRULÁKOVÁ, Z. - HAVRLENTOVÁ, M. - ČERVENÁ, V. - HOZOVÁ, B. - ŠTURDÍK, E. - KOGAN, Grigorij. *The content of water-soluble and water-insoluble beta-D-glucans in selected oats and barley varieties*. In *Carbohydrate Polymers*, 2007, vol. 70, s. 46-52. (2006: 1.784 - IF). ISSN 0144-8617.
- Citácie:
1. [1.1] Tsandekova, O.L. Neverova, O.A. *The peculiarities of hulled barley in the evaluation of its productivity and quality of grain (review)*. In: *Zernovoe khozyaistvo Rossii Source: Зерновое хозяйство России (2017) Issue: 5 p. 12-15*, Registrované v: WOS
- ADCA207 GAJDOŠOVÁ, Silvia - SPÍCHAL, Lukáš - KAMÍNEK, Miroslav - HOYEROVÁ, Klára - NOVÁK, Ondřej - DOBREV, Petre I. - GALUSZKA, Petr - KLÍMA, Petr - GAUDINOVÁ, Alena - ŽIŽKOVÁ, Eva - HANUŠ, Jan - DANČÁK, Martin - TRÁVNÍČEK, Bohumil - PEŠEK, Bedřich - KRUPÍČKA, Martin - VAŇKOVÁ, Radomíra - STRNAD, Miroslav - MOTYKA, Václav. *Distribution, biological activities, metabolism, and the conceivable function of cis-zeatin-type cytokinins in plants*. In *Journal of Experimental Botany*, 2011, vol. 62, p. 2827-2840. (2010: 4.818 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0022-0957.
- Citácie:
1. [1.1] HOENIG, Martin - PLIHALOVA, Lucie - HUSICKOVA, Alexandra - NISLER, Jaroslav - DOLEZAL, Karel. *Role of Cytokinins in Senescence, Antioxidant Defence and Photosynthesis*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 12, pp., Registrované v: WOS
2. [1.1] HU, Bin - SAKAKIBARA, Hitoshi - KOJIMA, Mikiko - TAKEBAYASHI, Yumiko - BUSSKAMP, Johanna - LANGER, Gitta J. - PETERS, Franziska S. - SCHUMACHER, Joerg - EIBLMEIER, Monika - KREUZWIESER, Juergen - RENNENBERG, Heinz. *Consequences of Sphaeropsis tip blight disease for the phytohormone profile and antioxidative metabolism of its pine host*. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2018, vol. 41, no. 4, pp. 737-754., Registrované v: WOS
3. [1.1] JANECKOVA, Helena - HUSICKOVA, Alexandra - FERRETTI, Ursula - PRCINA, Maros - PILAROVA, Eva - PLACKOVA, Lenka - POSPISIL, Pavel - DOLEZAL, Karel - SPUNDOVA, Martina. *The interplay between cytokinins and light during senescence in detached Arabidopsis leaves*. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2018, vol. 41, no. 8, pp. 1870-1885., Registrované v: WOS
4. [1.1] KIEBER, Joseph J. - SCHALLER, G. Eric. *Cytokinin signaling in plant development*. In

- DEVELOPMENT. ISSN 0950-1991, 2018, vol. 145, no. 4, pp., Registrované v: WOS
5. [1.1] KOLACHEVSKAYA, O. O. - SERGEEVA, L. I. - GETMAN, I. A. - LOMIN, S. N. - SAVELIEVA, E. M. - ROMANOV, G. A. Core features of the hormonal status in in vitro grown potato plants. In PLANT SIGNALING & BEHAVIOR. ISSN 1559-2316, 2018, vol. 13, no. 5, pp., Registrované v: WOS
6. [1.1] NISHII, Kanae - WRIGHT, Frank - CHEN, Yun-Yu - MOLLER, Michael. Tangled history of a multigene family: The evolution of ISOPENTENYLTRANSFERASE genes. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
7. [1.1] PRATAMA, S. P. - YUNUS, A. - PURWANTO, E. - WIDYASTUTI, Y. The effect of cutting origin and organic plant growth regulator on the growth of Daun Ungu (*Graptophyllum pictum*) through stem cutting method. In 4TH INTERNATIONAL CONFERENCE ON SUSTAINABLE AGRICULTURE AND ENVIRONMENT (4TH ICSAE). ISSN 1755-1307, 2018, vol. 142, no., pp., Registrované v: WOS
8. [1.1] SEGOBIN, Mark - KISIALA, Anna - NOBLE, Adam - KAPLAN, David - BRUNETTI, Craig - EMERY, R. J. Neil. Canis familiaris tissues are characterized by different profiles of cytokinins typical of the tRNA degradation pathway. In FASEB JOURNAL. ISSN 0892-6638, 2018, vol. 32, no. 12, pp. 6575-6581., Registrované v: WOS
9. [1.1] SPALLEK, Thomas - GAN, Pamela - KADOTA, Yasuhiro - SHIRASU, Ken. Same tune, different song cytokinins as virulence factors in plant-pathogen interactions? In CURRENT OPINION IN PLANT BIOLOGY. ISSN 1369-5266, 2018, vol. 44, no., pp. 82-87., Registrované v: WOS

ADCA208

GARAJOVÁ, Soňa - MATHIEU, Yann - BECCIA, Maria Rosa - BENNATI-GRANIER, Chloé - BIASO, Frédéric - FANUEL, Mathieu - ROPARTZ, David - GUIGLIARELLI, Bruno - RECORD, Eric - ROGNIAUX, Hélène - HENRISSAT, Bernard - BERRIN, Jean-Guy. Single-domain flavoenzymes trigger lytic polysaccharide monooxygenases for oxidative degradation of cellulose. In Scientific Reports, 2016, vol. 6, art. no. 28276. (2015: 5.228 - IF, Q1 - JCR, 2.057 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 2045-2322.

Citácie:

1. [1.1] BISSARO, Bastien - VARNAL, Aniko - ROHR, Asmund K. - EIJSINK, Vincent G. H. Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, 2018, vol. 82, no. 4, pp., Registrované v: WOS
2. [1.1] BRENELLI, Livia - SQUINA, Fabio M. - FELBY, Claus - CANNELLA, David. Laccase-derived lignin compounds boost cellulose oxidative enzymes AA9. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
3. [1.1] FORSBERG, Zarah - BISSARO, Bastien - GULLESEN, Jonathan - DALHUS, Bjorn - VAAJE-KOLSTAD, Gustav - EIJSINK, Vincent G. H. Structural determinants of bacterial lytic polysaccharide monooxygenase functionality. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 4, pp. 1397-1412., Registrované v: WOS
4. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
5. [1.1] KADOWAKI, Marco A. S. - VARNAL, Aniko - JAMESON, John-Kristian - LEITE, Ana E. T. - COSTA-FILHO, Antonio J. - KUMAGAI, Patricia S. - PRADE, Rolf A. - POLIKARPOV, Igor - EIJSINK, Vincent G. H. Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus *Myceliophthora thermophila*. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
6. [1.1] KUUSK, Silja - BISSARO, Bastien - KUUSK, Piret - FORSBERG, Zarah - EIJSINK, Vincent G. H. - SORLIE, Morten - VALJAMAE, Priit. Kinetics of H<sub>2</sub>O<sub>2</sub>-driven degradation of chitin by a bacterial lytic polysaccharide monooxygenase. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 2, pp. 523-531., Registrované v: WOS
7. [1.1] MUELLER, Gerdt - CHYLENSKI, Piotr - BISSARO, Bastien - EIJSINK, Vincent G. H. - HORN, Svein Jarle. The impact of hydrogen peroxide supply on LPMO activity and overall saccharification efficiency of a commercial cellulase cocktail. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
8. [1.1] MURALEEDHARAN, Madhu Nair - ZOURARIS, Dimitrios - KARANTONIS, Antonis - TOPAKAS, Evangelos - SANDGREN, Mats - ROVA, Ulrika - CHRISTAKOPOULOS, Paul - KARNAOURI, Anthi. Effect of lignin fractions isolated from different biomass sources on cellulose oxidation by fungal lytic polysaccharide monooxygenases. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
9. [1.1] SUETZL, Leander - LAURENT, Christophe V. F. P. - ABRERA, Annabelle T. - SCHUETZ, Georg - LUDWIG, Roland - HALTRICH, Dietmar. Multiplicity of enzymatic functions in the CAZy



- AA3 family. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2477-2492., Registrované v: WOS
10. [1.1] VARNAI, Aniko - UMEZAWA, Kiwamu - YOSHIDA, Makoto - EIJSINK, Vincent G. H. The Pyrroloquinoline-Quinone-Dependent Pyranose Dehydrogenase from *Coprinopsis cinerea* Drives Lytic Polysaccharide Monooxygenase Action. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 11, pp., Registrované v: WOS
11. [1.1] VODOVNIK, Masa - VRABEC, Katja - HELIWIG, Patrick - BENNDORF, Dirk - SEZUN, Mija - GREGORI, Andrej - GOTTUMUKKALA, Lalitha D. - ANDERSON, Robin C. - REICHL, Udo. Valorisation of deinking sludge as a substrate for lignocellulolytic enzymes production by *Pleurotus ostreatus*. In *JOURNAL OF CLEANER PRODUCTION*. ISSN 0959-6526, 2018, vol. 197, no., pp. 253-263., Registrované v: WOS
12. [1.1] VU, Van V. - SON TUNG NGO. Copper active site in polysaccharide monooxygenases. In *COORDINATION CHEMISTRY REVIEWS*. ISSN 0010-8545, 2018, vol. 368, no., pp. 134-157., Registrované v: WOS
13. [1.1] WESTERENG, Bjorge - LOOSE, Jennifer S. M. - VAAJE-KOLSTAD, Gustav - AACHMANN, Finn L. - SORLIE, Morten - EIJSINK, Vincent G. H. Analytical Tools for Characterizing Cellulose-Active Lytic Polysaccharide Monooxygenases (LPMOs). In *CELLULASES: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2018, vol. 1796, no., pp. 219-246., Registrované v: WOS
14. [1.1] ZOURARIS, D. - DIMAROGONA, M. - KARNAOURI, A. - TOPAKAS, E. - KARANTONIS, A. Direct electron transfer of lytic polysaccharide monooxygenases (LPMOs) and determination of their formal potentials by large amplitude Fourier transform alternating current cyclic voltammetry. In *BIOELECTROCHEMISTRY*. ISSN 1567-5394, 2018, vol. 124, no., pp. 149-155., Registrované v: WOS
15. [1.2] BRESLMAYR, Erik - HANŽEK, Marija - HANRAHAN, Aoife - LEITNER, Christian - KITTL, Roman - ŠANTEK, Božidar - OOSTENBRINK, Chris - LUDWIG, Roland. A fast and sensitive activity assay for lytic polysaccharide monooxygenase. In *Biotechnology for Biofuels*. ISSN 17546834, 2018-03-23, 11, 1, pp., Registrované v: SCOPUS
16. [1.2] HEGNAR, Olav A. - PETROVIC, Dejan M. - BISSARO, Bastien - ALFREDSEN, Gry - VÁRNAI, Anikó - EIJSINK, Vincent G.H. pHdependent relationship between catalytic activity and hydrogen peroxide production shown via characterization of a lytic polysaccharide monooxygenase from *Gloeophyllum trabeum*. In *Applied and Environmental Microbiology*. ISSN 00992240, 2018-01-01, 85, 5, pp., Registrované v: SCOPUS
17. [1.2] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In *Chemical Reviews*. ISSN 00092665, 2018-03-14, 118, 5, pp. 2593-2635., Registrované v: SCOPUS
- ADCA209 GEMEINER, Peter - KURILLOVÁ, Ľubica - MALOVÍKOVÁ, Anna - TÓTH, D. - TOMAŠOVIČOVÁ, D. Properties and spherical calcium pectate and alginate gels and their use in diffusion chromatography, solid preparations and immobilization of enzymes and cells. In *Folia Microbiologica*, 1989, vol. 34, p. 214-227. ISSN 0015-5632.  
Citácie:
1. [1.1] HASSAN (EL-MOUSHY), Refat M. - KHAIROU, Khalid S. - AWAD, Aida M. New Aspects to Physicochemical Properties of Polymer Gels in Particularly the Coordination Biopolymeric Metal-Alginate Ionotropic Hydrogels. In *POLYMER GELS: SYNTHESIS AND CHARACTERIZATION*. ISSN 2367-0061, 2018, vol., no., pp. 275-354., Registrované v: WOS
- ADCA210 GEMEINER, Peter - MISLOVIČOVÁ, Danica - TKÁČ, Ján - ŠVITEL, Juraj - PÄTOPRSTÝ, Vladimír - HRABÁROVÁ, Eva - KOGAN, Grigorij - KOŽAR, Tibor. Lectinomics II. A highway to biomedical/clinical diagnostics. In *Biotechnology Advances*, 2009, vol. 27, no. 1, p. 1-15. (2008: 6.110 - IF, karentované - CCC). (2009 - Current Contents, WOS, SCOPUS). ISSN 0734-9750.  
Citácie:
1. [1.1] ANDREA FIORENTINO, Maria - ALBERTO PAOLICCHI, Fernando - MANUEL CAMPERO, Carlos - BARBEITO, Claudio G. Lectin binding patterns and immunohistochemical antigen detection in placenta and lungs of *Brucella abortus*-bovine infected fetuses. In *OPEN VETERINARY JOURNAL*. ISSN 2218-6050, 2018, vol. 8, no. 1, pp. 57-63., Registrované v: WOS
2. [1.1] BENACHOUR, H. - LEROY-DUDAL, J. - AGNIEL, R. - WILSON, J. - BRIAND, M. - CARREIRAS, F. - GALLET, O. Vitronectin (Vn) glycosylation patterned by lectin affinity assays A potent glycoproteomic tool to discriminate plasma Vn from cancer ascites Vn. In *JOURNAL OF MOLECULAR RECOGNITION*. ISSN 0952-3499, 2018, vol. 31, no. 5, pp., Registrované v: WOS
- ADCA211 GEMEINER, Peter - ŠTEFUCA, V. - BÁLEŠ, V. Biochemical engineering of biocatalysts immobilized on cellulosic materials. In *Enzyme and Microbial Technology*, 1993, vol. 15, p. 551-566. ISSN 0141-0229.

## Citácie:

- [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. *Cellulose Esters. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 293-427., Registrované v: WOS
- [1.1] RICCARDI, Caterina - MCCORMICK, Shelby - KASI, Rajeswari - KUMAR, Challa. *A Modular Approach for Interlocking Enzymes in Whatman Paper. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 32, pp. 10158-10162., Registrované v: WOS

ADCA212

GILLI, R. - KAČURÁKOVÁ, Marta - MATHLOUTHI, M. - NAVARINI, L. - PAOLETTI, S. FTIR studies of sodium hyaluronate and its oligomers in the amorphous solid-phase and in aqueous-solution. In *Carbohydrate Research*, 1994, vol. 263, no. 2, p. 315-326. ISSN 0008-6215.

## Citácie:

- [1.1] FAN, Zengjie - LI, Jie - LIU, Jianli - JIAO, Hongjing - LIU, Bin. *Anti-Inflammation and Joint Lubrication Dual Effects of a Novel Hyaluronic Acid/Curcumin Nanomicelle Improve the Efficacy of Rheumatoid Arthritis Therapy. In ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2018, vol. 10, no. 28, pp. 23595-23604., Registrované v: WOS
- [1.1] GAMARRA, Ana - FORES, Eva - MORATO, Jordi - MUNOZ-GUERRA, Sebastian. *Amphiphilic ionic complexes of hyaluronic acid with organophosphonium compounds and their antimicrobial activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 2021-2031., Registrované v: WOS
- [1.1] GAMARRA, Ana - MISSAGIA, Beatriz - URPI, Lourdes - MORATO, Jordi - MUNOZ-GUERRA, Sebastian. *Ionic coupling of hyaluronic acid with ethyl N-lauroyl L-arginate (LAE): Structure, properties and biocide activity of complexes. In CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 197, no., pp. 109-116., Registrované v: WOS
- [1.1] GAMARRA, Ana - MUNOZ-GUERRA, Sebastian - DE ILARDUYA, Antxon Martinez - THERIEN-AUBIN, Heloise - LANDFESTER, Katharina. *Comblike Ionic Complexes of Hyaluronic Acid and Alkanoylcholine Surfactants as a Platform for Drug Delivery Systems. In BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 9, pp. 3669-3681., Registrované v: WOS
- [1.1] LEFEVRE, Damien - LOUVEGNY, Juliette - NAUDIN, Mathieu - FERAIN, Etienne - DUPONT-GILLAIN, Christine - DEMOUSTIER-CHAMPAGNE, Sophie. *Biofunctionalized and self-supported polypyrrole frameworks as nanostructured ECM-like biointerfaces. In RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 41, pp. 22932-22943., Registrované v: WOS
- [1.1] MLADENOVA, Ralitsa - SABOTINOV, Ognian - KARAKIROVA, Yordanka - SHOPSKA, Maya - GYUROVA, Magdalena. *PRELIMINARY STUDY ON LASERS AND X-RAY IRRADIATION EFFECTS ON HYALURONIC ACID DERMAL FILLERS. In COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES*. ISSN 1310-1331, 2018, vol. 71, no. 11, pp. 1451-1457., Registrované v: WOS
- [1.1] YANG, Yishun - ZHAO, Yuan - LAN, Jinshuai - KANG, Yanan - ZHANG, Tong - DING, Yue - ZHANG, Xinyu - LU, Lu. *Reduction-sensitive CD44 receptor-targeted hyaluronic acid derivative micelles for doxorubicin delivery. In INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2018, vol. 13, no., pp. 4361-4378., Registrované v: WOS

ADCA213

GLIGORIJEVIĆ, Nikola\*\* - KRIŽÁKOVÁ, Martina, Zámorová - PENEZIĆ, Ana - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Structural and functional changes of fibrinogen due to aging. In *International Journal of Biological Macromolecules*, 2018, vol. 108, p. 1028-1034. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

## Citácie:

- [1.1] CHENG, Pengzhen - LI, Donglin - GAO, Yi - CAO, Tianqing - JIANG, Huijie - WANG, Jimeng - LI, Junqin - ZHANG, Shuaishuai - SONG, Yue - LIU, Bin - WANG, Chunmei - YANG, Liu - PEI, Guoxian. *Prevascularization promotes endogenous cell-mediated angiogenesis by upregulating the expression of fibrinogen and connective tissue growth factor in tissue-engineered bone grafts. In STEM CELL RESEARCH & THERAPY*. ISSN 1757-6512, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA214

GRABIŃSKA-ŁONIEWSKA, A. - SLÁVIKOVÁ, Elena - FURMAŃSKA, M. - SŁOMCZYŃSKI, T. Fungi in activated sludge biocenosis. In *Acta Microbiologica Polonica*, 1993, vol. 42, p. 303-313.

## Citácie:

- [1.1] TIGINI, Valeria - BEVIONE, Federico - PRIGIONE, Valeria - POLI, Anna - RANIERI, Lucrezia - SPENNATI, Francesco - MUNZ, Giulio - VARESE, Giovanna Cristina. *Tannery mixed liquors from an ecotoxicological and mycological point of view: Risks vs potential biodegradation application. In SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2018, vol. 627, no., pp. 835-843., Registrované v: WOS

ADCA215

GREGOROVÁ, Adriana - CIBULKOVÁ, Z. - KOŠÍKOVÁ, Božena - ŠIMON, P. Stabilization effect of lignin in polypropylene and recycled polypropylene. In *Polymer Degradation and Stability*, 2005, vol. 89, p. 553-558. (2004: 1.685 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0141-3910.

Citácie:

1. [1.1] BELLISARIO, D. - QUADRINI, F. - SANTO, L. - TEDDE, G. M. MANUFACTURING OF ANTIBACTERIAL ADDITIVES BY NANO-COATING FRAGMENTATION. In *PROCEEDINGS OF THE ASME 13TH INTERNATIONAL MANUFACTURING SCIENCE AND ENGINEERING CONFERENCE*, 2018, VOL 2, 2018, vol., no., pp., Registrované v: WOS
2. [1.1] CHEN, Bo - CAI, Di - LUO, Zhangfeng - CHEN, Changjing - ZHANG, Changwei - QIN, Peiyong - CAO, Hui - TAN, Tianwei. Corn cob residual reinforced polyethylene composites considering the biorefinery process and the enhancement of performance. In *JOURNAL OF CLEANER PRODUCTION*. ISSN 0959-6526, 2018, vol. 198, no., pp. 452-462., Registrované v: WOS
3. [1.1] CHEN, Kai - YE, Dezhan - GU, Shaojin - ZHOU, Yingshan. Thermal-oxidative effect of Kraft lignin antioxidant in polypropylene: Uncovering the key factor using correlation analysis model. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 478-485., Registrované v: WOS
4. [1.1] DAO, Anh T. N. - SHIMOKATA, Jun'ichi - TAKEUCHI, Kengo - NAKAYAMA, Koyuru - TANIKE, Toshiaki. Stabilization of recombinant spider silk in thermo-oxidative degradation: High-throughput screening for antioxidants. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2018, vol. 153, no., pp. 37-46., Registrované v: WOS
5. [1.1] JALALIAN, Mohammad - JIANG, Qixiang - BIROT, Marc - DELEUZE, Herve - WOODWARD, Robert T. - BISMARCK, Alexander. Frothed black liquor as a renewable cost effective precursor to low-density lignin and carbon foams. In *REACTIVE & FUNCTIONAL POLYMERS*. ISSN 1381-5148, 2018, vol. 132, no., pp. 145-151., Registrované v: WOS
6. [1.1] JULINOVA, Marketa - SLAVIK, Roman - VYORALOVA, Martina - KALEDOVA, Alena - ALEXY, Pavol. Utilization of Waste Lignin and Hydrolysate From Chromium Tanned Waste in Blends of Hot-Melt Extruded PVA-Starch. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 4, pp. 1459-1472., Registrované v: WOS
7. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). Depolymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS
8. [1.1] LI, Yingchun - JIA, Shuai - DU, Shuanli - WANG, Yafei - LV, Lida - ZHANG, Jianbin. Improved properties of recycled polypropylene by introducing the long chain branched structure through reactive extrusion. In *WASTE MANAGEMENT*. ISSN 0956-053X, 2018, vol. 76, no., pp. 172-179., Registrované v: WOS
9. [1.1] NOURA, Hamour - AMAR, Boukerrou - HOCINE, Djidjelli - RABAH, Yefsah - STEPHANE, Corn - ROLAND, El Hage - ANNE, Bergeret. Effect of gamma irradiation aging on mechanical and thermal properties of alfa fiber-reinforced polypropylene composites: Role of alfa fiber surface treatments. In *JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS*. ISSN 0892-7057, 2018, vol. 31, no. 5, pp. 598-615., Registrované v: WOS
10. [1.1] PENG, Yao - NAIR, Sandeep S. - CHEN, Heyu - YAN, Ning - CAO, Jinzhen. Effects of Lignin Content on Mechanical and Thermal Properties of Polypropylene Composites Reinforced with Micro Particles of Spray Dried Cellulose Nanofibrils. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 8, pp. 11078-11086., Registrované v: WOS
11. [1.1] PENG, Yao - WANG, Wen - CAO, Jinzhen. Preparation of Sodium Ligninsulfonate-Layered Double Hydroxide and Its Effects on Wood Flour/Polypropylene Composites During Accelerated UV Weathering. In *POLYMER COMPOSITES*. ISSN 0272-8397, 2018, vol. 39, no. 7, pp. 2451-2460., Registrované v: WOS
12. [1.1] SABARUDDIN, F. A. - PARIDAH, M. T. Effect of lignin on the thermal properties of nanocrystalline prepared from kenaf core. In *WOOD AND BIOFIBER INTERNATIONAL CONFERENCE (WOBIC 2017)*. ISSN 1757-8981, 2018, vol. 368, no., pp., Registrované v: WOS
13. [1.1] VAN SCHOORS, Laetitia - MINERBE, Marielle Gueguen - MOSCARDELLI, Sandrine - RABII, Hajer - DAVIES, Peter. Antioxidant properties of flax fibers in polyethylene matrix composites. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 126, no., pp. 333-339., Registrované v: WOS
14. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
15. [1.1] YE, Dezhan - KONG, Jinfeng - GU, Shaojin - ZHOU, Yingshan - HUANG, Caoping -



- XU, Weilin - ZHANG, Xi. Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 775-781., Registrované v: WOS
16. [1.1] YU, Chunhan - ZHANG, Wentao - BEKELE, Lemma Dadi - LU, Xiang';an - DUNS, Gregory Joseph - JIN, Leilei - JIA, Qi - CHEN, Jishuang. Characterization of Thermoplastic Composites Developed with Wheat Straw and Enzymatic-hydrolysis Lignin. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 3219-3235., Registrované v: WOS
17. [1.1] ZHAO, Lisha - OUYANG, Xinping - MA, Guanfeng - QIAN, Yong - QIU, Xueqing - RUAN, Tao. Improving antioxidant activity of lignin by hydrogenolysis. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 228-235., Registrované v: WOS
18. [1.2] XIANG, Yonggang - LI, Zibiao. Lignin-based functional nanocomposites. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 49-80., Registrované v: SCOPUS
- ADCA216 GREGOROVÁ, Adriana - KOŠÍKOVÁ, Božena - STAŠKO, A. Radical scavenging capacity of lignin and its effect on processing stabilization of virgin and recycled polypropylene. In *Journal of Applied Polymer Science*, 2007, vol. 106, p. 1626-1631. (2006: 1.306 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0021-8995.
- Citácie:
1. [1.1] BOBER, Patrycja - GAVRILOV, Nemanja - KOVALCIK, Adriana - MICUSIK, Matej - UNTERWEGER, Christoph - PASTI, Igor A. - SEDENKOVA, Ivana - ACHARYA, Udit - PFLEGER, Jiri - FILIPPOV, Sergey K. - KULICEK, Jaroslav - OMASTOVA, Maria - BREITENBACH, Stefan - CIRIC-MARJANOVIC, Gordana - STEJSKAL, Jaroslav. Electrochemical properties of lignin/polypyrrole composites and their carbonized analogues. In *MATERIALS CHEMISTRY AND PHYSICS*. ISSN 0254-0584, 2018, vol. 213, no., pp. 352-361., Registrované v: WOS
2. [1.1] HARAHAP, Andre Fahriz Perdana - GOZAN, Misri. Utilization of Lignin as Natural Antioxidant for Biodiesel. In *PROCEEDINGS OF THE 4TH INTERNATIONAL SYMPOSIUM ON APPLIED CHEMISTRY 2018*. ISSN 0094-243X, 2018, vol. 2024, no., pp., Registrované v: WOS
3. [1.1] JIANG, Yan - LIU, Xiuyu - YANG, Qiang - SONG, Xueping - QIN, Chengrong - WANG, Shuangfei - LI, Kecheng. Effects of residual lignin on mechanical defibrillation process of cellulosic fiber for producing lignocellulose nanofibrils. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 11, pp. 6479-6494., Registrované v: WOS
4. [1.1] PARK, Shin Young - KIM, Jae-Young - YOUN, Hye Jung - CHOI, Joon Weon. Fractionation of lignin macromolecules by sequential organic solvents systems and their characterization for further valuable applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 106, no., pp. 793-802., Registrované v: WOS
5. [1.2] XIA, Zhiyu - KIRATITANAVIT, Weeradech - YU, Shiran - KUMAR, Jayant - MOSURKAL, Ravi - NAGARAJAN, Ramaswamy. Fire retardants from renewable resources. In *Advanced Green Composites*, 2018-01-01, pp. 275-320., Registrované v: SCOPUS
- ADCA217 GREGOROVÁ, Adriana - KOŠÍKOVÁ, Božena - MORAVČÍK, R. Stabilization effect of lignin in natural rubber. In *Polymer Degradation and Stability*, 2006, vol. 91, p. 229-233. (2005: 1.749 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0141-3910.
- Citácie:
1. [1.1] CHEN, Kai - YE, Dezhan - GU, Shaojin - ZHOU, Yingshan. Thermal-oxidative effect of Kraft lignin antioxidant in polypropylene: Uncovering the key factor using correlation analysis model. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 478-485., Registrované v: WOS
2. [1.1] DENG, Lidan - ZHU, Jianxin - CHEN, Hui - WANG, Hui - SHEN, Jianyi. Microcalorimetric adsorption and infrared spectroscopic studies of supported nickel catalysts for the hydrogenation of diisopropylimine to diisopropylamine. In *JOURNAL OF CATALYSIS*. ISSN 0021-9517, 2018, vol. 362, no., pp. 35-45., Registrované v: WOS
3. [1.1] DOMINGUEZ, J. C. - SANTOS, T. M. - RIGUAL, V. - OLIET, M. - ALONSO, M. V. - RODRIGUEZ, F. Thermal stability, degradation kinetics, and molecular weight of organosolv lignins from *Pinus radiata*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 111, no., pp. 889-898., Registrované v: WOS
4. [1.1] HARI, Jozsef - SARKOZI, Mark - FOLDES, Eniko - PUKANSZKY, Bela. Long term stabilization of PE by the controlled release of a natural antioxidant from halloysite nanotubes. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2018, vol. 147, no., pp. 229-236., Registrované v: WOS
5. [1.1] KIRSCHWENG, Balazs - TILINGER, Daniel Mirko - HEGELY, Bence - SAMU, Gyula - TATRAALJAI, Dora - FOLDES, Eniko - PUKANSZKY, Bela. Melt stabilization of PE with natural antioxidants: Comparison of rutin and quercetin. In *EUROPEAN POLYMER JOURNAL*. ISSN

- 0014-3057, 2018, vol. 103, no., pp. 228-237., Registrované v: WOS
6. [1.1] LANG, Jason M. - SHRESTHA, Umesh M. - DADMUN, Mark. *The effect of Plant source on the Properties of lignin-Based Polyurethanes*. In *FRONTIERS IN ENERGY RESEARCH*. ISSN 2296-598X, 2018, vol. 6, no., pp., Registrované v: WOS
7. [1.1] SOUTO, Felipe - CALADO, Veronica - PEREIRA, Nei. *Lignin-based carbon fiber: a current overview*. In *MATERIALS RESEARCH EXPRESS*. ISSN 2053-1591, 2018, vol. 5, no. 7, pp., Registrované v: WOS
8. [1.1] WANG, Lei - HE, Chunxia - LI, Xiaolin - YANG, Xin. *Performance Analysis of Ternary Composites with Lignin, Eucalyptus Fiber, and Polyvinyl Chloride*. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 6510-6523., Registrované v: WOS
9. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. *Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers*. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
10. [1.1] YE, Dezhan - KONG, Jinfeng - GU, Shaojin - ZHOU, Yingshan - HUANG, Caoxing - XU, Weilin - ZHANG, Xi. *Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 775-781., Registrované v: WOS
11. [1.2] XIANG, Yonggang - LI, Zibiao. *Lignin-based functional nanocomposites*. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 49-80., Registrované v: SCOPUS
- ADCA218 GREŠÁKOVÁ, Ľubomíra - BOŘUTOVÁ, Radka - FAIX, Štefan - PLACHÁ, Iveta - ČOBANOVÁ, Klaudia - KOŠÍKOVÁ, Božena - LENG, Ľubomír. *Effect of lignin on oxidative stress in chicken fed a diet contaminated with zearalenone*. In *Acta Veterinaria Hungarica*, 2012, vol. 60, no. 1, p. 103-114. (2011: 0.673 - IF, 0.421 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0236-6290.
- Citácie:
1. [1.1] SURAI, P. F. - KOCHISH, I. I. - FISININ, V. I. *Glutathione peroxidases in poultry biology: Part 2. Modulation of enzymatic activities*. In *WORLDS POULTRY SCIENCE JOURNAL*. ISSN 0043-9339, 2018, vol. 74, no. 2, pp. 239-250., Registrované v: WOS
2. [1.1] SURAI, Peter F. *Molecular mechanisms of selenium action: selenoproteins*. In *SELENIUM IN POULTRY NUTRITION AND HEALTH*, 2018, vol., no., pp. 67-151., Registrované v: WOS
- ADCA219 GREŠÍK, Miroslav - KOLAROVA, Nadežda - FARKAŠ, Vladimír. *Membrane-potential, ATP, and cyclic-AMP changes induced by light in Trichoderma viride*. In *Experimental Mycology*, 1988, vol. 12, p. 295-301.
- Citácie:
1. [1.1] HILARES, Ruly Teran - DE SOUZA, Rebeca Andrade - MARCELINO, Paulo Franco - DA SILVA, Silvio Silverio - DRAGONE, Giuliano - MUSSATTO, Solange I. - SANTOS, Julio Cesar. *Sugarcane bagasse hydrolysate as a potential feedstock for red pigment production by Monascus ruber*. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp. 786-791., Registrované v: WOS
- ADCA220 GUERRINI, M. - AGULLES, T. - BISIO, A. - HRICOVÍNI, Miloš - LAY, L. - NAGGI, A. - POLETTI, L. - STURIALE, L. - TORRI, G. - CASU, B. *Minimal heparin/heparan sulfate sequences for binding to fibroblast growth factor-1*. In *Biochemical and Biophysical Research Communications*, 2002, vol. 292, p. 222-230. ISSN 0006-291X.
- Citácie:
1. [1.1] POMIN, Vitor H. - WANG, Xu. *Synthetic Oligosaccharide Libraries and Microarray Technology: A Powerful Combination for the Success of Current Glycosaminoglycan Interactomics*. In *CHEMMEDCHEM*. ISSN 1860-7179, 2018, vol. 13, no. 7, pp. 648-661., Registrované v: WOS
2. [1.1] SMITH, Raymond A. A. - MURALI, Sadasivam - RAI, Bina - LU, Xiaohua - LIM, Zophia Xue Hui - LEE, Jaslyn J. L. - NURCOMBE, Victor - COOL, Simon M. *Minimum structural requirements for BMP-2-binding of heparin oligosaccharides*. In *BIOMATERIALS*. ISSN 0142-9612, 2018, vol. 184, no., pp. 41-55., Registrované v: WOS
3. [1.2] SHAO, Meng - LIU, Chun Hui. *Recent Advances in Synthesis of Heparin Oligosaccharides and their Regulation Effect on Angiogenesis*. In *Chinese Journal of Pharmaceutical Biotechnology*. ISSN 10058915, 2018-06-01, 25, 3, pp. 263-267., Registrované v: SCOPUS
- ADCA221 GUERRINI, M. - HRICOVÍNI, Miloš - TORRI, G. *Interaction of heparins with fibroblast growth factors. Conformational aspects*. In *Current Pharmaceutical Design*, 2007, vol. 13, p. 2045-2056. (2006: 5.270 - IF, karentované - CCC). (2007 - Current Contents). ISSN 1381-6128.
- Citácie:
1. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. *Metalloglycomics*. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS

2. [1.1] FUKUNISHI, Yoshiaki - TABATA, Yasuhiko. Osteogenic differentiation enhances the MC3T3-E1 secretion of glycosaminoglycans with an affinity for basic fibroblast growth factor and bone morphogenetic protein-2. In *REGENERATIVE THERAPY*. ISSN 2352-3204, 2018, vol. 8, no., pp. 58-62., Registrované v: WOS
3. [1.1] MOURAO, Paulo A. S. - VILANOVA, Eduardo - SOARES, Paulo A. G. Unveiling the structure of sulfated fucose-rich polysaccharides via nuclear magnetic resonance spectroscopy. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2018, vol. 50, no., pp. 33-41., Registrované v: WOS
4. [1.1] SECCO, Ilaria - BARILE, Lucio - TORRINI, Consuelo - ZENTILIN, Lorena - VASSALLI, Giuseppe - GIACCA, Mauro - COLLESI, Chiara. Notch pathway activation enhances cardiosphere in vitro expansion. In *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE*, 2018, vol. 22, no. 11, pp. 5583-5595., Registrované v: WOS
- ADCA222 GUGLIERI, S. - HRICOVÍNI, Miloš - RAMAN, R. - POLITO, L. - TORRI, G. - CASU, B. - SASISEKHARAN, R. - GUERRINI, M. Minimum FGF2 binding structural requirements of heparin and heparan sulfate oligosaccharides as determined by NMR spectroscopy. In *Biochemistry*, 2008, vol. 47, p. 13862-13869. (2007: 3.368 - IF, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0006-2960.
- Citácie:
1. [1.1] DE PASQUALE, Valeria - SAROGNI, Patrizia - PISTORIO, Valeria - CERULO, Giuliana - PALADINO, Simona - PAVONE, Luigi Michele. Targeting Heparan Sulfate Proteoglycans as a Novel Therapeutic Strategy for Mucopolysaccharidoses. In *MOLECULAR THERAPY-METHODS & CLINICAL DEVELOPMENT*. ISSN 2329-0501, 2018, vol. 10, no., pp. 8-16., Registrované v: WOS
2. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
3. [1.1] FUKUNISHI, Yoshiaki - TABATA, Yasuhiko. Osteogenic differentiation enhances the MC3T3-E1 secretion of glycosaminoglycans with an affinity for basic fibroblast growth factor and bone morphogenetic protein-2. In *REGENERATIVE THERAPY*. ISSN 2352-3204, 2018, vol. 8, no., pp. 58-62., Registrované v: WOS
4. [1.1] LIM, Teck Chuan - CAI, Shuting - HUBER, Roland G. - BOND, Peter J. - CHIA, Priscilla Xian Siew - KHOU, Siv Ly - GAO, Shujun - LEE, Su Seong - LEE, Song-Gil. Facile saccharide-free mimetics that recapitulate key features of glycosaminoglycan sulfation patterns. In *CHEMICAL SCIENCE*. ISSN 2041-6520, 2018, vol. 9, no. 41, pp. 7940-7947., Registrované v: WOS
5. [1.1] MAZA, Susana - GANDIA-AGUADO, Noel - DE PAZ, Jose L. - NIETO, Pedro M. Fluorous-tag assisted synthesis of a glycosaminoglycan mimetic tetrasaccharide as a high-affinity FGF-2 and midkine ligand. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2018, vol. 26, no. 5, pp. 1076-1085., Registrované v: WOS
6. [1.1] THIEKER, David F. - XU, Yongmei - CHAPLA, Digantkumar - NORA, Chelsea - QIU, Hong - FELIX, Thomas - WANG, Lianchun - MOREMEN, Kelley W. - LIU, Jian - ESKO, Jeffrey D. - WOODS, Robert J. Downstream Products are Potent Inhibitors of the Heparan Sulfate 2-O-Sulfotransferase. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
- ADCA223 GULLÓN, P. - GONZALEZ-MUÑOZ, M.J. - VAN GOOL, M.P. - SCHOLS, H.A. - HIRSCH, Ján - EBRINGEROVÁ, Anna - PARAJÓ, J.C. Production, refining, structural characterization and fermentability of rice husk xylooligosaccharides. In *Journal of Agricultural and Food Chemistry*, 2010, vol. 58, p. 3632-3641. (2009: 2.469 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0021-8561.
- Citácie:
1. [1.1] GAUTERIO, Gabrielle Victoria - VIEIRA, Matheus Cardoso - GARCIA DA SILVA, Larissa Goncalves - HUBNER, Tamires - LADEIRA SANZO, Ana Virginia - KALIL, Susana Juliano. Production of xylanolytic enzymes and xylooligosaccharides by *Aureobasidium pullulans* CCT 1261 in submerged cultivation. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 335-345., Registrované v: WOS
2. [1.1] HERO, J. S. - ROMERO, C. M. - PISA, J. H. - PEROTTI, N. I. - OLIVARO, C. - MARTINEZ, M. A. Designing cross-linked xylanase aggregates for bioconversion of agroindustrial waste biomass towards potential production of nutraceuticals. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 111, no., pp. 229-236., Registrované v: WOS
3. [1.1] RAHIM, Abdul - KADIR, Syahraeni - HUTOMO, Gatot Siswo - ALAM, Nur - ROSTIATI - WAHYUDI, Imam - MAEMUNAH - LAUDE, Syamsuddin - BHRUDIN - HAMID, Abdul - SANGADJI, Muhammad Nur - MADE, Usman - ADRIANTON - MONDE, Anthon. FUNCTIONAL



- AND PREBIOTIC PROPERTIES OF ACETYLATED ARENGA STARCHES WITH DIFFERENT DEGREE OF SUBSTITUTION. In *CARPATHIAN JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 2066-6845, 2018, vol. 10, no. 2, pp. 25-36., Registrované v: WOS
4. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
5. [1.1] XIAO, Xiao - WEN, Jing-Yun - WANG, Yuan-Yuan - BIAN, Jing - LI, Ming-Fei - PENG, Feng - SUN, Run-Cang. NMR and ESI-MS spectrometry characterization of autohydrolysis xylooligosaccharides separated by gel permeation chromatography. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 303-310., Registrované v: WOS
- ADCA224 GULLÓN, Patricia - GONZALEZ-MUNOZ, Maria Jesús - VAN GOOL, Martine Paula - SCHOLS, Henk Arie - HIRSCH, Ján - EBRINGEROVÁ, Anna - PARAJÓ, Juan Carlos. Structural features and properties of soluble products derived from *Eucalyptus globulus* hemicelluloses. In *Food Chemistry*, 2011, vol. 129, p. 1798-1807. (2010: 3.458 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0308-8146.
- Citácie:
1. [1.1] SANTOS, Tamara M. - VIRGINIA ALONSO, M. - OLIET, Mercedes - DOMINGUEZ, Juan C. - RIGUAL, Victoria - RODRIGUEZ, Francisco. Effect of autohydrolysis on *Pinus radiata* wood for hemicellulose extraction. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 285-293., Registrované v: WOS
2. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
- ADCA225 GUO, Boyang - SATO, Nobuaki - BIELY, Peter - AMANO, Yoshihiko - NOZAKI, Kouichi. Comparison of catalytic properties of multiple beta-glucosidases of *Trichoderma reesei*. In *Applied Microbiology and Biotechnology*, 2016, vol. 100, p. 4959-4968. (2015: 3.376 - IF, Q2 - JCR, 1.254 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0175-7598.
- Citácie:
1. [1.1] GERONIMO, Inacrist - PAYNE, Christina M. - SANDGREN, Mats. Hydrolysis and Transglycosylation Transition States of Glycoside Hydrolase Family 3 beta-Glucosidases Differ in Charge and Puckering Conformation. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 41, pp. 9452-9459., Registrované v: WOS
2. [1.1] GERONIMO, Inacrist - PAYNE, Christina M. - SANDGREN, Mats. The role of catalytic residue pK(a) on the hydrolysis/transglycosylation partition in family 3 beta-glucosidases. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 2, pp. 316-324., Registrované v: WOS
3. [1.1] JOHNSON, Joy M. - THUERICH, Johannes - PETUTSCHNIG, Elena K. - ALTSCHMIED, Lothar - MEICHNER, Doreen - SHERAMETI, Irena - DINDAS, Julian - MROZINSKA, Anna - PAETZ, Christian - SCHOLZ, Sandra S. - FURCH, Alexandra C. U. - LIPKA, Volker - HEDRICH, Rainer - SCHNEIDER, Bernd - SVATOS, Ales - OELMUELLER, Ralf. A Poly(A) Ribonuclease Controls the Cellotriose-Based Interaction between *Piriformospora indica* and Its Host *Arabidopsis*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2496-2514., Registrované v: WOS
4. [1.1] OELMUELLER, Ralf. Sensing environmental and developmental signals via cellooligomers. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2018, vol. 229, no., pp. 1-6., Registrované v: WOS
5. [1.1] QIN, Lina - JIANG, Xianzhang - DONG, Zhiyang - HUANG, Jianzhong - CHEN, Xiuzhen. Identification of two integration sites in favor of transgene expression in *Trichoderma reesei*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
6. [1.1] SANDHU, Simranjeet Kaur - MATHUR, Anshu - GUPTA, Ravi - PURI, Suresh K. - ADSUL, Mukund. Cellulosic Biomass-Hydrolyzing Enzymes. In *WASTE TO WEALTH*. ISSN 2522-8366, 2018, vol., no., pp. 441-456., Registrované v: WOS
7. [1.1] ZOU, Gen - JIANG, Yanping - LIU, Rui - ZHU, Zhihua - ZHOU, Zhihua. The putative beta-glucosidase BGL3I regulates cellulase induction in *Trichoderma reesei*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
- ADCA226 GURKOK, S. - SOYLER, B. - BIELY, Peter - OGEL, Z.B. Cloning and heterologous expression of the extracellular alpha-galactosidase from *Aspergillus fumigatus* in *Aspergillus sojae* under the control of *gpdA* promoter. In *Journal of Molecular Catalysis B: Enzymatic*, 2010, vol. 64, p.146-149.

## Citácie:

- ADCA227 1. [1.2] LI, Yuanfeng - JIN, Shen - WANG, Denggang - LIANG, Shuli - ZHENG, Suiping - LIN, Ying. Constitutive display of *Candida antarctica* lipase B on the cell surface of *Aspergillus niger* and regulation of its fermentation. In *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology*. ISSN 10003061, 2018-07-25, 34, 7, pp. 1189-1196., Registrované v: SCOPUS
- HAGEN, I. - ECKER, M. - LAGORCE, A. - FRANCOIS, J.M. - ŠESTÁK, Sergej - RACHEL, R. - GROSSMANN, G. - HAUSER, N.C. - HOHEISEL, J.D. - TANNER, W. - STRAHL, S. Sed1p and Srl1p are required to compensate for cell wall instability in *Saccharomyces cerevisiae* mutants defective in multiple GPI-anchored mannoproteins. In *Molecular Microbiology*, 2004, vol. 52, p. 1413-1425. ISSN 0950-382X.
- Citácie:
1. [1.1] KUHNERT, Eric - LI, Yan - LAN, Nan - YUE, Qun - CHEN, Li - COX, Russell J. - AN, Zhiqiang - YOKOYAMA, Kenichi - BILLS, Gerald F. Enfumafungin synthase represents a novel lineage of fungal triterpene cyclases. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2018, vol. 20, no. 9, pp. 3325-3342., Registrované v: WOS
2. [1.1] VIEIRA REUWSAAT, Julia Catarina - MOTTA, Heryk - ACOSTA GARCIA, Ane Wichine - VASCONCELOS, Carolina Bettker - MARQUES, Barbara Machado - OLIVEIRA, Natalia Kronbauer - RODRIGUES, Jessica - GROHNS FERRAREZE, Patricia Aline - FRASES, Susana - LOPES, William - BARCELLOS, Vanessa Abreu - SQUIZANI, Eamim Daidre - HORTA, Jorge Andre - SCHRANK, Augusto - RODRIGUES, Marcio Lourenco - STAATS, Charley Christian - VAINSTEIN, Marilene Henning - KMETZSCH, Livia. A Predicted Mannoprotein Participates in *Cryptococcus gattii* Capsular Structure. In *MSPHERE*. ISSN 2379-5042, 2018, vol. 3, no. 2, pp., Registrované v: WOS
3. [3.2] Group Author(s). Uniprot Consortium. Q08673. IN: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q08673>, Registrované v: Data Citation Index
- ADCA228 HALADOVÁ, M. - EISENREICHOVÁ, E. - BUČKOVÁ, A. - TOMKO, J. - UHRÍN, Dušan. New nitrogen containing compounds in *Lilium candidum* L. In *Collection of Czechoslovak Chemical Communications*, 1988, vol. 53, p. 157-160. (1988 - Current Contents). ISSN 0010-0765.
- Citácie:
1. [1.1] ILKEI, Viktor - HAZAI, Laszlo - ANTUS, Sandor - BOLCSKEI, Hedvig. Flavonoid Alkaloids: Isolation, Bioactivity, and Synthesis. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 56*, 2018, vol., no., pp. 247-285., Registrované v: WOS
- ADCA229 HANES, J. - ŠIMÚTH, Jozef. Identification and partial characterization of the major royal jelly protein of the honey bee (*Apis mellifera*). In *Journal of Apicultural Research*, 1992, vol. 31, p. 22-26. ISSN 0021-8839.
- Citácie:
1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
2. [1.2] ALU'DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAI DAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In *Anticancer plants: Properties and Application*, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
3. [1.2] HADI, Roaa F. - TAIMOOZ, Sulaf Hamid. Effect of aquatic extract of chili pepper and honey extracts on fungus isolated from muscadomestica and some patients. In *Plant Archives*. ISSN 09725210, 2018-01-01, 18, 1, pp. 775-780., Registrované v: SCOPUS
- ADCA230 HANES, Jozef - KLAUDINY, Jaroslav - VON DER KAMMER H - SCHEIT K.H. Characterization by cDNA cloning of the mRNA of human ribosomal protein L8. In *Biochemical and Biophysical Research Communications*, 1993, vol. 197, p. 1223-1228. ISSN 0006-291X.
- Citácie:
1. [3.2] Group Author(s). Uniprot Consortium. P62917. IN: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/P62917>, Registrované v: Data Citation Index
- ADCA231 HANSEN, Steen Uldall - BARÁTH, Marek - SALAMEH, Bader A.B. - PRITCHARD, Robin G. - STIMPSON, William T. - GARDINER, John M. - JAYSON, Gordon C. Scalable Synthesis of L-Iduronic Acid Derivatives via Stereocontrolled Cyanohydrin Reaction for Synthesis of Heparin-Related Disaccharides. In *Organic Letters*, 2009, vol. 11, no. 20, pp. 4528-4531.
- Citácie:
1. [1.1] HERCZEG, Mihaly - DEMETER, Fruzsina - BALOGH, Tímea - KELEMEN, Viktor -

- BORBAS, Aniko. Rapid Synthesis of l-Idosyl Glycosyl Donors from Thioglucosides for the Preparation of Heparin Disaccharides. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2018, vol., no. 25, pp. 3312-3316., Registrované v: WOS*
2. [1.1] *PICHON, Maeva M. - STAUFFERT, Fabien - ADDANTE-MOYA, Luis G. - BODLENNER, Anne - COMPAIN, Philippe. Metal-Free Iodine-Mediated Deoxygenation of Alcohols in the Position to Electron-Withdrawing Groups. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2018, vol., no. 13, pp. 1538-1545., Registrované v: WOS*
- ADCA232 *HERMANN, M.C. - VRŠANSKÁ, Mária - JURÍČKOVÁ, M. - HIRSCH, Ján - BIELY, Peter - KUBICEK, C.P. The beta-D-xylosidase of Trichoderma reesei is a multifunctional beta-D-xylan xylohydrolase. In Biochemical Journal, 1997, vol. 321, p. 375-381. ISSN 0264-6021.*
- Citácie:
1. [1.1] *DUQUE, Estrella - DADDAOUA, Abdelali - CORDERO, Baldo F. - UDAONDO, Zulema - MOLINA-SANTIAGO, Carlos - ROCA, Amalia - SOLANO, Jennifer - MOLINA-ALCAIDE, Eduarda - SEGURA, Ana - RAMOS, Juan-Luis. Ruminal metagenomic libraries as a source of relevant hemicellulolytic enzymes for biofuel production. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, 2018, vol. 11, no. 4, pp. 781-787., Registrované v: WOS*
2. [1.1] *HIRASAWA, Hiroki - SHIOYA, Koki - FURUKAWA, Takanori - TANI, Shuji - SUMITANI, Jun-ichi - KAWAGUCHI, Takashi - MORIKAWA, Yasushi - SHIDA, Yosuke - OGASAWARA, Wataru. Engineering of the Trichoderma reesei xylanase3 promoter for efficient enzyme expression. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2737-2752., Registrované v: WOS*
3. [1.1] *ROHMAN, Ali - VAN OOSTERWIJK, Niels - PUSPANINGSIH, Ni Nyoman Tri - DIJKSTRA, Bauke W. Structural basis of product inhibition by arabinose and xylose of the thermostable GH43 beta-1,4-xylosidase from Geobacillus thermoleovorans IT-08. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS*
4. [1.2] *CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems, 2017-01-01, pp. 1-202., Registrované v: SCOPUS*
5. [1.2] *LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the  $\beta$ -xylI gene in Trichoderma orientalis EU7-22. In 3 Biotech. ISSN 2190572X, 2018-01-01, 8, 1, pp., Registrované v: SCOPUS*
- ADCA233 *HIRSCH, Ján - KOVÁČ, Pavol - PETRÁKOVÁ, Eva. An approach to the systematic synthesis of (1)-beta-D-xylooligosaccharides-. In Carbohydrate Research, 1982, vol. 106, p. 203-216. ISSN 0008-6215.*
- Citácie:
1. [1.1] *PEDERSEN, Martin Jaeger - MADSEN, Robert - CLAUSEN, Mads Hartvig. Iridium catalysis: reductive conversion of glucan to xylan. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2018, vol. 54, no. 8, pp. 952-955., Registrované v: WOS*
- ADCA234 *HIRSCH, Ján - PETRÁKOVÁ, Eva - FEATHER, M.S. The reaction of some dicarbonyl sugars with aminoguanidine. In Carbohydrate Research, 1992, vol. 232, p. 125-130. (1991: 1.299 - IF). ISSN 0008-6215.*
- Citácie:
1. [1.1] *KATHURIA, Deepika - CHOURASIYA, Sumit S. - MANDAL, Sanjay K. - CHAKRABORTI, Asit K. - BEIFUSS, Uwe - BHARATAM, Prasad V. Ring-chain isomerism in conjugated guanylylhydrazones: Experimental and theoretical study. In TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 23, pp. 2857-2864., Registrované v: WOS*
- ADCA235 *HOFER, M. - POSPÍŠIL, M. - PÍPALOVÁ, J. - HOLÁ, J. - ŠANDULA, Jozef. Haemopoiesis-enhancing effects of repeatedly administered carboxymethylglucan in mice exposed to fractionated irradiation. In Folia Biologica - Krakow, 1995, vol. 41, p. 249-256. ISSN 0015-5497.*
- Citácie:
1. [1.2] *LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from Saccharomyces cerevisiae. In International Journal of Biological Macromolecules. ISSN 01418130, 2018-08-01, 115, pp. 572-579., Registrované v: SCOPUS*
- ADCA236 *HOFER, M. - POSPÍŠIL, M. - VILKICKÁ, Š. - PÍPALOVÁ, I. - HOLÁ, J. - NETÍKOVÁ, J. - ŠANDULA, Jozef. Effects of postirradiation carboxymethylglucan administration in mice. In International Journal of Immunopharmacology, 1995, vol. 17, p.167-174.*
- Citácie:
1. [1.1] *LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from Saccharomyces cerevisiae. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp.*



- 572-579., Registrované v: WOS
- ADCA237 HOLLINGER, G. - KUNIAK, Ľudovít - MARCHSSAULT, R.H. Thermodynamic aspects of the gelatinization and swelling of crosslinked starch. In *Biopolymers*, 1974, vol. 13, p. 879-890. ISSN 0006-3525.
- Citácie:
- [1.1] JANG, Sun Ho - LI, Xiang Xu - CHO, Ur Ryong. *Manufacture and Properties of SBR/Starch/Bamboo Charcoal Composites*. In *POLYMER-KOREA*. ISSN 0379-153X, 2018, vol. 42, no. 1, pp. 29-34., Registrované v: WOS
  - [1.1] ZHU, Jianjun - SUN, Wenzhong - MENG, Zhiyun - ZHU, Xiaoxia - GAN, Hui - GU, Ruolan - WU, Zhuona - DOU, Guifang. *Preparation and characterization of a new type of porous starch microspheres (PSM) and effect of physicochemical properties on water uptake rate*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 707-714., Registrované v: WOS
- ADCA238 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RAPTA, Peter - ŠOLTÉS, Ladislav. An alternative standard for Trolox-equivalent antioxidant-capacity estimation base on thiol antioxidants. Comparative 2,2'-azinobis[3-ethylbenzothiazoline-6-sulfonic acid] decolorization and rotational viscometry study regarding hyaluronan degradation. In *Chemistry & Biodiversity*, 2010, vol. 7, no. 9, p. 2191-2200. (2009: 1.926 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1612-1872.
- Citácie:
- [1.1] JIANG, J. - ZANG, S. - LI, D. - WANG, K. - TIAN, S. - YU, A. - ZHANG, Z. *Determination of antioxidant capacity of thiol-containing compounds by electron spin resonance spectroscopy based on Cu<sup>+</sup> ion reduction*. In *TALANTA*. ISSN 0039-9140, 2018, vol. 184, p. 23-28., Registrované v: WOS
  - [1.1] LIANG, Y. - LIN, Q.L. - HUANG, P. - WANG, Y.G. - LI, J.J. - ZHANG, L. - CAO, J.Z. *Rice Bioactive Peptide Binding with TLR4 To Overcome H<sub>2</sub>O<sub>2</sub>-Induced Injury in Human Umbilical Vein Endothelial Cells through NF- $\kappa$ B Signaling*. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 2, p. 440-448., Registrované v: WOS
  - [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA239 HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTÉS, Ladislav. Peroxynitrite: in vivo and in vitro synthesis and oxidant degradative action on biological systems regarding biomolecular injury and inflammatory processes. In *Chemical Papers*, 2007, vol. 61, no. 6, p. 417-437. (2006: 0.360 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0366-6352.
- Citácie:
- [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.
- ADCA240 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: evaluation of antioxidative effect of cysteine-derived compounds. In *Chemistry & biodiversity*, 2012, vol. 9, no. 2, p. 309-317. (2011: 1.804 - IF, 0.601 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1612-1872.
- Citácie:
- [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA241 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - RAPTA, Peter - SASINKOVÁ, Vlasta - MALÍKOVÁ, Marta - ŠOLTÉS, Ladislav. High-molar-mass hyaluronan degradation by Weissberger's system: Pro- and anti-oxidative effects of some thiol compounds. In *Polymer Degradation and Stability*, 2009, vol. 94, no. 10, p. 1867-1875. (2008: 2.320 - IF). ISSN 0141-3910.
- Citácie:
- [1.2] GADOMSKA-GAJADHUR, Agnieszka - WRZECIONEK, Michał - MATYSZCZAK, Grzegorz - PIETOWSKI, Piotr - WIECŁAW, Michał - RUŚKOWSKI, Paweł. *Optimization of Poly(glycerol sebacate) Synthesis for Biomedical Purposes with the Design of Experiments*. In *Organic Process Research and Development*. ISSN 10836160, 2018-12-21, 22, 12, pp. 1793-1800., Registrované v: SCOPUS

2. [1.2] SANDER, Marcela Mantese - FERREIRA, Carlos Arthur. *Synthesis and characterization of a conductive and self-healing composite*. In *Synthetic Metals*. ISSN 03796779, 2018-09-01, 243, pp. 58-66., Registrované v: SCOPUS
3. [1.2] SANI, Noor Faezah Mohd - WAHIT, Mat Uzir - THAM, Weng Hong - MAJID, Noor Aishatun Abd. *Biodegradable poly(xylitol sebacate dodecanoate)/nano-hydroxyapatite composite for potential used in biomedical applications*. In *AIP Conference Proceedings*. ISSN 0094243X, 2018-07-13, 1985, art. no. 020001., Registrované v: SCOPUS
4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA242 HRADILOVÁ, Ludmila - POLÁKOVÁ, Monika - DVOŘÁKOVÁ, Barbora - HAJDÚCH, Marián - PETRUŠ, Ladislav. *Synthesis and cytotoxicity of some D-mannose click conjugates with aminobenzoic acid derivatives*. In *Carbohydrate Research*, 2012, vol. 361, p. 1-6. (2011: 2.332 - IF, 0.760 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0008-6215.  
Citácie:
1. [1.1] STEFLOVA, Jana - STORCH, Golo - WIESNER, Sarah - STOCKINGER, Skrollan - BERG, Regina - TRAPP, Oliver. *Investigation of Strain-Promoted Azide-Alkyne Cycloadditions in Aqueous Solutions by Capillary Electrophoresis*. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 2, pp. 604-613., Registrované v: WOS
2. [1.1] TIWARI, Sanjay. *Mannosylated Constructs as a Platform for Cell-Specific Delivery of Bioactive Agents*. In *CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS*. ISSN 0743-4863, 2018, vol. 35, no. 2, pp. 157-194., Registrované v: WOS
- ADCA243 HRICOVÍNĽ, Miloš - GUERRINI, M. - BISIO, O. - TORRI, G. - PETITOU, M. - CASU, B. *Conformation of heparin pentasaccharide bound to antithrombin III*. In *Biochemical Journal*, 2001, vol. 359, p. 265-272. ISSN 0264-6021.  
Citácie:
1. [1.1] DEMETER, Fruzsina - GYONGYOSI, Tamas - BERECHKY, Zsuzsanna - KOVER, Katalin E. - HERCZEG, Mihaly - BORBAS, Aniko. *Replacement of the L-iduronic acid unit of the anticoagulant pentasaccharide idraparinux by a 6-deoxy-L-talopyranose Synthesis and conformational analysis*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. *Metalloglycomics*. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
3. [1.1] GORLE, Anil Kumar - KATNER, Samantha J. - JOHNSON, Wyatt E. - LEE, Daniel E. - DANIEL, A. Gerard - GINSBURG, Eric P. - VON ITZSTEIN, Mark - BERNERS-PRICE, Susan J. - FARRELL, Nicholas P. *Substitution-Inert Polynuclear Platinum Complexes as Metalloshielding Agents for Heparan Sulfate*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 25, pp. 6606-6616., Registrované v: WOS
- ADCA244 HRICOVÍNĽ, Miloš - SCHOLTZOVA, Eva - BÍZIK, F. *B3LYP/6-311++G\*\* study of structure and spin-spin coupling constant in heparin disaccharide*. In *Carbohydrate Research*, 2007, vol. 342, no. 10, p. 1350-1356. (2006: 1.703 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215.  
Citácie:
1. [1.1] BESTAOUI-BERREKHCHI-BERRAHMA, N. - SPRINGBORG, M. - BERREKHCHI-BERRAHMA, C. A. - SEKKAL-RAHAL, M. *DFT and MP2 conformational study of 3,6-anhydro-alpha-D-galactose in gas phase and in aqueous solvent*. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2018, vol. 1126, no., pp. 44-53., Registrované v: WOS
- ADCA245 HRICOVÍNĽ, Miloš. *Effect of solvent and counterions upon structure and NMR spin - spin coupling constants in heparin disaccharide*. In *Journal of Physical Chemistry B*, 2011, vol. 115, p. 1503-1511. (2010: 3.603 - IF, karentované - CCC). (2011 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.  
Citácie:
1. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. *Metalloglycomics*. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
2. [1.2] ALIPOUR, Mojtaba. *How reliable are Minnesota density functionals for modeling phosphorus-hydrogen NMR spin-spin coupling constants? In Theoretical Chemistry Accounts*. ISSN 1432881X, 2018-01-01, 137, 1, pp., Registrované v: SCOPUS
- ADCA246 HRICOVÍNĽ, Miloš. *Structural aspects of carbohydrates and the relation with their biological properties*. In *Current Medicinal Chemistry*, 2004, vol. 11, p. 2565-2583. ISSN 0929-8673.

## Citácie:

1. [1.1] PILLEGOWDA, Manohar - PERIYASAMY, Ganga. DFT studies on interaction between bimetallic [Au<sub>2</sub>M] clusters and cellobiose. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2018, vol. 1129, no., pp. 26-36., Registrované v: WOS
2. [1.2] WANG, Lidan - ZHU, Xiaomin - HONG, Changye - CHEN, Zhaoyang - HUANG, Lixin. The Characteristics and the Application in Steamed Bread of Corn Starch Sugar. In *Journal of the Chinese Cereals and Oils Association*. ISSN 10030174, 2018-09-25, 33, 9, pp. 42-47., Registrované v: SCOPUS

ADCA247 HRICOVÍNI, Miloš. Solution structure of heparin pentasaccharide: NMR and DFT analysis. In *Journal of Physical Chemistry B*, 2015, vol. 119, p. 12397-12409. (2014: 3.302 - IF, Q2 - JCR, 1.440 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1520-6106.

## Citácie:

1. [1.1] ALMOND, Andrew. Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2018, vol. 50, no., pp. 58-64., Registrované v: WOS
2. [1.1] CHASHMNIAM, S. - TAFAZZOLI, M. Conformation of gemcitabine: An experimental NMR and theoretical DFT study. In *SCIENTIA IRANICA*. ISSN 1026-3098, 2018, vol. 25, no. 3, pp. 1354-1363., Registrované v: WOS
3. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS

ADCA248 HRICOVÍNI, Miloš - BÍZIK, F. Relationship between structure and three-bond proton-proton coupling constants in glycosaminoglycans. In *Carbohydrate Research*, 2007, vol. 342, p. 779-783. (2006: 1.703 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215.

## Citácie:

1. [1.1] HE, Qi Qi - TRIM, Paul J. - SNEL, Marten F. - HOPWOOD, John J. - FERRO, Vito. Synthesis and mass spectrometric analysis of disaccharides from methanolysis of heparan sulfate. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 45, pp. 8791-8803., Registrované v: WOS

ADCA249 HRICOVÍNI, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Olga. NMR and DFT analysis of trisaccharide from heparin repeating sequence. In *Journal of Physical Chemistry B*, 2014, vol. 118, no. 41, p. 11931-11942. (2013: 3.377 - IF, 1.494 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.

## Citácie:

1. [1.1] ALMOND, Andrew. Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2018, vol. 50, no., pp. 58-64., Registrované v: WOS
2. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS*. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS
3. [1.1] MOHAMED, Slim Hadj - QUERTINMONT, Jean - DELBAERE, Stephanie - SANGUINET, Lionel - CHAMPAGNE, Benoit. Assessing the Structure of Octastate Molecular Switches Using H-1 NMR Density Functional Theory Calculations. In *JOURNAL OF PHYSICAL CHEMISTRY C*. ISSN 1932-7447, 2018, vol. 122, no. 3, pp. 1800-1808., Registrované v: WOS

ADCA250 HRICOVÍNIOVÁ, Zuzana. Surfactants of biological origin: The role of Mo(VI) and microwaves in the synthesis of xylan-based non-ionic surfactants. In *Carbohydrate Polymers*, 2016, vol. 144, p. 297-304. (2015: 4.219 - IF, Q1 - JCR, 1.460 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617.

## Citácie:

1. [1.1] MA, Jiliang - LI, Dan - ZHONG, Linxin - DU, Fan - TAN, Jiewen - YANG, Jie - PENG, Xinwen. Synthesis and characterization of biofunctional quaternized xylan-Fe<sub>2</sub>O<sub>3</sub> core/shell nanocomposites and modification with polylysine and folic acid. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 382-389., Registrované v: WOS

ADCA251 HRICOVÍNIOVÁ, Zuzana. Xylans are a valuable alternative resource: Production of D-xylose, D-lyxose and furfural under microwave irradiation. In *Carbohydrate Polymers*, 2013, vol. 98, p. 1416-1421. (2012: 3.479 - IF, 1.409 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617.

## Citácie:

1. [1.1] DELBECQ, Frederic - WANG, Yantao - MURALIDHARA, Anitha - EL OUARDI, Karim - MARLAIR, Guy - LEN, Christophe. Hydrolysis of Hemicellulose and Derivatives-A Review of Recent Advances in the Production of Furfural. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS
2. [1.1] PELETEIRO, Susana - GALLETTI, Anna Maria Raspolli - ANTONETTI, Claudia -



- SANTOS, Valentin - CARLOS PARAJO, Juan. Manufacture of Furfural from Xylan-containing Biomass by Acidic Processing of Hemicellulose-Derived Saccharides in Biphasic Media Using Microwave Heating. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2018, vol. 38, no. 3, pp. 198-213., Registrované v: WOS*
- ADCA252 HRICOVÍNIOVÁ, Zuzana. Rapid, one pot preparation of D-mannose and D-mannitol starch: the effect of microwave irradiation and Mo VI catalyst. In Tetrahedron: Asymmetry, 2011, vol. 22, p. 1184-1188. (2010: 2.484 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0957-4166.  
Citácie:  
*1. [1.1] KHLESTKIN, Vadim K. - PELTEK, Sergey E. - KOLCHANOV, Nikolay A. Review of direct chemical and biochemical transformations of starch. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 460-476., Registrované v: WOS*
- ADCA253 HRMOVÁ, Mária - FARKAŠ, Vladimír - LAHNSTEIN, J. - FINCHER, G.B. A barley xyloglucan xyloglucosyl transferase covalently links xyloglucan, cellulosic substrates, and (1,3/1,4)-beta-D-glucans. In Journal of Biological Chemistry, 2007, vol. 282, p. 12951-12962. (2006: 5.808 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0021-9258.  
Citácie:  
*1. [1.1] BARNES, William J. - ANDERSON, Charles T. Release, Recycle, Rebuild: Cell-Wall Remodeling, Autodegradation, and Sugar Salvage for New Wall Biosynthesis during Plant Development. In MOLECULAR PLANT. ISSN 1674-2052, 2018, vol. 11, no. 1, pp. 31-46., Registrované v: WOS*  
*2. [1.1] COSGROVE, Daniel J. Diffuse Growth of Plant Cell Walls. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 1, pp. 16-27., Registrované v: WOS*  
*3. [1.1] FAN, Mingzhu - HERBURGER, Klaus - JENSEN, Jacob K. - ZEMELIS-DURFEE, Starla - BRANDIZZI, Federica - FRY, Stephen C. - WILKERSON, Curtis G. A Trihelix Family Transcription Factor Is Associated with Key Genes in Mixed-Linkage Glucan Accumulation. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 178, no. 3, pp. 1207-1221., Registrované v: WOS*  
*4. [1.1] MAJDA, Mateusz - ROBERT, Stephanie. The Role of Auxin in Cell Wall Expansion. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS*  
*5. [1.1] OTULAK-KOZIEL, Katarzyna - KOZIEL, Edmund - BUJARSKI, Jozef J. Spatiotemporal Changes in Xylan-1/Xyloglucan and Xyloglucan Xyloglucosyl Transferase (XTH-Xet5) as a Step-In of Ultrastructural Cell Wall Remodelling in Potato-Potato Virus Y (PVYNTN) Hypersensitive and Susceptible Reaction. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2018, vol. 19, no. 8, pp., Registrované v: WOS*  
*6. [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS*  
*7. [1.1] TUCKER, Matthew R. - LOU, Haoyu - AUBERT, Matthew K. - WILKINSON, Laura G. - LITTLE, Alan - HOUSTON, Kelly - PINTO, Sara C. - SHIRLEY, Neil J. Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development. In PLANTS-BASEL. ISSN 2223-7747, 2018, vol. 7, no. 2, pp., Registrované v: WOS*
- ADCA254 HRMOVÁ, Mária - FARKAŠ, Vladimír - HARVEY, A.J. - LAHNSTEIN, J. - WISCHMANN, B. - KAEWTHAI, N. - EZCURRA, I. - TEERI, T.T. - FINCHER, G.B. Substrate specificity and catalytic mechanism of a xyloglucan xyloglucosyl transferase HvXET6 from barley (*Hordeum vulgare* L.). In FEBS Journal, 2009, vol. 276, p. 437-456. (2008: 3.139 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1742-464X.  
Citácie:  
*1. [1.1] FAN, Mingzhu - HERBURGER, Klaus - JENSEN, Jacob K. - ZEMELIS-DURFEE, Starla - BRANDIZZI, Federica - FRY, Stephen C. - WILKERSON, Curtis G. A Trihelix Family Transcription Factor Is Associated with Key Genes in Mixed-Linkage Glucan Accumulation. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 178, no. 3, pp. 1207-1221., Registrované v: WOS*
- ADCA255 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária. Cellulose degrading and xylan-degrading enzymes of *Aspergillus terreus* and *Aspergillus niger*. In Enzyme and Microbial Technology, 1989, vol. 11, p. 610-616. ISSN 0141-0229.  
Citácie:  
*1. [1.1] BARTON-PUDLIK, Joanna - CZAJA, Krystyna - LIPOK, Jacek. Resistance of Conifer Needle Polyolefin Composites (CNPCs) Against Biodecomposition Caused by Fungi. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 1179-1193., Registrované v: WOS*  
*2. [1.1] SINGH, Shalini. White-Rot Fungal Xylanases for Applications in Pulp and Paper*

- Industry. In FUNGAL BIOREFINERIES. ISSN 2198-7777, 2018, vol., no., pp. 47-63., Registrované v: WOS*
- ADCA256 HRMOVÁ, Mária - MACGREGOR, E.A. - BIELY, Peter - STEWART, R.J. - FINCHER, G.B. Substrate binding and catalytic mechanism of a barley beta-D-glucosidase/(1,4)-D-glucan exohydrolase. In Journal of Biological Chemistry, 1998, vol. 273, p. 11134-11143. (1997: 6.963 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0021-9258.  
Citácie:  
1. [1.1] MELLO, Gerson Ritzmann - PEREIRA, Aline Bescrovaine - PEDERSEN VOLL, Fernando Augusto - KRIEGER, Nadia - MITCHELL, David Alexander. Fingerprinting processive beta-amylases. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 137, no., pp. 334-343., Registrované v: WOS
- ADCA257 HRMOVÁ, Mária - PETRÁKOVÁ, Eva - BIELY, Peter. Induction of cellulose-degrading and xylan-degrading enzyme systems in *Aspergillus terreus* by homodisaccharides and heterodisaccharides composed of glucose and xylose. In Journal of General Microbiology, 1991, vol. 137, p. 541-547.  
Citácie:  
1. [1.1] ELAHI, Amina - REHMAN, Abdul. Bioconversion of hemicellulosic materials into ethanol by yeast, *Pichia kudriavzevii* 2-KLP1, isolated from industrial waste. In REVISTA ARGENTINA DE MICROBIOLOGIA. ISSN 0325-7541, 2018, vol. 50, no. 4, pp. 417-425., Registrované v: WOS  
2. [1.1] MASSONNET, Melanie - MORALES-CRUZ, Abraham - FIGUEROA-BALDERAS, Rosa - LAWRENCE, Daniel P. - BAUMGARTNER, Kendra - CANTU, Dario. Condition-dependent co-regulation of genomic clusters of virulence factors in the grapevine trunk pathogen *Neofusicoccum parvum*. In MOLECULAR PLANT PATHOLOGY. ISSN 1464-6722, 2018, vol. 19, no. 1, pp. 21-34., Registrované v: WOS
- ADCA258 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária - PETRÁKOVÁ, Eva. Induction of cellulose- and xylan-degrading enzyme complex in the yeast *Trichosporon cutaneum*. In Archives of Microbiology, 1984, vol. 138, p. 371-376. ISSN 0302-8933.  
Citácie:  
1. [1.1] AYADI, Ines - BELGHITH, Hafedh - GARGOURI, Ali - GUERFALI, Mohamed. Screening of new oleaginous yeasts for single cell oil production, hydrolytic potential exploitation and agro-industrial by-products valorization. In PROCESS SAFETY AND ENVIRONMENTAL PROTECTION. ISSN 0957-5820, 2018, vol. 119, no., pp. 104-114., Registrované v: WOS  
2. [1.1] BASU, Moumita - KUMAR, Vishal - SHUKLA, Pratyosh. Recombinant Approaches for Microbial Xylanases: Recent Advances and Perspectives. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 87-99., Registrované v: WOS
- ADCA259 HRMOVÁ, Mária - BURTON, R.A. - BIELY, Peter - LAHNSTEIN, J. - FINCHER, G.B. Hydrolysis of (1,4)-beta-D-mannans in barley (*Hordeum vulgare* L.) is mediated by the connected action of (1,4)-beta-mannan endohydrolase and beta-D-mannosidase. In Biochemical Journal, 2006, vol. 399, p. 77-90. (2006 - Current Contents). ISSN 0264-6021.  
Citácie:  
1. [1.1] KUMAR, Avinash - SIMMI, P. S. - GIRIDHAR, Parvatam. Cell wall remodelling involving galactomannan de-branching influence *Agrobacterium tumefaciens*-mediated transformation of *Coffea canephora* somatic embryos. In PLANT CELL TISSUE AND ORGAN CULTURE. ISSN 0167-6857, 2018, vol. 134, no. 3, pp. 369-382., Registrované v: WOS  
2. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS
- ADCA260 HRMOVÁ, Mária - TAFT, C.S. - SELITRENNIKOFF, C.P. (1,3)-β-Glucan synthase of *Neurospora crassa*. Partial purification and characterization of solubilized enzyme activity. In Experimental Mycology, 1989, vol. 13, p. 129-139. ISSN 0147-5975.  
Citácie:  
1. [1.1] PAPASPYRIDIS, Lefki-Maria - ZERVA, Anastasia - TOPAKAS, Evangelos. Biocatalytic Synthesis of Fungal beta-Glucans. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 7, pp., Registrované v: WOS
- ADCA261 HRMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna. The structural, molecular and functional properties of lignin-containing beechwood glucuronoxylan. In Macromolecular Symposia, 2006, vol. 232, p. 19-26. (2005: 0.913 - IF). ISSN 1022-1360.  
Citácie:  
1. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS

ADCA262

HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta - ŠANDULA, Jozef - HŘÍBALOVÁ, V. - OMELKOVÁ, Jiřina. Influence of the drying method on the physical properties and immunomodulatory activity of the particulate (1-3)-beta-D-glucan from *Saccharomyces cerevisiae*. In *Carbohydrate Polymers*, 2003, vol. 51, p. 9-15. (2002: 1.655 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] *CEBIN, Aleksandra Vojvodic - PETRAVIC-TOMINAC, Vlatka - DJAKOVIC, Senka - SRECEC, Sinisa - ZECHNER-KRPAN, Vesna - PILJAC-ZEGARAC, Jasenka - ISIKHUEMHEN, Omoanghe S. Polysaccharides and Antioxidants from Culinary-Medicinal White Button Mushroom, Agaricus bisporus (Agaricomycetes), Waste Biomass. In INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS. ISSN 1521-9437, 2018, vol. 20, no. 8, pp. 797-808., Registrované v: WOS*
2. [1.1] *PELTZER, M. A. - SALVAY, A. G. - DELGADO, J. F. - DE LA OSA, O. - WAGNER, J. R. Use of Residual Yeast Cell Wall for New Biobased Materials Production: Effect of Plasticization on Film Properties. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2018, vol. 11, no. 11, pp. 1995-2007., Registrované v: WOS*
3. [1.1] *VEVERKA, Miroslav - DUBAJ, Tibor - VEVERKOVA, Eva - SIMON, Peter. Natural oil emulsions stabilized by beta-glucan gel. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2018, vol. 537, no., pp. 390-398., Registrované v: WOS*

ADCA263

HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - VALACHOVIČ, P. Ultrasound-assisted extraction of water-soluble polysaccharides from the roots of valerian (*Valeriana officinalis* L.). In *Ultrasonics Sonochemistry*, 2002, vol. 9, p. 37-44. ISSN 1350-4177.

Citácie:

1. [1.1] *BABAMORADI, Nastaran - YOUSEFI, Shima - ZIARATI, Parisa. Optimization of ultrasound-assisted extraction of functional polysaccharides from common mullein (*Verbascum thapsus* L.) flowers. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2018, vol. 41, no. 7, pp., Registrované v: WOS*
2. [1.1] *KIA, Ala Ghasemi - GANJLOO, Ali - BIMAKR, Mandana. A Short Extraction Time of Polysaccharides from Fenugreek (*Trigonella foencem graecum*) Seed Using Continuous Ultrasound Acoustic Cavitation: Process Optimization, Characterization and Biological Activities. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2018, vol. 11, no. 12, pp. 2204-2216., Registrované v: WOS*
3. [1.1] *LIU, An-jun - YU, Juan - JI, Hai-yu - ZHANG, Hong-cui - ZHANG, Yan - LIU, Hui-ping. Extraction of a Novel Cold-Water-Soluble Polysaccharide from *Astragalus membranaceus* and Its Antitumor and Immunological Activities. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 1, pp., Registrované v: WOS*
4. [1.1] *NURMAMAT, Eliyas - XIAO, Hongxing - ZHANG, Yan - JIAO, Ziwei. Effects of Different Temperatures on the Chemical Structure and Antitumor Activities of Polysaccharides from *Cordyceps militaris*. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 4, pp., Registrované v: WOS*
5. [1.1] *TAGHOUTI, Meriem - MARTINS-GOMES, Carlos - SCHAEFER, Judith - FELIX, Luis M. - SANTOS, Joao A. - BUNZEL, Mirko - NUNES, Fernando M. - SILVA, Amelia M. Thymus *pulegioides* L. as a rich source of antioxidant, anti-proliferative and neuroprotective phenolic compounds. In FOOD & FUNCTION. ISSN 2042-6496, 2018, vol. 9, no. 7, pp. 3617-3629., Registrované v: WOS*
6. [1.1] *ZHANG, Jixian - WEN, Chaoting - QIN, Wei - QIN, Piaoyan - ZHANG, Haihui - DUAN, Yuqing. Ultrasonic-enhanced subcritical water extraction of polysaccharides by two steps and its characterization from *Lentinus edodes*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2269-2277., Registrované v: WOS*
7. [1.1] *ZHANG, Xiaonan - BAN, Qingfeng - WANG, Xibo - WANG, Zhongjiang. Green and Efficient PEG-Based Ultrasonic-Assisted Extraction of Polysaccharides from Tree Peony Pods and the Evaluation of Their Antioxidant Activity In Vitro. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, 2018, vol., no., pp., Registrované v: WOS*
8. [1.1] *ZHAO, Yong-Ming - YANG, Jian-ming - LIU, Ying-hui - ZHAO, Ming - WANG, Jin. Ultrasound assisted extraction of polysaccharides from *Lentinus edodes* and its anti-hepatitis B activity in vitro. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2217-2223., Registrované v: WOS*
9. [1.2] *NANDHINI, Sundaresan - NARAYANAN, Kasthuri Bai - ILANGO, Kaliappan. Valeriana *officinalis*: A review of its traditional uses, phytochemistry and pharmacology. In Asian Journal of Pharmaceutical and Clinical Research. ISSN 09742441, 2018-01-01, 11, 1, pp. 36-41., Registrované v: SCOPUS*



ADCA264

HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - POLOVKA, Martin - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Structural features of two heteroxylan polysaccharide fractions from wheat bran with anti-complementary and antioxidant activities. In *Carbohydrate Polymers*, 2013, vol. 93, p. 22-30. (2012: 3.479 - IF, 1.409 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] CROWLEY, Damian - O'; CALLAGHAN, Yvonne - O'; BRIEN, Nora M. *The Immunomodulatory Potential of Cereal Grains*. In *CURRENT NUTRITION & FOOD SCIENCE*. ISSN 1573-4013, 2018, vol. 14, no. 3, pp. 183-196., Registrované v: WOS
2. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. *The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach*. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS
3. [1.1] GOMES, Helder A. R. - MOREIRA, Leonora R. S. - FILHO, Edivaldo X. F. *Enzymes and Food Industry: A Consolidated Marriage*. In *ADVANCES IN BIOTECHNOLOGY FOR FOOD INDUSTRY*, 2018, vol. 14, no., pp. 55-89., Registrované v: WOS
4. [1.1] ROSICKA-KACZMAREK, Justyna - KOMISARCZYK, Aleksandra - NEBESNY, Ewa. *Heteropolysaccharide preparations from rye and wheat bran as sources of antioxidants*. In *JOURNAL OF CEREAL SCIENCE*. ISSN 0733-5210, 2018, vol. 81, no., pp. 37-43., Registrované v: WOS
5. [1.1] SKULCOVA, A. - HASCICOVA, Z. - HRDLICKA, L. - SIMA, J. - JABLONSKY, M. *GREEN SOLVENTS BASED ON CHOLINE CHLORIDE FOR THE EXTRACTION OF SPRUCE BARK (PICEA ABIES)*. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2018, vol. 52, no. 3-4, pp. 171-179., Registrované v: WOS
6. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. *Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
7. [1.2] WANG, Li - XUE, Lamei - LI, Yan - QIAN, Haifeng - ZHANG, Hui - QI, Xiguang - WU, Gangcheng. *Research progress of physiological activities of xylooligosaccharide*. In *Journal of Food Science and Biotechnology*. ISSN 16731689, 2018-01-01, 37, 6, pp. 561-571., Registrované v: SCOPUS

ADCA265

HROMÁDKOVÁ, Zdenka - KOVÁČIKOVÁ, J. - EBRINGEROVÁ, Anna. Study of the classical and ultrasound-assisted extraction of the corn cob xylan. In *Industrial Crops and Products*, 1999, vol. 9, p. 101-109. ISSN 0926-6690.

Citácie:

1. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. *The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff A modeling approach*. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS
2. [1.1] HU, Huawen - LIANG, Weixin - ZHANG, Yuyuan - WU, Siyong - YANG, Quannu - WANG, Yunbo - ZHANG, Min - LIU, Qianjun. *Multipurpose Use of a Corncob Biomass for the Production of Polysaccharides and the Fabrication of a Biosorbent*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 3830-3839., Registrované v: WOS
3. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. *Hemicellulose-Based Hydrogels and Their Potential Application*. In *POLYMER GELS: SCIENCE AND FUNDAMENTALS*. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS
4. [1.1] MORADI, Negin - RAHIMI, Masoud. *Effect of simultaneous ultrasound/pulsed electric field pretreatments on the oil extraction from sunflower seeds*. In *SEPARATION SCIENCE AND TECHNOLOGY*. ISSN 0149-6395, 2018, vol. 53, no. 13, pp. 2088-2099., Registrované v: WOS
5. [1.1] OZOGUL, Yesim - UCAR, Yilmaz - TAKADAS, Fethiye - DURMUS, Mustafa - KOESKER, Ali R. - POLAT, Abdurahman. *Comparison of Green and Conventional Extraction Methods on Lipid Yield and Fatty Acid Profiles of Fish Species*. In *EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY*. ISSN 1438-7697, 2018, vol. 120, no. 12, pp., Registrované v: WOS
6. [1.1] POODI, Yasaman - BIMAKR, Mandana - GANJLOO, Ali - ZARRINGHALAMI, Soheila. *Intensification of bioactive compounds extraction from Feijoa (Feijoa sellowiana Berg.) leaves using ultrasonic waves*. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2018, vol. 108, no., pp. 37-50., Registrované v: WOS
7. [1.1] RANVEER, Rahul C. *Lycopene: A Natural Red Pigment*. In *NATURAL AND ARTIFICIAL*

- FLAVORING AGENTS AND FOOD DYES, 2018, vol. 7, no., pp. 427-456., Registrované v: WOS
8. [1.1] TAKADA, Masatsugu - NIU, Rui - MINAMI, Eiji - SAKA, Shiro. Characterization of three tissue fractions in corn (*Zea mays*) cob. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 115, no., pp. 130-135., Registrované v: WOS
9. [1.1] YASEMI, Mahnaz - HEYDARINASAB, Amir - RAHIMI, Masoud - ARDJMAND, Mehdi. Microchannel as a Green Processes, Compared to Conventional Methods for Extraction of Quercitannin. In *JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN*. ISSN 0253-5106, 2018, vol. 40, no. 1, pp. 33-42., Registrované v: WOS
10. [1.2] OZOGUL, Yesim - UCAR, Yilmaz - TAKADAŞ, Fethiye - DURMUS, Mustafa - KÖŞKER, Ali R. - POLAT, Abdurahman. Comparison of Green and Conventional Extraction Methods on Lipid Yield and Fatty Acid Profiles of Fish Species. In *European Journal of Lipid Science and Technology*. ISSN 14387697, 2018-12-01, 120, 12, pp., Registrované v: SCOPUS
- ADCA266 HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Comparison of conventional and ultrasound-assisted extraction of phenolics-rich heteroxylans from wheat bran. In *Ultrasonics Sonochemistry*, 2008, vol.15, p. 1062-1068. ISSN 1350-4177.
- Citácie:
1. [1.1] ISCIMEN, E. M. - HAYTA, M. Optimisation of ultrasound assisted extraction of rice bran proteins: effects on antioxidant and antiproliferative properties. In *QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS*. ISSN 1757-8361, 2018, vol. 10, no. 2, pp. 165-174., Registrované v: WOS
2. [1.1] WANG, C. C. - MA, S. - LI, L. - ZHENG, X. L. - WANG, X. X. Effect of modified dietary fibre from wheat bran on the quality of noodle. In *QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS*. ISSN 1757-8361, 2018, vol. 10, no. 1, pp. 61-68., Registrované v: WOS
3. [1.2] MA, Zhi Yu - LV, Yan Na. Study on Alkaline Extraction of Hemicelluloses from Bagasse Pith with Ultrasound-assisted. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2018-01-01, 37, 1, pp. 19-25., Registrované v: SCOPUS
4. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In *Food and Feed Safety Systems and Analysis*, 2018-01-01, pp. 173-191., Registrované v: SCOPUS
5. [1.2] ŽLABUR, Jana - VOČA, Sandra - BRNČIĆ, Mladen - RIMAC-BRNČIĆ, Suzana. New Trends in Food Technology for Green Recovery of Bioactive Compounds From Plant Materials. In *Role of Materials Science in Food Bioengineering*, 2018-04-02, pp. 1-36., Registrované v: SCOPUS
- ADCA267 HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana - VRCHOTOVÁ, Nadežda - EBRINGEROVÁ, Anna. Non- cellulosic polysaccharides from the leaves of small balsam (*Impatiens parviflora* DC.). In *Carbohydrate Research*, 2014, vol. 389, p. 147-153. (2013: 1.966 - IF, 0.639 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] CORREA-FERREIRA, Marilia Locatelli - FERREIRA, Daniele Maria - DALLAZEN, Jorge Luiz - SILVA, Artur M. S. - DE PAULA WERNER, Maria Fernanda - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Gastroprotective effects and structural characterization of a pectic fraction isolated from *Artemisia campestris* subsp *maritima*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2395-2403., Registrované v: WOS
2. [1.1] FU, Genque - YUE, Panpan - HU, Yajie - LI, Nan - SHI, Zhengjun - PENG, Feng. Fractionation of DMSO-Extracted and NaOH-Extracted Hemicelluloses by Gradient Ethanol Precipitation from *Neosinocalamus affinis*. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
3. [1.1] SZEWCZYK, Katarzyna. Phytochemistry of the genus *impatiens* (Balsaminaceae): A review. In *BIOCHEMICAL SYSTEMATICS AND ECOLOGY*. ISSN 0305-1978, 2018, vol. 80, no., pp. 94-121., Registrované v: WOS
4. [1.1] ZHU, Xiaolan - XU, Yingbo - ZHOU, Shun - YANG, Jun - GAO, Yun. Simultaneous Structural and Quantitative Analysis of Starch from Flue-Cured Tobacco Leaves by C-13 CP/MAS NMR Spectroscopy. In *CURRENT ANALYTICAL CHEMISTRY*. ISSN 1573-4110, 2018, vol. 14, no. 2, pp. 166-173., Registrované v: WOS
5. [1.2] SZEWCZYK, Katarzyna - HEISE, Esther Marie - PIWOWARSKI, Jakub P. Preliminary Characterization and Bioactivities of Some *Impatiens* L. Water-Soluble Polysaccharides. In *Molecules*, 2018-01-01, 23, 3, pp., Registrované v: SCOPUS
- ADCA268 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - VALACHOVIČ, P. Comparison of classical and ultrasound-assisted extraction of polysaccharides from *Salvia officinalis* L. In *Ultrasonics Sonochemistry*, 1999, vol. 5, p. 163-168. (1998: 1.000 - IF, karentované - CCC). (1999 - Current Contents). ISSN 1350-4177.

## Citácie:

1. [1.1] BABAMORADI, Nastaran - YOUSEFI, Shima - ZIARATI, Parisa. Optimization of ultrasound-assisted extraction of functional polysaccharides from common mullein (*Verbascum thapsus* L.) flowers. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2018, vol. 41, no. 7, pp., Registrované v: WOS
2. [1.1] BAHMANI, Leila - ABOONAJMI, Mohammad - ARABHOSSEINI, Akbar - MIRSAEEDGHAZI, Hossein. Effects of ultrasound pre-treatment on quantity and quality of essential oil of tarragon (*Artemisia dracunculus* L.) leaves. In JOURNAL OF APPLIED RESEARCH ON MEDICINAL AND AROMATIC PLANTS. ISSN 2214-7861, 2018, vol. 8, no., pp. 47-52., Registrované v: WOS
3. [1.1] MUATASIM, Rahma - MA, Haile - YANG, Xue. Effect of multimode ultrasound assisted extraction on the yield of crude polysaccharides from *Lycium Barbarum* (Goji). In FOOD SCIENCE AND TECHNOLOGY. ISSN 0101-2061, 2018, vol. 38, no., pp. 160-166., Registrované v: WOS

ADCA269

HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Ultrasonic extraction of plant materials- investigation of hemicellulose release from buckwheat hulls. In Ultrasonics Sonochemistry, 2003, vol.10, p. 127-133. ISSN 1350-4177.

## Citácie:

1. [1.1] KIM, Hyun Kyung - KIM, Young Ho - KIM, Young Eon - JUNG, Sung Keun - LEE, Nam Hyouck - SONG, Kyung-Mo. Effects of salts on ultrasonic extraction of protein from porcine myocardium. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2018, vol. 108, no., pp. 12-17., Registrované v: WOS
2. [1.1] LI, Han-Yin - CHEN, Xue - LI, Yi-Jing - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2018, vol. 191, no., pp. 364-369., Registrované v: WOS
3. [1.1] MARZUKI, Nur Haziqah Che - HAMID, Mariani Abdul - WAHAB, Roswanira Abdul. Assessment of fatty acid composition and response surface optimization of ultrasonic-assisted extraction of phenolic compounds from *Pouteria campechiana* pulp. In MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES. ISSN 2289-5981, 2018, vol. 14, no. 2, pp. 269-277., Registrované v: WOS
4. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS
5. [1.1] WANG, Kunli - LI, Mo - WEN, Xin - CHEN, Xiaosong - HE, Zhengyu - NI, Yuanying. Optimization of ultrasound-assisted extraction of okra (*Abelmoschus esculentus* (L.) Moench) polysaccharides based on response surface methodology and antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 114, no., pp. 1056-1063., Registrované v: WOS
6. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from *Eucalyptus grandis*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS
7. [1.1] YASEMI, Mahnaz - HEYDARINASAB, Amir - RAHIMI, Masoud - ARDJMAND, Mehdi. Microchannel as a Green Processes, Compared to Conventional Methods for Extraction of Quercitannin. In JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN. ISSN 0253-5106, 2018, vol. 40, no. 1, pp. 33-42., Registrované v: WOS

ADCA270

HROŇSKÁ, Helena - MASTIHUBA, Vladimír - TOKOŠOVÁ, Silvia - ROSENBERG, Michal. Semicontinual synthesis of alkyl galactosides using  $\beta$ -galactosidase entrapped in polyvinylalcohol hydrogel. In Biocatalysis and Biotransformation, 2016, vol. 34, p. 219-225. (2015: 0.892 - IF, Q4 - JCR, 0.293 - SJR, Q3 - SJR). ISSN 1024-2422.

## Citácie:

1. [1.1] OGAWA, Shigesaburo - TAKAHASHI, Isao - KOGA, Maito - ASAKURA, Kouichi - OSANAI, Shuichi. Effect of Freeze-Thaw Treatment on the Precipitation of Octyl beta-D-Galactoside Hemihydrate Crystal from the Aqueous Solution. In JOURNAL OF OLEO SCIENCE. ISSN 1345-8957, 2018, vol. 67, no. 5, pp. 627-637., Registrované v: WOS

ADCA271

HUDEC, J. - BURDOVÁ, M. - KOPIDA, L. - KOMORA, L. - MACHO, V. - KOGAN, Grigorij - TURIANICA, Ivan - KOCHANOVÁ, R. - LOŽEK, Otto - HABÁN, M. - CHLEBO, Peter. Antioxidant capacity changes and phenolic profile of *Echinacea purpurea*, nettle (*Urtica dioica* L.), and dandelion (*Taraxacum officinale*) after application of polyamine and phenolic biosynthesis regulators. In Journal of Agricultural and Food Chemistry, 2007, vol. 55, p. 5689-5696. (2007 - Current Contents). ISSN 0021-8561.

## Citácie:



1. [1.1] BILAL, Muhammad - IQBAL, Muhammad S. - SHAH, Syed B. - RASHEED, Tahir - IQBAL, Hafiz M. N. Diabetic Complications and Insight into Antidiabetic Potentialities of Ethno-Medicinal Plants: A Review. In RECENT PATENTS ON INFLAMMATION & ALLERGY DRUG DISCOVERY. ISSN 1872-213X, 2018, vol. 12, no. 1, pp. 7-23., Registrované v: WOS
  2. [1.1] BRUNI, Renato - BRIGHENTI, Virginia - CAESAR, Lindsay K. - BERTELLI, Davide - CECH, Nadja B. - PELLATI, Federica. Analytical methods for the study of bioactive compounds from medicinally used Echinacea species. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2018, vol. 160, no., pp. 443-477., Registrované v: WOS
  3. [1.1] IBRAHIM, Muhammad - REHMAN, Kanwal - RAZZAQ, Aneez - HUSSAIN, Iqbal - FAROOQ, Tahir - HUSSAIN, Amjad - AKASH, Muhammad Sajid Hamid. Investigations of Phytochemical Constituents and Their Pharmacological Properties Isolated from the Genus *Urtica*: Critical Review and Analysis. In CRITICAL REVIEWS IN EUKARYOTIC GENE EXPRESSION. ISSN 1045-4403, 2018, vol. 28, no. 1, pp. 25-66., Registrované v: WOS
  4. [1.1] IVANOV, Ivan - PETKOVA, Nadezhda - TUMBARSKI, Julian - DINCHEVA, Ivayla - BADJAKOV, Ilian - DENEV, Panteley - PAVLOV, Atanas. GC-MS characterization of n-hexane soluble fraction from dandelion (*Taraxacum officinale* Weber ex FH Wigg.) aerial parts and its antioxidant and antimicrobial properties. In ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES. ISSN 0939-5075, 2018, vol. 73, no. 1-2, pp. 41-47., Registrované v: WOS
  5. [1.1] LIS, Bernadetta - JEDREJEK, Dariusz - STOCHMAL, Anna - OLAS, Beata. Assessment of effects of phenolic fractions from leaves and petals of dandelion in selected components of hemostasis. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 107, no., pp. 605-612., Registrované v: WOS
  6. [1.1] SHARIFI-RAD, Mehdi - ROBERTS, Thomas H. - MATTHEWS, Karl R. - BEZERRA, Camila F. - MORAIS-BRAGA, Maria Flaviana B. - COUTINHO, Henrique D. M. - SHAROPOV, Farukh - SALEHI, Bahare - YOUSAF, Zubaida - SHARIFI-RAD, Majid - DEL MAR CONTRERAS, Maria - VARONI, Elena Maria - VERMA, Deepa R. - IRITI, Marcello - SHARIFI-RAD, Javad. Ethnobotany of the genus *Taraxacum*-Phytochemicals and antimicrobial activity. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, 2018, vol. 32, no. 11, pp. 2131-2145., Registrované v: WOS
- ADCA272 HUDEC, Jozef - KOCHANOVÁ, Radka - BURDOVÁ, Mária - KOBIDA, Ľubomír - KOGAN, Grigorij - TURIANICA, Ivan - CHLEBO, Peter - HANÁČKOVÁ, Eva - SLAMKA, Pavol. Regulation of the phenolic profile of berries can increase their antioxidant activity. In Journal of Agricultural and Food Chemistry, 2009, vol. 57, p. 2022-2029.
- Citácie:
1. [1.1] LU, Yue-hong - TIAN, Cheng-rui - GAO, Chun-yan - ZHANG, Run-guang - GUO, Qi - MU, Chang-lei. Nutritional profiles, phenolics, and DNA damage protective effect of *Lycopus lucidus* Turcz. root at different harvest times. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2018, vol. 20, no., pp. S3062-S3077., Registrované v: WOS
- ADCA273 HUMENÍK, K. - KUTSCHKY, P. - VALKOVÁ, K. - HORVÁTH, B. - KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka. Synthesis of  $\beta$ -D-glucopyranosides of 6-substituted 2-(indol-3-yl)benzothiazoles. In Collection of Czechoslovak Chemical Communications, 1975, vol. 70, p. 72-84. ISSN 0010-0765.
- Citácie:
1. [1.1] HUA, Min - WANG, Chunqin - LIU, Qixing - CHEN, Danyi - FU, Hao - ZHOU, Haifeng. SILVER-MEDIATED 2-ARYLATION/ALKYLATION/ACYLATION OF BENZOTHIAZOLES WITH ALDEHYDES IN WATER. In HETEROCYCLES. ISSN 0385-5414, 2018, vol. 96, no. 7, pp. 1226-1237., Registrované v: WOS
- ADCA274 HUMENÍK, M. - KUTSCHY, P. - KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka. 1,2-Anhydrosaccharides and 1,2-cyclic sulfites in saccharide donors in convergent synthesis of glucopyranosyl-, mannopyranosyl- and ribofuranosylbenzocamalexinl. In Collection of Czechoslovak Chemical Communications, 2005, vol. 70, p. 487-506. (2004: 1.062 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0010-0765.
- Citácie:
1. [1.1] ROUDIAS, Majdouline - VALLEE, Frederic - MARTEL, Julien - PAQUIN, Jean-Francois. Use of XtalFluor-E as an Alternative to POCI<sub>3</sub> in the Vilsmeier Haack Formylation of C-2-Glycols. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 15, pp. 8731-8738., Registrované v: WOS
- ADCA275 HURAN, Jozef - VALOVIČ, Albín - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - BORZAKOV, S.B. - KLEINOVÁ, Angela - SEKÁČOVÁ, Mária - ARBET, Juraj - SASINKOVÁ, Vlasta. The effect of neutron irradiation on the properties of SiC and SiC(N) layer prepared by plasma enhanced chemical vapor deposition. In Applied Surface Science, 2013, vol. 269, p. 88-91. (2012:

2.112 - IF, 0.918 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0169-4332.

Citácie:

1. [1.1] BASKAR, S. - NALINI, P. Influence of In-Situ Annealing of Si-Rich Silicon Carbide Thin Films. In JOURNAL OF SURFACE SCIENCE AND TECHNOLOGY. DEC 2018, vol. 34, no. 3-4, p. 116-120., Registrované v: WOS

2. [1.1] YOSHIMURA, S. - SUGIMOTO, S. - TAKEUCHI, T. - MURAI, K. - KIUCHI, M. Identification of fragment ions produced from hexamethyldisilazane and production of low-energy mass-selected fragment ion beam. In NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS. SEP 1 2018, vol. 430, p. 1-5., Registrované v: WOS

ADCA276 HUSÁROVÁ, Slavomíra - MATULOVÁ, Mária - CAPEK, Peter - SANCELME, Martine - DELORT, Anne-Marie. Exopolysacharidy produkované Bacillus sp 3B6, baktériou izolovanou z oblačnej vody. In Chemické Listy, 2011, vol. 105, p. 397. (2010: 0.620 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0009-2770.

Citácie:

1. [1.1] FEDOROVA, Monika - PROKES, Marian - PISTL, Juraj - NEMCOVA, Radomira. Exopolysaccharides as Important Probiotic Products. In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 11, pp. 770-776., Registrované v: WOS

ADCA277 HUSÁROVÁ, Slavomíra - VAITILINGOM, Mickael - DEGUILLAUME, Laurent - TRAIKIA, Mounir - VINATIER, Virginie - SANCELME, Martine - AMATO, Pierre - MATULOVÁ, Mária - DELORT, Anne-Marie. Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry. In Atmospheric Environment, 2011, vol. 45, p. 6093-6102. (2010: 3.226 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1352-2310.

Citácie:

1. [1.1] DU, Pengrui - DU, Rui - REN, Weishan - LU, Zedong - FU, Pingqing. Seasonal variation characteristic of inhalable microbial communities in PM2.5 in Beijing city, China. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2018, vol. 610, no., pp. 308-315., Registrované v: WOS

ADCA278 HUSHEGYI, András - DAMBORSKÁ, Dominika - BERTÓK, Tomáš - ADAM, Vojtech - KIZEK, René - TKÁČ, Ján. Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. In Biosensors and Bioelectronics, 2016, vol. 79, p. 644-649. (2015: 7.476 - IF, Q1 - JCR, 2.044 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0956-5663.

Citácie:

1. [1.1] ASTILL, Jake - FRASER, Evan - DARA, Rozita - SHARIF, Shayan. Detecting and Predicting Emerging Disease in Poultry With the Implementation of New Technologies and Big Data: A Focus on Avian Influenza Virus. In FRONTIERS IN VETERINARY SCIENCE. ISSN 2297-1769, 2018, vol. 5, no., pp., Registrované v: WOS

2. [1.1] CUI, Feiyun - XU, Yi - WANG, Renjie - LIU, Haitao - CHEN, Li - ZHANG, Qing - MU, Xiaojing. Label-free impedimetric glycan biosensor for quantitative evaluation interactions between pathogenic bacteria and mannose. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 103, no., pp. 94-98., Registrované v: WOS

3. [1.1] DZIABOWSKA, Karolina - CZACZYK, Elzbieta - NIDZWORSKI, Dawid. Detection Methods of Human and Animal Influenza Virus-Current Trends. In BIOSENSORS-BASEL. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS

4. [1.1] HASSANPOUR, Soodabeh - BARADARAN, Behzad - HEJAZI, Maryam - HASANZADEH, Mohammad - MOKHTARZADEH, Ahad - DE LA GUARDIA, Miguel. Recent trends in rapid detection of influenza infections by bio and nanobiosensor. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2018, vol. 98, no., pp. 201-215., Registrované v: WOS

5. [1.1] KUMAR, Ramya - WELLE, Alexander - BECKER, Fabian - KOPYEVA, Irma - LAHANN, Joerg. Substrate-Independent Micropatterning of Polymer Brushes Based on Photolytic Deactivation of Chemical Vapor Deposition Based Surface-Initiated Atom-Transfer Radical Polymerization Initiator Films. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 38, pp. 31965-31976., Registrované v: WOS

6. [1.1] LAKSHMIPRIYA, Thangavel - GOPINATH, Subash C. B. - HASHIM, Uda. Influenza viral detection on microfluidic delivery assisted biosensors. In MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS. ISSN 0946-7076, 2018, vol. 24, no. 2, pp. 823-830., Registrované v: WOS

7. [1.1] PASHCHENKO, Oleksandra - SHELBY, Tyler - BANERJEE, Tuhina - SANTRA, Santimukul. A Comparison of Optical, Electrochemical, Magnetic, and Colorimetric Point-of-Care Biosensors for Infectious Disease Diagnosis. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2018, vol. 4, no. 8, pp. 1162-1178., Registrované v: WOS

8. [1.1] TEPELI, Yudum - ANIK, Ulku. Electrochemical biosensors for influenza virus a detection: The potential of adaptation of these devices to POC systems. In SENSORS AND ACTUATORS B-

- CHEMICAL. ISSN 0925-4005, 2018, vol. 254, no., pp. 377-384., Registrované v: WOS
9. [1.1] WALPER, Scott A. - ARAGONES, Guillermo Lasarte - SAPSFORD, Kim E. - BROWN, Carl W. - ROWLAND, Clare E. - BREGER, Joyce C. - MEDINTZ, Igor L. *Detecting Biothreat Agents: From Current Diagnostics to Developing Sensor Technologies*. In ACS SENSORS. ISSN 2379-3694, 2018, vol. 3, no. 10, pp. 1894-2024., Registrované v: WOS
10. [1.1] WANG, Jun - MA, Kui - YIN, Huanshun - ZHOU, Yunlei - AI, Shiyun. *Aptamer based voltammetric determination of ampicillin using a single-stranded DNA binding protein and DNA functionalized gold nanoparticles*. In MICROCHIMICA ACTA. ISSN 0026-3672, 2018, vol. 185, no. 1, pp., Registrované v: WOS
11. [1.1] WANG, Yue - ZHOU, Yunlei - XU, Lv - HAN, Zhenwei - YIN, Huanshun - AI, Shiyun. *Photoelectrochemical apta-biosensor for zeatin detection based on graphene quantum dots improved photoactivity of graphite-like carbon nitride and streptavidin induced signal inhibition*. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 257, no., pp. 237-244., Registrované v: WOS
12. [1.1] YANG, Jong Min - KIM, Kyeong Rok - KIM, Chang Sup. *Biosensor for Rapid and Sensitive Detection of Influenza Virus*. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 4, pp. 371-382., Registrované v: WOS
- ADCA279 HUSHEGYI, András - BERTÓK, Tomáš - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - TKÁČ, Ján. An ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. In Chemical Communication, 2015, vol. 51, p. 7474-7477. (2014: 6.834 - IF, Q1 - JCR, 2.692 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1359-7345.
- Citácie:
1. [1.1] AYDIN, Elif Burcu - AYDIN, Muhammet - SEZGINTURK, Mustafa Kemal. *Highly sensitive electrochemical immunosensor based on polythiophene polymer with densely populated carboxyl groups as immobilization matrix for detection of interleukin 1 beta in human serum and saliva*. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2018, vol. 270, no., pp. 18-27., Registrované v: WOS
2. [1.1] CUI, Feiyun - XU, Yi - WANG, Renjie - LIU, Haitao - CHEN, Li - ZHANG, Qing - MU, Xiaojing. *Label-free impedimetric glycan biosensor for quantitative evaluation interactions between pathogenic bacteria and mannose*. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 103, no., pp. 94-98., Registrované v: WOS
3. [1.1] DZIABOWSKA, Karolina - CZACZYK, Elzbieta - NIDZWORSKI, Dawid. *Detection Methods of Human and Animal Influenza Virus-Current Trends*. In BIOSENSORS-BASEL. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS
4. [1.1] HORSLEY, John R. - YU, Jingxian - WEGENER, Kate L. - HOPPMANN, Christian - RUECK-BRAUN, Karola - ABELL, Andrew D. *Photoswitchable peptide-based 'on-off' biosensor for electrochemical detection and control of protein-protein interactions*. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2018, vol. 118, no., pp. 188-194., Registrované v: WOS
5. [1.1] LIU, Hai-Peng - MENG, Xin - YU, Qun - TAO, Yun-Chang - XU, Fei - HE, Yun - YU, Peng - YANG, Yang. *Synthesis of S-sialyl polymers as efficient polyvalent influenza inhibitors and capturers*. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 1, pp. 18-29., Registrované v: WOS
6. [1.1] WALPER, Scott A. - ARAGONES, Guillermo Lasarte - SAPSFORD, Kim E. - BROWN, Carl W. - ROWLAND, Clare E. - BREGER, Joyce C. - MEDINTZ, Igor L. *Detecting Biothreat Agents: From Current Diagnostics to Developing Sensor Technologies*. In ACS SENSORS. ISSN 2379-3694, 2018, vol. 3, no. 10, pp. 1894-2024., Registrované v: WOS
7. [1.1] YANG, Jong Min - KIM, Kyeong Rok - KIM, Chang Sup. *Biosensor for Rapid and Sensitive Detection of Influenza Virus*. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, 2018, vol. 23, no. 4, pp. 371-382., Registrované v: WOS
- ADCA280 HUSHEGYI, András - TKÁČ, Ján. Are glycan biosensors an alternative to glycan microarrays? In Analytical Methods, 2014, vol. 6, p. 6610-6620. (2013: 1.938 - IF, 0.614 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1759-9660.
- Citácie:
1. [1.1] NAGAE, Masamichi - YAMAGUCHI, Yoshiki. *Biophysical Analyses for Probing Glycan-Protein Interactions*. In GLYCOBIOPHYSICS. ISSN 0065-2598, 2018, vol. 1104, no., pp. 119-147., Registrované v: WOS
- ADCA281 HUSZÁR, Stanislav - SINGH, Vinayak - POLČICOVÁ, Alica - BARÁTH, Peter - BARRIO, María Belén - LAGRANGE, Sophie - LEBLANC, Véronique - NACY, Carol A. - MIZRAHI, Valerie - MIKUŠOVÁ, Katarína. N-Acetylglucosamine-1-phosphate transferase, WecA, as a validated drug target in Mycobacterium tuberculosis. In Antimicrobial Agents and Chemotherapy, 2017, vol. 61, p. e01310-17. (2016: 4.302 - IF, Q1 - JCR, 2.275 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0066-4804.



## Citácie:

- ADCA282 1. [1.1] EVANS, Joanna C. - MIZRAHI, Valerie. Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents. In *CURRENT OPINION IN MICROBIOLOGY*. ISSN 1369-5274, 2018, vol. 45, no., pp. 39-46., Registrované v: WOS
- HÝROŠOVÁ, E. - FIŠERA, L. - JAME, R.M.-A. - PRÓNAYOVÁ, N. - MEDVECKÝ, M. - KOŮŠ, Miroslav. Priming the tuberculosis drug pipeline: new antimycobacterial targets and agents 2';-oxa-3';-aza-nucleosides. In *Chemistry of Heterocyclic Compounds*, 2007, vol. 43, p. 10-17. ISSN 0009-3122.
- Citácie:
- ADCA283 1. [1.1] HALAY, Erkan - AY, Emriye - SALVA, Emine - AY, Kadir - KARAYILDIRIM, Tamer. Synthesis of triazolylmethyl-linked nucleoside analogs via combination of azidofuranoses with propargylated nucleobases and study on their cytotoxicity. In *CHEMISTRY OF HETEROCYCLIC COMPOUNDS*. ISSN 0009-3122, 2018, vol. 54, no. 2, pp. 158-166., Registrované v: WOS
- CHOCHOLOVÁ, Erika, Došeková - FILIP, Jaroslav - BERTÓK, Tomáš - BOTH, Peter - KASÁK, Peter - TKÁČ, Ján. Nanotechnology in glycomics: Applications in diagnostics, therapy, imaging, and separation precesses. In *Medicinal Research Reviews*, 2017, vol. 37, p. 514-626. (2016: 8.763 - IF, Q1 - JCR, 2.701 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0198-6325.
- Citácie:
- ADCA284 1. [1.1] BOTH, Peter - RIESE, Michel - GRAY, Christopher J. - HUANG, Kun - PALLISTER, Edward G. - KOSOV, Iaroslav - CONWAY, Louis P. - VOGLMEIR, Josef - FLITSCH, Sabine L. Applications of a highly alpha 2,6-selective pseudosialidase. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 5, pp. 261-268., Registrované v: WOS
2. [1.1] GOUD, Rayapolu Ranga - KRISHNAVENI, Gunnala - PATRO, Girija Prasad. SOLUBILITY AND BIOAVAILABILITY ENHANCEMENT STRATEGIES FOR EFFECTIVE DELIVERY OF POORLY WATER SOLUBLE DRUGS BY NANO FORMULATIONS AND SOLID DISPERSIONS. In *INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 2349-7750, 2018, vol. 5, no. 2, pp. 1028-1034., Registrované v: WOS
3. [1.1] GUAN, Ce - ZHAO, Yangyang - HOU, Yiting - SHAN, Guiye - YAN, Dongmei - LIU, Yichun. Glycosylated liposomes loading carbon dots for targeted recognition to HepG2 cells. In *TALANTA*. ISSN 0039-9140, 2018, vol. 182, no., pp. 314-323., Registrované v: WOS
- CHOI, Ji Won - SYNNTSYA, Andriy - CAPEK, Peter - BLEHA, Roman - POHL, Radek - PARK, Yong Il. Structural analysis and anti-obesity effect of a pectic polysaccharide isolated from Korean mulberry fruit Oddi (*Morus alba* L.). In *Carbohydrate Polymers*, 2016, vol. 146, p. 187-196. (2015: 4.219 - IF, Q1 - JCR, 1.460 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] CHAI, Zhi - HUANG, Wuyang - ZHAO, Xue - WU, Han - ZENG, Xiaoxiong - LI, Chunyang. Preparation, characterization, antioxidant activity and protective effect against cellular oxidative stress of polysaccharide from *Cynanchum auriculatum* Royle ex Wight. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 1068-1076., Registrované v: WOS
2. [1.1] CHANG, BoYoon - KOO, BongSeong - LEE, HyeonCheol - OH, Joa Sub - KIM, SungYeon. Activation of macrophage mediated host defense against *Salmonella typhimurium* by *Morus alba* L. In *FOOD & NUTRITION RESEARCH*. ISSN 1654-6628, 2018, vol. 62, no., pp., Registrované v: WOS
3. [1.1] CHEN, Hu - YU, Wansha - CHEN, Guo - MENG, Shuai - XIANG, Zhonghuai - HE, Ningjia. Antinociceptive and Antibacterial Properties of Anthocyanins and Flavonols from Fruits of Black and Non-Black Mulberries. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 1, pp., Registrované v: WOS
4. [1.1] CHEN, Yufeng - JIN, Lu - LI, Yunhong - XIA, Guobin - CHEN, Chun - ZHANG, Ying. Bamboo-shaving polysaccharide protects against high-diet induced obesity and modulates the gut microbiota of mice. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 49, no., pp. 20-31., Registrované v: WOS
5. [1.1] HE, Xirui - FANG, Jiacheng - RUAN, Yinlan - WANG, Xiaoxiao - SUN, Yin - WU, Ni - ZHAO, Zefeng - CHANG, Yu - NING, Ning - GUO, Hao - HUANG, Linhong. Structures, bioactivities and future prospective of polysaccharides from *Morus alba* (white mulberry): A review. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp. 899-910., Registrované v: WOS
6. [1.1] LI, Saijuan - LI, Meixia - YUE, Han - ZHOU, Lishuang - HUANG, Lulin - DU, Zhenyun - DING, Kan. Structural elucidation of a pectic polysaccharide from *Fructus Mori* and its bioactivity on intestinal bacteria strains. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 186, no., pp. 168-175., Registrované v: WOS
7. [1.1] LIAO, Bu-Yan - HU, Hai-Mei - THAKUR, Kiran - CHEN, Gui-Hai - LI, Ling - WEI, Zhao-

*Jun. HYPOGLYCEMIC ACTIVITY AND THE COMPOSITION ANALYSIS OF THE POLYSACCHARIDE EXTRACTED FROM THE FRUIT OF MORI MULTICAULIS. In CURRENT TOPICS IN NUTRACEUTICAL RESEARCH. ISSN 1540-7535, 2018, vol. 16, no. 1, pp. 1-8., Registrované v: WOS*

8. [1.1] LIU, Ji-Luan - YANG, Li-Cong - ZHU, Xiao-Juan - WANG, We-Jun - ZHENG, Guo-Dong. Combinational Effect of Pine Needle Polysaccharide and Kudzu Flavonoids on Cell Differentiation and Fat Metabolism in 3T3-L1 Cells. In FOOD SCIENCE AND TECHNOLOGY RESEARCH. ISSN 1344-6606, 2018, vol. 24, no. 5, pp. 903-910., Registrované v: WOS

9. [1.1] LIU, Juan - ZHAO, Yupeng - WU, Qixian - JOHN, Afiya - JIANG, Yueming - YANG, Jiali - LIU, Huiling - YANG, Bao. Structure characterisation of polysaccharides in vegetable "okra" and evaluation of hypoglycemic activity. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 242, no., pp. 211-216., Registrované v: WOS

10. [1.1] RAHMAN, Heshu Sulaiman - MUHAMMAD, Karwan Sidiq - SATTAR, Faraidoun Abdul - ABDULLAH, Rasedee - OTHMAN, Hemn Hassan - YEAP, Swee Keong - CHARTRAND, Max Stanley - AMIN, Kawa Muhamad. The Effectiveness of Super Ovulation and Multiple Pregnancies in Sprague Dawley Rat using Morus alba Linn. Fruit. In INTERNATIONAL JOURNAL OF MEDICAL RESEARCH & HEALTH SCIENCES. ISSN 2319-5886, 2018, vol. 7, no. 1, pp. 17-26., Registrované v: WOS

11. [1.1] XU, Yaqin - GAO, Yankang - LIU, Fei - NIU, Xiaojie - WANG, Libo - LI, Xingguo - CHEN, Hongchao - YANG, Yu. Sulfated modification of the polysaccharides from blackcurrant and their antioxidant and alpha-amylase inhibitory activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 1344-1354., Registrované v: WOS

12. [1.1] XU, Yaqin - GUO, Yingying - DUAN, Suyang - WEI, Hong - LIU, Yusong - WANG, Libo - HUO, Xin - YANG, Yu. Effects of ultrasound irradiation on the characterization and bioactivities of the polysaccharide from blackcurrant fruits. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2018, vol. 49, no., pp. 206-214., Registrované v: WOS

13. [1.1] XU, Yaqin - GUO, Yingying - GAO, Yankang - NIU, Xiaojie - WANG, Libo - LI, Xingguo - CHEN, Hongchao - YU, Zeyuan - YANG, Yu. Separation, characterization and inhibition on alpha-glucosidase, alpha-amylase and glycation of a polysaccharide from blackcurrant fruits. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 93, no., pp. 16-23., Registrované v: WOS

14. [1.1] XU, Yaqin - NIU, Xiaojie - LIU, Ningyue - GAO, Yankang - WANG, Libo - XU, Gang - LI, Xingguo - YANG, Yu. Characterization, antioxidant and hypoglycemic activities of degraded polysaccharides from blackcurrant (Ribes nigrum L.) fruits. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 243, no., pp. 26-35., Registrované v: WOS

15. [1.1] ZHANG, Tiehua - YANG, Yang - LIANG, Yuan - JIAO, Xu - ZHAO, Changhui. Beneficial Effect of Intestinal Fermentation of Natural Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2018, vol. 10, no. 8, pp., Registrované v: WOS

16. [1.2] GUO, Sen - BAI, Lu - HO, Chi Tang - BAI, Naisheng. Characteristic Components, Biological Activities and Future Prospective of Fructus Mori: a Review. In Current Pharmacology Reports, 2018-06-01, 4, 3, pp. 210-219., Registrované v: SCOPUS

ADCA285 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef. Effect of ultrasonicated carboxymethylglucan on cyclophosphamide induced mutagenicity. In Mutation Research: Genetic Toxicology and Environmental Mutagenesis, 1996, vol. 371, no.1-2, p. 115-120. ISSN 0165-1218.

Citácie:

1. [1.1] LIU, F. - WANG, Z.Z. - LIU, J. - LI, W.J. Radioprotective effect of orally administered beta-D-glucan derived from Saccharomyces cerevisiae. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, p. 572-579., Registrované v: WOS

ADCA286 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef - KOGAN, Grigorij. Protective effect of the yeast glucomannan against cyclophosphamide-induced mutagenicity. In Mutation Research: Genetic Toxicology and Environmental Mutagenesis, 1999, vol. 444, no. 1, p. 117-122. (1999 - Current Contents). ISSN 1383-5718.

Citácie:

1. [1.1] BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - KIELISZEK, Marek - POBIEGA, Katarzyna - FALANA, Katarzyna - JANOWICZ, Monika. Modification of the cell wall structure of Saccharomyces cerevisiae strains during cultivation on waste potato juice water and glycerol towards biosynthesis of functional polysaccharides. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 281, no., pp. 1-10., Registrované v: WOS

2. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of Drosophila melanogaster. A genetic study using the wing spot assay. In ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY. ISSN 1382-6689, 2018,

- vol. 57, no., pp. 28-33., Registrované v: WOS
- ADCA287 CHRISTOV, L. - BIELY, Peter - KALOGERIS, E. - CHRISTAKOPOULOS, P. - PRIOR, B.A. - BHAT, M.K. Effects of purified endo-beta-1,4-xylanases of family 10 and 11 and acetyl xylan esterases on eucalypt sulfite dissolving pulp. In *Journal of Biotechnology*, 2000, vol. 83, p. 231-244. ISSN 0168-1656.
- Citácie:
1. [1.1] MA, Xiaojuan - HUANG, Hai - HUANG, Fang - LONG, Yunduo - CAO, Shilin - CHEN, Lihui - HUANG, Liulian - NI, Yonghao. Synergistic effects of enzyme pretreatment for hemicellulose separation from paper-grade pulp in ionic liquid/water. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 7, pp. 4193-4198., Registrované v: WOS
- ADCA288 ILČÍKOVÁ, Markéta - FILIP, Jaroslav - MRLÍK, Miroslav - PLACHÝ, Tomáš - TKÁČ, Ján - KASÁK, Peter. Polypyrrole nanotubes decorated with gold particles applied for construction of enzymatic bioanodes and biocathodes. In *International Journal of Electrochemical Science*, 2015, vol. 10, p. 6558-6571. (2014: 1.500 - IF, Q3 - JCR, 0.533 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1452-3981.
- Citácie:
1. [1.1] KIZLING, Michal - DZWONEK, Maciej - WIECKOWSKA, Agnieszka - BILEWICZ, Renata. Gold nanoparticles in bioelectrocatalysis The role of nanoparticle size. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 12, no., pp. 113-120., Registrované v: WOS
2. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
3. [1.1] STEJSKAL, Jaroslav - TRCHOVA, Miroslava. Conducting polypyrrole nanotubes: a review. In *CHEMICAL PAPERS*. ISSN 2585-7290, 2018, vol. 72, no. 7, pp. 1563-1595., Registrované v: WOS
- ADCA289 ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. Switchable materials containing polyzwitterion moieties. In *Polymers*, 2015, vol. 7, p. 2344-2370. (2014: 3.681 - IF, Q1 - JCR, 1.114 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 2073-4360.
- Citácie:
1. [1.1] CHEN, Guang - PATWARY, Jahin - SACHAR, Harnoor Singh - DAS, Siddhartha. Electrokinetics in nanochannels grafted with poly-zwitterionic brushes Guang. In *MICROFLUIDICS AND NANOFUIDICS*. ISSN 1613-4982, 2018, vol. 22, no. 10, pp., Registrované v: WOS
2. [1.1] HERNANDEZ-VARGAS, Gustavo - PONCE-PONCE DE LEON, Cesar Alejandro - GONZALEZ-VALDEZ, Jose - IQBAL, Hafiz M. N. "Smart" Polymers: Physicochemical Characteristics and Applications in Bio-Separation Strategies. In *SEPARATION AND PURIFICATION REVIEWS*. ISSN 1542-2119, 2018, vol. 47, no. 3, pp. 199-213., Registrované v: WOS
3. [1.1] NIEBUUR, Bart-Jan - PUCHMAYR, Jonas - HEROLD, Christian - KREUZER, Lucas P. - HILDEBRAND, Viet - MUELLER-BUSCHBAUM, Peter - LASCHEWSKY, Andre - PAPADAKIS, Christine M. Polysulfobetaines in Aqueous Solution and in Thin Film Geometry. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 5, pp., Registrované v: WOS
4. [1.1] SILIES, Laura - ANDRIEU-BRUNSEN, Annette. Programming Ionic Pore Accessibility in Zwitterionic Polymer Modified Nanopores. In *LANGMUIR*. ISSN 0743-7463, 2018, vol. 34, no. 3, pp. 807-816., Registrované v: WOS
5. [1.1] XIAO, Shengwei - REN, Baiping - HUANG, Lei - SHEN, Mingxue - ZHANG, Yanxian - ZHONG, Mingqiang - YANG, Jintao - ZHENG, Jie. Salt-responsive zwitterionic polymer brushes with anti-polyelectrolyte property. In *CURRENT OPINION IN CHEMICAL ENGINEERING*. ISSN 2211-3398, 2018, vol. 19, no., pp. 86-93., Registrované v: WOS
6. [1.1] XIAO, Shengwei - ZHANG, Yanxian - SHEN, Mingxue - CHEN, Feng - FAN, Ping - ZHONG, Mingqiang - REN, Baiping - YANG, Jintao - ZHENG, Jie. Structural Dependence of Salt-Responsive Polyzwitterionic Brushes with an Anti-Polyelectrolyte Effect. In *LANGMUIR*. ISSN 0743-7463, 2018, vol. 34, no. 1, pp. 97-105., Registrované v: WOS
7. [1.2] ARJUNAN VASANTHA, Vivek - OH BIYING, Algin - PARTHIBAN, Anbanandam. Polysulfobetaine bearing tertiary amide between counterions and its applications. In *Journal of Applied Polymer Science*. ISSN 00218995, 2018-04-20, 135, 16, pp., Registrované v: SCOPUS
- ADCA290 ISRAILIDES, C. - KLETSAS, D. - ARAPOGLOU, D. - PHILIPPOUSSIS, A. - PRATSISNIS, H. - EBRINGEROVÁ, Anna - HRÍBALOVÁ, V. - HARDING, S.E. In vitro cytostatic and immunomodulatory properties of the medicinal mushroom *Lentinula edodes*. In *Phytomedicine*, 2008, vol. 15, p. 512-519.
- Citácie:
1. [1.1] AHMAD, Md Faruque. *Ganoderma lucidum*: Persuasive biologically active constituents



- and their health endorsement. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 107, no., pp. 507-519., Registrované v: WOS
2. [1.1] AYEKA, Peter Amwoga. Potential of Mushroom Compounds as Immunomodulators in Cancer Immunotherapy: A Review. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2018, vol., no., pp., Registrované v: WOS
3. [1.1] DENG, Shengming - ZHANG, Guoxi - KUAI, Jiajie - FAN, Peng - WANG, Xuexiang - ZHOU, Pei - YANG, Dan - ZHENG, Xichen - LIU, Xiaomei - WU, Qunli - HUANG, Yuhui. Lentinan inhibits tumor angiogenesis via interferon gamma and in a T cell independent manner. In *JOURNAL OF EXPERIMENTAL & CLINICAL CANCER RESEARCH*. ISSN 1756-9966, 2018, vol. 37, no., pp., Registrované v: WOS
4. [1.1] FINIMUNDY, Tiane C. - SCOLA, Gustavo - SCARIOT, Fernando J. - DILLON, Aldo J. P. - MOURA, Sidnei - ECHEVERRIGARAY, Sergio - HENRIQUES, Joao Pegas - ROESCH-ELY, Mariana. Extrinsic and Intrinsic Apoptotic Responses Induced by Shiitake Culinary-Medicinal Mushroom *Lentinus edodes* (Agaricomycetes) Aqueous Extract against a Larynx Carcinoma Cell Line. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 1, pp. 31-46., Registrované v: WOS
5. [1.1] KIM, Hee-Young - PARK, Kun-Young. Clinical trials of kimchi intakes on the regulation of metabolic parameters and colon health in healthy Korean young adults. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 47, no., pp. 325-333., Registrované v: WOS
6. [1.1] KUPCOVA, Kristyna - STEFANOVA, Iveta - PLAVCOVA, Zuzana - HOSEK, Jan - HROUZEK, Pavel - KUBEC, Roman. Antimicrobial, Cytotoxic, Anti-Inflammatory, and Antioxidant Activity of Culinary Processed Shiitake Medicinal Mushroom (*Lentinus edodes*, Agaricomycetes) and Its Major Sulfur Sensory-Active Compound-Lenthionine. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 2, pp. 165-175., Registrované v: WOS
7. [1.1] SARI, Miriam - TOEPLER, Katharina - NICKISCH-HARTFIEL, Anna - TEUSCH, Nicole - HAMBITZER, Reinhard. Cross-Flow Ultrafiltration Fractions of a Cold Aqueous Extract of the Shiitake Culinary-Medicinal Mushroom, *Lentinus edodes* (Agaricomycetes), Exhibit Apoptosis in Tumor Cells. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 11, pp. 1107-1119., Registrované v: WOS

ADCA291

JAKUBÍKOVÁ, Lucia - FARKAŠ, Vladimír - KOLAROVA, Nadežda - NEMČOVIČ, Marek. Conidiation of *Trichoderma atroviride* isolate during submerged cultivation in a laboratory stirred-tank fermenter. In *Folia Microbiologica*, 2006, vol. 51, p. 209-213. (2005: 0.977 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0015-5632.

Citácie:

1. [1.1] DE ANDRADE CARVALHO, Andre Luiz - DE REZENDE, Larissa Castro - COSTA, Lucio Bertoldo - HALFELD-VIEIRA, Bernardo de Almeida - PINTO, Zayame Vegette - BOECHAT MORANDI, Marcelo Augusto - VASCONCELOS DE MEDEIROS, Flavio Henrique - BETTIOL, Wagner. Optimizing the mass production of *Clonostachys rosea* by liquid-state fermentation. In *BIOLOGICAL CONTROL*. ISSN 1049-9644, 2018, vol. 118, no., pp. 16-25., Registrované v: WOS

ADCA292

JANÁK, Marián - FROITZHEIM, Nikolaus - YOSHIDA, Kenta - SASINKOVÁ, Vlasta - NOSKO, Martin - KOBAYASHI, T. - HIRAJIMA, Takao - VRABEC, Mirjam. Diamond in metasedimentary crustal rocks from Pohorje, Eastern Alps: a window to deep continental subduction. In *Journal of Metamorphic Geology*, 2015, vol. 33, p. 495-512. (2014: 4.147 - IF, Q1 - JCR, 3.481 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0263-4929.

Citácie:

1. [1.1] ARGNANI, A. Subduction Evolution of the Dinarides and the Cretaceous Orogeny in the Eastern Alps: Hints From a New Paleotectonic Interpretation. In *TECTONICS*. ISSN 0278-7407, 2018, vol. 37, no. 2, pp. 621-635., Registrované v: WOS
2. [1.1] DOBRZHINETSKAYA, Larissa - MUKHIN, Pavel - WANG, Qin - WIRTH, Richard - O'BANNON, Earl - ZHAO, Wenxia - EPPELBAUM, Lev - SOKHONCHUK, Tatiana. Moissanite (SiC) with metal-silicide and silicon inclusions from tuff of Israel: Raman spectroscopy and electron microscope studies. In *LITHOS*. ISSN 0024-4937, 2018, vol. 310, no., pp. 355-368., Registrované v: WOS
3. [1.1] GRIFFIN, William L. - HUANG, Jin-Xiang - THOMASSOT, Emilie - GAIN, Sarah E. M. - TOLEDO, Vered - O'REILLY, Suzanne Y. Super-reducing conditions in ancient and modern volcanic systems: sources and behaviour of carbon-rich fluids in the lithospheric mantle. In *MINERALOGY AND PETROLOGY*. ISSN 0930-0708, 2018, vol. 112, no., pp. 101-114., Registrované v: WOS
4. [1.1] HERG, Alexandra - STUEWE, Kurt. Tectonic interpretation of the metamorphic field gradient south of the Koralpe in the Eastern Alps. In *AUSTRIAN JOURNAL OF EARTH SCIENCES*. ISSN 2072-7151, 2018, vol. 111, no. 2, pp. 155-+, Registrované v: WOS
5. [1.1] TOBOLA, Tomasz. Raman spectroscopy of organic, solid and fluid inclusions in the

- Oldest Halite of LGOM area (SW Poland). In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2018, vol. 189, no., pp. 381-392., Registrované v: WOS*
6. [1.2] REISER, Martin Kaspar - ŠABÁU, Gavril - NEGULESCU, Elena - SCHUSTER, Ralf - TROPPER, Peter - FÜGENSCHUH, Bernhard. Post-Variscan metamorphism in the Apuseni and Rodna Mountains (Romania): evidence from Sm–Nd garnet and U–Th–Pb monazite dating. In *Swiss Journal of Geosciences. ISSN 16618726, 2018-01-01, pp., Registrované v: SCOPUS*
7. [2.1] NEUBAUER, Franz - HEBERER, Bianca - DUNKL, Istvan - LIU, Xiaoming - BERNROIDER, Manfred - DONG, Yunpeng. The Oligocene Reifnitz tonalite (Austria) and its host rocks: implications for Cretaceous and Oligocene-Neogene tectonics of the south-eastern Eastern Alps. In *GEOLOGICA CARPATHICA. ISSN 1335-0552, 2018, vol. 69, no. 3, pp. 237-253., Registrované v: WOS*
- ADCA293 JANOŠ, Pavel - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Three-dimensional homology model of GlcNAc-TV glycosyltransferase. In *Glycobiology*, 2016, vol. 26, p. 757-771. (2015: 3.283 - IF, Q2 - JCR, 1.638 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0959-6658.
- Citácie:
1. [1.1] NAGAE, Masamichi - KIZUKA, Yasuhiko - MIHARA, Emiko - KITAGO, Yu - HANASHIMA, Shinya - ITO, Yukishige - TAKAGI, Junichi - TANIGUCHI, Naoyuki - YAMAGUCHI, Yoshiki. Structure and mechanism of cancer-associated N-acetylglucosaminyltransferase-V. In *NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS*
- ADCA294 JANOŠ, Pavel - TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Different QM/MM approaches to elucidate enzymatic reactions: Case study on ppGalNAcT2. In *Journal of Chemical Theory and Computation*, 2016, vol. 12, p. 6062-6076. (2015: 5.301 - IF, Q1 - JCR, 2.702 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1549-9618.
- Citácie:
1. [1.1] NOCENTINI, Alessio - CARTA, Fabrizio - TANC, Muhammet - SELLERI, Silvia - SUPURAN, Claudiu T. - BAZZICALUPI, Carla - GRATTERI, Paola. Deciphering the Mechanism of Human Carbonic Anhydrases Inhibition with Sulfocoumarins: Computational and Experimental Studies. In *CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 31, pp. 7840-7844., Registrované v: WOS*
- ADCA295 JAYSON, Gordon C. - MILLER, Gavin J. - HANSEN, Steen U. - BARÁTH, Marek - GARDINER, John M. - AVIZIENYTE, Egle. The development of anti-angiogenic heparan sulfate oligosaccharides. In *Biochemical Society Transactions*, 2014, vol. 42, p. 1596-1600. (2013: 3.238 - IF, 2.011 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0300-5127.
- Citácie:
1. [1.1] KANG, Hongyan - WU, Qihong - SUN, Anqiang - LIU, Xiao - FAN, Yubo - DENG, Xiaoyan. Cancer Cell Glycocalyx and Its Significance in Cancer Progression. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 9, pp., Registrované v: WOS*
- ADCA296 JIN, L. - HRICOVÍNI, Miloš - DEAKIN, J.A. - LYON, Malcolm - UHRIN, D. Residual dipolar coupling investigation of a heparin tetrasaccharide confirms the limited effect of flexibility of the oduronic acid on the molecular shape of heparin. In *Glycobiology*, 2009, vol. 19, p. 1185-1196. (2008: 4.446 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0959-6658.
- Citácie:
1. [1.1] NAGAE, Masamichi - YAMAGUCHI, Yoshiki. Biophysical Analyses for Probing Glycan-Protein Interactions. In *GLYCOBIOPHYSICS. ISSN 0065-2598, 2018, vol. 1104, no., pp. 119-147., Registrované v: WOS*
2. [1.1] NIETO, Pedro M. The Use of NMR to Study Transient Carbohydrate-Protein Interactions. In *FRONTIERS IN MOLECULAR BIOSCIENCES*, 2018, vol. 5, no., pp., Registrované v: WOS
3. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In *CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS*
- ADCA297 JOHANSSON, K. - EL-AHMAD, M. - FRIEMANN, R. - JORNVALL, H. - MARKOVIČ, Oskar - EKLUND, Robert C. Crystal structure of plant pectin methylesterase. In *FEBS Letters*, 2002, vol. 514, p. 243-249. ISSN 1873-3468.
- Citácie:
1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview. In *LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS*
2. [1.1] HUA, Xiao - YANG, Hui - DIN, Ping - CHI, Kunrui - YANG, Ruijin. Rheological

- properties of deesterified pectin with different methoxylation degree. In FOOD BIOSCIENCE. ISSN 2212-4292, 2018, vol. 23, no., pp. 91-99., Registrované v: WOS*
3. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. *Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS*
4. [1.1] KOTNALA, Bhavya - SHASHIREKHA, M. N. - VASU, Prasanna. *Purification and Characterization of a Salt-Dependent Pectin Methyltransferase from Carica papaya Fruit Mesocarp-Exocarp Tissue. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2018, vol. 83, no. 8, pp. 2062-2070., Registrované v: WOS*
5. [1.1] LIU, Nana - SUN, Yun - PEI, Yakun - ZHANG, Xueyan - WANG, Ping - LI, Xiancai - LI, Fuguang - HOU, Yuxia. *A Pectin Methyltransferase Inhibitor Enhances Resistance to Verticillium Wilt. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2202-2220., Registrované v: WOS*
6. [1.1] RAJULAPATI, Vikky - SHARMA, Kedar - DHILLON, Arun - GOYAL, Arun. *SAXS and homology modelling based structure characterization of pectin methyltransferase a family 8 carbohydrate esterase from Clostridium thermocellum ATCC 27405. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2018, vol. 641, no., pp. 39-49., Registrované v: WOS*
7. [1.1] SUN, Bai - MAO, Shuangshuo - ZHU, Shouhui - ZHOU, Guangdong - XIA, Yudong - ZHAO, Yong. *Improved Rate and Cycling Performances of Electrodes Based on BiFeO<sub>3</sub> Nanoflakes by Compositing with Organic Pectin for Advanced Rechargeable Na-Ion Batteries. In ACS APPLIED NANO MATERIALS. ISSN 2574-0970, 2018, vol. 1, no. 3, pp. 1291-1299., Registrované v: WOS*
8. [3.2] Group Author(s). *Uniprot Consortium. P83218. IN: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/P83218>, Registrované v: Data Citation Index*

ADCA298 JOLLY, Pawan - DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - SOARES, Ruben - CHU, Virginia - CUNDI, Joao P. - KATRLÍK, Jaroslav - ESTRELA, Pedro. *DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. In Biosensors and Bioelectronics, 2016, vol. 79, p. 313-319. (2015: 7.476 - IF, Q1 - JCR, 2.044 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0956-5663.*

Citácie:

- [1.1] HAYES, Bryony - MURPHY, Caroline - CRAWLEY, Aoife - O';KENNEDY, Richard. *Developments in Point-of-Care Diagnostic Technology for Cancer Detection. In DIAGNOSTICS. ISSN 2075-4418, 2018, vol. 8, no. 2, pp., Registrované v: WOS*
- [1.1] KANITTHAMNIYOM, Pojchanun - ZHANG, Yi. *Application of polydopamine in biomedical microfluidic devices. In MICROFLUIDICS AND NANOFUIDICS. ISSN 1613-4982, 2018, vol. 22, no. 3, pp., Registrované v: WOS*
- [1.1] KIZER, Megan - LI, Peiqin - CRESS, Brady F. - LIN, Lei - JING, Tom T. - ZHANG, Xing - XIA, Ke - LINHARDT, Robert J. - WANG, Xing. *RNA Aptamers with Specificity for Heparosan and Chondroitin Glycosaminoglycans. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 10, pp. 13667-13675., Registrované v: WOS*
- [1.1] MAZAAFRIANTO, Donny Nugraha - MAEKI, Masatoshi - ISHIDA, Akihiko - TANI, Hirofumi - TOKESHI, Manabu. *Recent Microdevice-Based Aptamer Sensors. In MICROMACHINES. ISSN 2072-666X, 2018, vol. 9, no. 5, pp., Registrované v: WOS*
- [1.1] PARRA, Joao P. R. L. L. - CRULHAS, Bruno P. - BASSO, Caroline R. - DELELLA, Flavia K. - CASTRO, Gustavo R. - PEDROSA, Valber A. *Using an Electrochemical Aptasensor to Early Detect Prostate Specific and Free Prostate Specific Antigens Released by Cancer Cells. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 12, pp. 2869-2877., Registrované v: WOS*

ADCA299 JOLLY, Pawan - FORMISANO, Nello - TKÁČ, Ján - KASÁK, Peter - FROST, Christopher - ESTRELA, Pedro. *Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. In Sensors and Actuators B-Chemical, 2015, vol. 209, p. 306-312. (2014: 4.097 - IF, Q1 - JCR, 1.229 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0925-4005.*

Citácie:

- [1.1] ARGOUBI, Wicem - SANCHEZ, Alfredo - PARRADO, Concepcion - RAOUAFI, Nouredine - VILLALONGA, Reynaldo. *Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prostate specific antigen. In SENSORS AND ACTUATORS B-CHEMICAL, 2018, vol. 255, no., pp. 309-315., Registrované v: WOS*
- [1.1] CHANG, Yong - WANG, Mengmeng - WANG, Luyan - XIA, Ning. *Recent Progress in Electrochemical Biosensors for Detection of Prostate-Specific Antigen. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2018, vol. 13, no. 5, pp. 4071-*



4084., Registrované v: WOS

3. [1.1] FARZIN, Leila - SHAMSIPUR, Mojtaba. Recent advances in design of electrochemical affinity biosensors for low level detection of cancer protein biomarkers using nanomaterial-assisted signal enhancement strategies. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2018, vol. 147, no., pp. 185-210., Registrované v: WOS

4. [1.1] GONZALEZ-FERNANDEZ, Eva - STADERINI, Matteo - AVLONITIS, Nicolaos - MURRAY, Alan F. - MOUNT, Andrew R. - BRADLEY, Mark. Effect of spacer length on the performance of peptide-based electrochemical biosensors for protease detection. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 255, no., pp. 3040-3046., Registrované v: WOS

5. [1.1] MAVRIKOU, Sophie - MOSCHOPOULOU, Georgia - ZAFEIRAKIS, Athanasios - KALOGEROPOULOU, Konstantina - GIANNAKOS, Georgios - SKEVIS, Athanasios - KINTZIOS, Spyridon. An Ultra-Rapid Biosensory Point-of-Care (POC) Assay for Prostate-Specific Antigen (PSA) Detection in Human Serum. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 11, pp., Registrované v: WOS

6. [1.1] OLIVEIRA, Nelia - COSTA-RAMA, Estefania - VISWANATHAN, Subramanian - DELERUE-MATOS, Cristina - PEREIRA, Lourdes - MORAIS, Simone. Label-free Voltammetric Immunosensor for Prostate Specific Antigen Detection. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 11, pp. 2604-2611., Registrované v: WOS

7. [1.2] HONIKEL, Mackenzie M. - LIN, Chi En - PROBST, David - LA BELLE, Jeffrey T. Facilitating earlier diagnosis of cardiovascular disease through point-of-care biosensors: A review. In *Critical Reviews in Biomedical Engineering*. ISSN 0278940X, 2018-01-01, 46, 1, pp. 53-82., Registrované v: SCOPUS

ADCA300

JOLLY, Pawan - ZHURAUSKI, Pavel - HAMMOND, Jules L. - MIODEK, Anna - LIÉBANA, Susana - BERTÓK, Tomáš - TKÁČ, Ján - ESTRELA, Pedro. Self-assembled gold nanoparticles for impedimetric and amperometric detection of a prostate cancer biomarker. In *Sensors and Actuators B: Chemical*, 2017, vol. 251, p. 637-643. (2016: 5.401 - IF, Q1 - JCR, 1.343 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0925-4005.

Citácie:

1. [1.1] BIZID, Salma - BLILI, Saber - MLIKA, Rym - SAID, Ayoub Haj - KORRI-YOUSSOUFI, Hafsa. Direct E-DNA sensor of Mycobacterium tuberculosis mutant strain based on new nanocomposite transducer (Fc-ac-OMPA/MWCNTs). In *TALANTA*. ISSN 0039-9140, 2018, vol. 184, no., pp. 475-483., Registrované v: WOS

2. [1.1] CHANG, Yong - WANG, Mengmeng - WANG, Luyan - XIA, Ning. Recent Progress in Electrochemical Biosensors for Detection of Prostate-Specific Antigen. In *INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE*. ISSN 1452-3981, 2018, vol. 13, no. 5, pp. 4071-4084., Registrované v: WOS

3. [1.1] GAN, Ning - XIE, Linshun - ZHANG, Kai - CAO, Yuting - HU, Futao - LI, Tianhua. An endonuclease-linked multiplex immunoassay for tumor markers detection based on microfluidic chip electrophoresis for DNA analysis. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 272, no., pp. 526-533., Registrované v: WOS

4. [1.1] LAI, Yuxuan - DENG, Yan - YANG, Gaojian - LI, Song - ZHANG, Chuanxiang - LIU, Xueying. Molecular Imprinting Polymers Electrochemical Sensor Based on AuNPs/PTh Modified GCE for Highly Sensitive Detection of Carcinomaembryonic Antigen. In *JOURNAL OF BIOMEDICAL NANOTECHNOLOGY*. ISSN 1550-7033, 2018, vol. 14, no. 10, pp. 1688-1694., Registrované v: WOS

5. [1.1] LAI, Yuxuan - WANG, Lijun - LIU, Yuan - YANG, Gaojian - TANG, Congli - DENG, Yan - LI, Song. Immunosensors Based on Nanomaterials for Detection of Tumor Markers. In *JOURNAL OF BIOMEDICAL NANOTECHNOLOGY*. ISSN 1550-7033, 2018, vol. 14, no. 1, pp. 44-65., Registrované v: WOS

6. [1.1] LIU, Guangxing - ZHANG, Tian - TANG, Yuguo - MIAO, Peng. An ultrasensitive aptasensor for prostate specific antigen assay based on Exonuclease T-aided cyclic cleavage. In *SCIENCE CHINA-CHEMISTRY*. ISSN 1674-7291, 2018, vol. 61, no. 4, pp. 393-396., Registrované v: WOS

7. [1.2] CAMPUZANO, Susana - YÁÑEZ-SEDEÑO, Paloma - PINGARRÓN, José M. Electrochemical nucleic acid sensors based on nanomaterials for medical diagnostics. In *Nanotechnology and Biosensors*, 2018-01-01, pp. 319-351., Registrované v: SCOPUS

8. [1.2] OCAÑA, Cristina - DEL VALLE, Manel. Impedimetric aptasensors using nanomaterials. In *Nanotechnology and Biosensors*, 2018-01-01, pp. 233-267., Registrované v: SCOPUS

ADCA301

JÚDOVÁ, Jana - ŠUTKA, R. - KLAUDINY, Jaroslav - LIŠKOVÁ, Desana - OW, D.W. - ŠIMÚTH, Jozef. Transformation of tobacco plants with cDNA encoding honeybee royal jelly MRJP1. In *Biologia Plantarum*, 2004, vol. 48, p. 185-191. (2003: 0.919 - IF). ISSN 0006-3134.

## Citácie:

1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

ADCA302

KAČURÁKOVÁ, Marta - BELTON, P.S. - WILSON, R.H. - HIRSCH, Ján - EBRINGEROVÁ, Anna. Hydration properties of xylan-type structures: an FTIR study of xylooligosaccharides. In *Journal of the Science of Food and Agriculture*, 1998, vol. 77, no. 1, p. 38-44.

## Citácie:

1. [1.1] BALACHANDRAMOHAN, Jayachandrabal - ANANDAN, Sambandam - SIVASANKAR, Thirugnanasambandam. A simple approach for the sonochemical synthesis of Fe<sub>3</sub>O<sub>4</sub>-guar gum nanocomposite and its catalytic reduction of p-nitroaniline. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2018, vol. 40, no., pp. 1-10., Registrované v: WOS
2. [1.1] BALACHANDRAMOHAN, Jayachandrabal - SIVASANKAR, Thirugnanasambandam. Ultrasound assisted synthesis of guar gum-zero valent iron nanocomposites as a novel catalyst for the treatment of pollutants. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 41-50., Registrované v: WOS
3. [1.1] BENITEZ, Jose J. - CASTILLO, Paula M. - DEL RIO, Jose C. - LEON-CAMACHO, Manuel - DOMINGUEZ, Eva - HEREDIA, Antonio - GUZMAN-PUYOL, Susana - ATHANASSIOU, Athanassia - HEREDIA-GUERRERO, Jose A. Valorization of Tomato Processing by-Products: Fatty Acid Extraction and Production of Bio-Based Materials. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 11, pp., Registrované v: WOS
4. [1.1] CARRILLO, Isabel - TEIXEIRA MENDONÇA, Regis - AGO, Mariko - ROJAS, Orlando J. Comparative study of cellulosic components isolated from different Eucalyptus species. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 2, pp. 1011-1029., Registrované v: WOS
5. [1.1] MITTAL, Neeraj - KAUR, Gurpreet. Amination of a Natural Polymer, Leucaena leucocephala (Lam.) galactomannan: Synthesis, Optimization and Characterization. In *JOURNAL OF POLYMER MATERIALS*. ISSN 0973-8622, 2018, vol. 35, no. 4, pp. 433-448., Registrované v: WOS
6. [1.1] OZPARPUCU, Merve - GIERLINGER, Notburga - BURGERT, Ingo - VAN ACKER, Rebecca - VANHOLME, Ruben - BOERJAN, Wout - PILATE, Gilles - DEJARDIN, Annabelle - RUGGEBERG, Markus. The effect of altered lignin composition on mechanical properties of CINNAMYL ALCOHOL DEHYDROGENASE (CAD) deficient poplars. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 4, pp. 887-897., Registrované v: WOS
7. [1.1] REMON, Javier - SANTOMAURO, Fabio - CHUCK, Christopher J. - MATHARU, Avtar S. - CLARK, James H. Production of fermentable species by microwave-assisted hydrothermal treatment of biomass carbohydrates: reactivity and fermentability assessments. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 19, pp. 4507-4520., Registrované v: WOS
8. [1.1] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-Soluble Polysaccharides of Alfalfa (Medicago sativa (Fabaceae)) of Flora of Krasnoyarsk Krai. In *RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY*. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 854-859., Registrované v: WOS
9. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from Eucalyptus grandis. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS
10. [1.1] YUE, Pan-Pan - FU, Gen-Que - HU, Ya-Jie - BIAN, Jing - LI, Ming-Fei - SHI, Zheng-Jun - PENG, Feng. Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (Neosinocalamus affinis) Culms. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 35, pp. 9199-9208., Registrované v: WOS
11. [1.1] YUN, Liyuan - WU, Tao - LIU, Rui - LI, Kun - ZHANG, Min. Structural Variation and Microrheological Properties of a Homogeneous Polysaccharide from Wheat Germ. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 11, pp. 2977-2987., Registrované v: WOS
12. [1.1] ZHAO, Yuan - WANG, Shurong - LIN, Haizhou - CHEN, Jingping - XU, Hao. Influence of a Lewis acid and a Bronsted acid on the conversion of microcrystalline cellulose into 5-hydroxymethylfurfural in a single-phase reaction system of water and 1,2-dimethoxyethane. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 13, pp. 7235-7242., Registrované v: WOS
13. [1.2] EVSTAF'EV, S. N. - KHOANG, K. K. Ultrasonic treatment wheat straw in the environment 1-butyl-3-methylimidazolium chloride. In *Khimiya Rastitel'nogo Syr'ya*. ISSN 10295151, 2018-01-01, 1, pp. 5-12., Registrované v: SCOPUS

ADCA303

KAČURÁKOVÁ, Marta - EBRINGEROVÁ, Anna - HIRSCH, Ján - HROMÁDKOVÁ, Zdenka. Infrared study of arabinoxylans. In *Journal of the Science of Food and Agriculture*, 1994, vol. 66, no.

3, p. 423-427.

Citácie:

1. [1.1] AKKUS, Merve - OZKAN, Necati - BAKIR, Ufuk. Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 8, pp. 3397-3403., Registrované v: WOS
2. [1.1] BAHRAHMA, Khatereh - FATEHI, Pedram. Synthesis and Characterization of Carboxyethylated Lignosulfonate. In *CHEMSUSCHEM*. ISSN 1864-5631, 2018, vol. 11, no. 17, pp. 2967-2980., Registrované v: WOS
3. [1.1] BALACHANDRAMOHAN, Jayachandrabal - ANANDAN, Sambandam - SIVASANKAR, Thirugnanasambandam. A simple approach for the sonochemical synthesis of Fe<sub>3</sub>O<sub>4</sub>-guargum nanocomposite and its catalytic reduction of p-nitroaniline. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2018, vol. 40, no., pp. 1-10., Registrované v: WOS
4. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
5. [1.1] KHAT-UDOMKIRI, Nuntawat - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - LAILERD, Narissara - PEERAJAN, Sartjin - CHAIYASUT, Chaiyavat. Optimization of alkaline pretreatment and enzymatic hydrolysis for the extraction of xylooligosaccharide from rice husk. In *AMB EXPRESS*. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
6. [1.1] LI, Han-Yin - CHEN, Xue - LI, Yi-Jing - CAO, Xue-Fei - SUN, Shao-Ni - SUN, Run-Cang. The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2018, vol. 191, no., pp. 364-369., Registrované v: WOS
7. [1.1] REN, Junli - DAI, Qingqing - ZHONG, Haoquan - LIU, Xinxin - MENG, Ling - WANG, Xiaohui - XIN, Fengxue. Quaternized xylan/cellulose nanocrystal reinforced magnetic hydrogels with high strength. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4537-4549., Registrované v: WOS
8. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS
9. [1.1] WHITE, Kathryn E. - COALE, Frank J. - REEVES, James B. Degradation changes in plant root cell wall structural molecules during extended decomposition of important agricultural crop and forage species. In *ORGANIC GEOCHEMISTRY*. ISSN 0146-6380, 2018, vol. 115, no., pp. 233-245., Registrované v: WOS
10. [1.1] XAVIER, Janifer Raj - RAMANA, Karna Venkata - SHARMA, Rakesh Kumar. Production of a thermostable and alkali resistant endoxylanase by *Bacillus subtilis* DFR40 and its application for preparation of prebiotic xylooligosaccharides. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 5, pp., Registrované v: WOS
11. [1.1] YUE, Pan-Pan - FU, Gen-Que - HU, Ya-Jie - BIAN, Jing - LI, Ming-Fei - SHI, Zheng-Jun - PENG, Feng. Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (*Neosinocalamus affinis*) Culms. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 35, pp. 9199-9208., Registrované v: WOS
12. [1.1] ZHAO, Wenhong - CHEN, Hui - WU, Ligen - MA, Weibin - XIE, Yanli. Antioxidant properties of feruloylated oligosaccharides of different degrees of polymerization from wheat bran. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2018, vol. 35, no. 6, pp. 547-559., Registrované v: WOS
13. [1.2] ODIYO, John O. - EDOKPAYI, Joshua N. Physico-chemical and surface characterisation of a renewable low-cost biosorbent for the uptake of heavy metal ions from aqueous solution. In *WIT Transactions on Ecology and the Environment*. ISSN 1746448X, 2018-01-01, 228, pp. 317-327., Registrované v: SCOPUS

ADCA304

KAČURÁKOVÁ, Marta - WILSON, R.H. Developments in mid-infrared FT-IR spectroscopy of selected carbohydrates. In *Carbohydrate Polymers*, 2001, vol. 44, p. 291-303. (2000: 1.184 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] BLEHA, Roman - BRINDZA, Jan - CAPEK, Peter - SINICA, Andrej. ISOLATION OF POLYSACCHARIDE AND SPOROPOLLENIN FROM SUNFLOWER BEE POLLEN CELL WALLS. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, vol., no., pp. 31-36., Registrované v: WOS
2. [1.1] CHEN, Xingjuan - SONG, Da - XU, Jingjing - LI, Enze - SUN, Guoping - XU, Meiyang.



- Role and mechanism of cell-surface hydrophobicity in the adaptation of Sphingobium hydrophobicum to electronic-waste contaminated sediment. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2803-2815., Registrované v: WOS*
3. [1.1] COIMBRA, Manuel A. - ROCHA, Silvia M. - MARTINS, Catia - BARROS, Antonio S. *Methodologies for Improved Quality Control Assessment of Food Products. In ADVANCES IN FOOD DIAGNOSTICS, 2ND EDITION, 2017, vol., no., pp. 13-61., Registrované v: WOS*
4. [1.1] DEVAUX, Marie-Francoise - JAMME, Frederic - ANDRE, William - BOUCHET, Brigitte - ALVARADO, Camille - DURAND, Sylvie - ROBERT, Paul - SAULNIER, Luc - BONNIN, Estelle - GUILLON, Fabienne. *Synchrotron Time-Lapse Imaging of Lignocellulosic Biomass Hydrolysis: Tracking Enzyme Localization by Protein Autofluorescence and Biochemical Modification of Cell Walls by Microfluidic Infrared Microspectroscopy. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS*
5. [1.1] GHANNAM, Ahmed - MURAD, Hossam - JAZZARA, Marie - ODEH, Adnan - ALLAF, Abdul Wahab. *Isolation, Structural characterization, and antiproliferative activity of phycocolloids from the red seaweed Laurencia papillosa on MCF-7 human breast cancer cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 916-926., Registrované v: WOS*
6. [1.1] GIERLINGER, Notburga. *New insights into plant cell walls by vibrational microspectroscopy. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS*
7. [1.1] GILL, Abid Nazir - IFTIKHAR, Areeba - RASHID, Ayoub - AMIN, Muhammad - KHAN, Rana Rashad Mahmood - RAFIQUE, Hafiz M. - JELANI, Seemal - ADNAN, Ahmad. *Lipase-catalyzed green synthesis of starch-maleate monoesters and its characterization. In JOURNAL OF THE IRANIAN CHEMICAL SOCIETY. ISSN 1735-207X, 2018, vol. 15, no. 9, pp. 1939-1945., Registrované v: WOS*
8. [1.1] HARRISON, D. - RIVARD, B. - SANCHEZ-AZOFEIFA, A. *Classification of tree species based on longwave hyperspectral data from leaves, a case study for a tropical dry forest. In INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION. ISSN 0303-2434, 2018, vol. 66, no., pp. 93-105., Registrované v: WOS*
9. [1.1] HOFER, Alexandra - KAMRAVAMANESH, Donya - BONA-LOVASZ, Judit - LIMBECK, Andreas - LENDL, Bernhard - HERWIG, Christoph - FRICKE, Jens. *Prediction of filamentous process performance attributes by CSL quality assessment using mid-infrared spectroscopy and chemometrics. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2018, vol. 265, no., pp. 93-100., Registrované v: WOS*
10. [1.1] KRASZNAI, Daniel J. - HARTLEY, Rachel Champagne - ROY, Hannah M. - CHAMPAGNE, Pascale - CUNNINGHAM, Michael F. *Compositional analysis of lignocellulosic biomass: conventional methodologies and future outlook. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 199-217., Registrované v: WOS*
11. [1.1] MA, Yuhan - HE, Huaqi - WU, Jingzhu - WANG, Chunyang - CHAO, Kuanglin - HUANG, Qing. *Assessment of Polysaccharides from Mycelia of genus Ganoderma by Mid-Infrared and Near-Infrared Spectroscopy. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS*
12. [1.1] MONEO-SANCHEZ, M. - IZQUIERDO, L. - MARTIN, I. - HERNANDEZ-NISTAL, J. - ALBORNOS, L. - DOPICO, B. - LABRADOR, E. *Knockout mutants of Arabidopsis thaliana beta-galactosidase. Modifications in the cell wall saccharides and enzymatic activities. In BIOLOGIA PLANTARUM. ISSN 0006-3134, 2018, vol. 62, no. 1, pp. 80-88., Registrované v: WOS*
13. [1.1] POURFARZAD, Amir - AHMADIAN, Zahra - HABIBI-NAJAFI, Mohammad B. *Interactions between polyols and wheat biopolymers in a bread model system fortified with inulin: A Fourier transform infrared study. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 12, pp., Registrované v: WOS*
14. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. *Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS*
15. [1.1] YANG, Wei-Wei - WANG, Li-Ming - GONG, Li-Li - LU, Yong-Ming - PAN, Wen-Juan - WANG, Ya - ZHANG, Wen-Na - CHEN, Yan. *Structural characterization and antioxidant activities of a novel polysaccharide fraction from the fruiting bodies of Craterellus cornucopioides. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 473-482., Registrované v: WOS*
16. [1.2] GURDEBEKE, Pieter R. - MERTENS, Kenneth Neil - BOGUS, Kara - MARRET, Fabienne - CHOMÉRAT, Nicolas - VRIELINCK, Henk - LOUWYE, Stephen. *Taxonomic Re-Investigation and Geochemical Characterization of Reid's (1974) Species of Spiniferites from Holotype and Topotype Material. In Palynology. ISSN 01916122, 2018-12-20, 42, sup1, pp. 93-*

110., Registrované v: SCOPUS

17. [1.2] KAMINARI, Agathi Anthoula - BOYATZIS, Stamatis C. - ALEXOPOULOU, Athina. *Linking Infrared Spectra of Laboratory Iron Gall Inks Based on Traditional Recipes with their Material Components*. In *Applied Spectroscopy*. ISSN 00037028, 2018-10-01, 72, 10, pp. 1511-1527., Registrované v: SCOPUS

18. [1.2] LUO, Zhaohe - LIM, Zhen Fei - MERTENS, Kenneth Neil - GURDEBEKE, Pieter - BOGUS, Kara - CARBONELL-MOORE, M. Consuelo - VRIELINCK, Henk - LEAW, Chui Pin - LIM, Po Teen - CHOMÉRAT, Nicolas - LI, Xintian - GU, Haifeng. *Morpho-molecular diversity and phylogeny of Bysmatrum (Dinophyceae) from the South China Sea and France*. In *European Journal of Phycology*. ISSN 09670262, 2018-07-03, 53, 3, pp. 318-335., Registrované v: SCOPUS

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KAČURÁKOVÁ, Marta - WELLNER, N. - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - WILSON, R.H. - BELTON, P.S. *Characterisation of xylan-type polysaccharides and associated cell wall components by FT-IR and FT-Raman spectroscopies*. In *Food Hydrocolloids*, 1999, vol. 13, p. 35-41. ISSN 0268-005X.

Citácie:

1. [1.1] BANDARA, Nandika - WU, Jianping. *Chemically Modified Canola Protein-Nanomaterial Hybrid Adhesive Shows Improved Adhesion and Water Resistance*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 1, pp. 1152-1161., Registrované v: WOS

2. [1.1] CHEN, Yajie - JIANG, Xue - XIE, Hongqing - LI, Xiaotong - SHI, Liangen. *Structural characterization and antitumor activity of a polysaccharide from ramulus mori*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 190, no., pp. 232-239., Registrované v: WOS

3. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. *Preparation and Characterization of Xylan Derivatives and Their Blends*. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT*. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS

4. [1.1] CHOI, Yu-Ra - CHANG, Yoon Hyuk. *Microencapsulation of gallic acid through the complex of whey protein concentrate-pectic polysaccharide extracted from Ulmus davidiana*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 85, no., pp. 222-228., Registrované v: WOS

5. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. *Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS

6. [1.1] DEVAUX, Marie-Francoise - JAMME, Frederic - ANDRE, William - BOUCHET, Brigitte - ALVARADO, Camille - DURAND, Sylvie - ROBERT, Paul - SAULNIER, Luc - BONNIN, Estelle - GUILLON, Fabienne. *Synchrotron Time-Lapse Imaging of Lignocellulosic Biomass Hydrolysis: Tracking Enzyme Localization by Protein Autofluorescence and Biochemical Modification of Cell Walls by Microfluidic Infrared Microspectroscopy*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

7. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. *Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose*. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS

8. [1.1] GIERLINGER, Notburga. *New insights into plant cell walls by vibrational microspectroscopy*. In *APPLIED SPECTROSCOPY REVIEWS*. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS

9. [1.1] JIANG, Zhicheng - BUDARIN, Vitaliy L. - FAN, Jiajun - REMON, Javier - LI, Tianzong - HU, Changwei - CLARK, James H. *Sodium Chloride-Assisted Depolymerization of Xylo-oligomers to Xylose*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 4098-+, Registrované v: WOS

10. [1.1] JNAWALI, Prakriti - KUMAR, Vikas - TANWAR, Beenu - HIRDIYANI, Harsha - GUPTA, Prerna. *Enzymatic Production of Xylooligosaccharides from Brown Coconut Husk Treated with Sodium Hydroxide*. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 10, pp. 1757-1766., Registrované v: WOS

11. [1.1] KERROUCHE, Djamilia - SADOUD, Tahar - ROUBA, Nabila - SOTCLET, G. - SOL, Vincent - GLOAGUEN, Vincent - CHALEIX, Vincent. *Synthesis and characterization of xylan-graft-poly(L-lactide)*. In *INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION*. ISSN 1023-666X, 2018, vol. 23, no. 3, pp. 193-206., Registrované v: WOS

12. [1.1] KHAT-UDOMKIRI, Nuntawat - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - LAILERD, Narissara - PEERAJAN, Sartjin - CHAIYASUT, Chaiyavat. *Optimization of alkaline pretreatment and enzymatic hydrolysis for the extraction of xylooligosaccharide from rice*

husk. In *AMB EXPRESS*. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS  
 13. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS  
 14. [1.1] TROSHCHYNSKA, Yana - SINICA, Andrej - STETINA, Jiri - SILVA, Soraia - FERREIRA, Sonia - COELHO, Elisabete - COIMBRA, Manuel A. FRACTIONATION OF FLAXSEED MUSILAGE POLYSACCHARIDES BY CHEMICAL AND SEPARATION METHODS. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, vol., no., pp. 73-77., Registrované v: WOS

ADCA306

**KAČURÁKOVÁ, Marta** - MATHLOUTHI, M. FTIR and laser-Raman spectra of oligosaccharides in water: Characterization of the glycosidic bond. In *Carbohydrate Research*, 1996, vol. 284, no. 2, p. 145-157. (1995: 1.506 - IF). ISSN 0008-6215.

Citácie:

1. [1.1] ALLAN, Matthew C. - RAJWA, Bartek - MAUER, Lisa J. Effects of sugars and sugar alcohols on the gelatinization temperature of wheat starch. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 84, no., pp. 593-607., Registrované v: WOS
2. [1.1] AMI, Diletta - MEREGHETTI, Paolo - LERI, Manuela - GIORGETTI, Sofia - NATALELLO, Antonino - DOGLIA, Silvia Maria - STEFANI, Massimo - BUCCIANTINI, Monica. A FTIR microspectroscopy study of the structural and biochemical perturbations induced by natively folded and aggregated transthyretin in HL-1 cardiomyocytes. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
3. [1.1] BADER, Miriam - MUELLER, Katharina - FOERSTENDORF, Harald - SCHMIDT, Matthias - SIMMONS, Karen - SWANSON, Juliet S. - REED, Donald T. - STUMPF, Thorsten - CHERKOUK, Andrea. Comparative analysis of uranium bioassociation with halophilic bacteria and archaea. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
4. [1.1] BISWAS, Atanu - KIM, Sanghoon - GOMEZ, Analia - BUTTRUM, Megan - BODDU, Veera - CHENG, Huai N. Microwave-Assisted Synthesis of Sucrose Polyurethanes and Their Semi-interpenetrating Polymer Networks with Polycaprolactone and Soybean Oil. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2018, vol. 57, no. 9, pp. 3227-3234., Registrované v: WOS
5. [1.1] CLARK, Christopher J. - COONEY, Janine M. - HOPKINS, Wendy A. - CURRIE, Alastair. Global Mid-Infrared Prediction Models Facilitate Simultaneous Analysis of Juice Composition from Berries of Actinidia, Ribes, Rubus and Vaccinium Species. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2018, vol. 11, no. 11, pp. 3147-3160., Registrované v: WOS
6. [1.1] COIMBRA, Manuel A. - ROCHA, Silvia M. - MARTINS, Catia - BARROS, Antonio S. Methodologies for Improved Quality Control Assessment of Food Products. In *ADVANCES IN FOOD DIAGNOSTICS, 2ND EDITION*, 2017, vol., no., pp. 13-61., Registrované v: WOS
7. [1.1] DANKAR, Iman - HADDARAH, Amira - OMAR, Fawaz E. L. - PUJOLA, Montserrat - SEPULCRE, Francesc. Characterization of food additive-potato starch complexes by FTIR and X-ray diffraction. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 260, no., pp. 7-12., Registrované v: WOS
8. [1.1] GIERLINGER, Notburga. New insights into plant cell walls by vibrational microspectroscopy. In *APPLIED SPECTROSCOPY REVIEWS*. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS
9. [1.1] GLADYSZ-PLASKA, A. - LIPKE, A. - STERNIK, D. - TRYTEK, M. - MAJDAN, M. Spectroscopic, thermal and equilibrium characterization of U(VI) ions sorption on inulin in the presence of phosphates. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2018, vol. 1166, no., pp. 169-182., Registrované v: WOS
10. [1.1] GONZALEZ FA, Alejandro - LOPEZ-CORRAL, Ignacio - FACCIO, Ricardo - JUAN, Alfredo - SUSANA DI NEZIO, Maria. Surface enhancement Raman spectroscopy and density functional theory study of silver nanoparticles synthesized with d-glucose. In *JOURNAL OF RAMAN SPECTROSCOPY*. ISSN 0377-0486, 2018, vol. 49, no. 11, pp. 1756-1764., Registrované v: WOS
11. [1.1] GRUNERT, Tom - JOVANOVIĆ, Dijana - SIRISARN, Wanchat - JOHLER, Sophia - WEIDENMAIER, Christopher - EHLING-SCHULZ, Monika - XIA, Guoqing. Analysis of *Staphylococcus aureus* wall teichoic acid glycoepitopes by Fourier Transform Infrared Spectroscopy provides novel insights into the staphylococcal glycode. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
12. [1.1] HAR, Chen Loon - FU, Nan - CHAN, Eng Seng - TEY, Beng Ti - CHEN, Xiao Dong. In situ crystallization kinetics and behavior of mannitol during droplet drying. In *CHEMICAL*



ENGINEERING JOURNAL. ISSN 1385-8947, 2018, vol. 354, no., pp. 314-326., Registrované v: WOS

13. [1.1] KONG, Lingyan - STAPLETON, Joshua J. - ZIEGLER, Gregory R. Characterization of macromolecular orientation in kappa-carrageenan fibers using polarized Fourier-transform infrared spectroscopy. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2018, vol. 94, no., pp. 61-65., Registrované v: WOS

14. [1.1] MAKSHAKOVA, Olga N. - FAIZULLIN, Dzhigangir A. - MIKSHINA, Polina V. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Spatial structures of rhamnogalacturonan I in gel and colloidal solution identified by 1D and 2D-FTIR spectroscopy. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 192, no., pp. 231-239., Registrované v: WOS

15. [1.1] NAGY, Elena Mihaela - TODICA, Mihai - CIOICA, Nicolae - COTA, Constantin - NICULAESCU, Carmen. IR Investigation of Some Degraded Starch Based Biopolymers. In MATERIALS TODAY-PROCEEDINGS. ISSN 2214-7853, 2018, vol. 5, no. 8, pp. 15902-15908., Registrované v: WOS

16. [1.1] POURFARZAD, Amir - AHMADIAN, Zahra - HABIBI-NAJAFI, Mohammad B. Interactions between polyols and wheat biopolymers in a bread model system fortified with inulin: A Fourier transform infrared study. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 12, pp., Registrované v: WOS

17. [1.1] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-Soluble Polysaccharides of Alfalfa (*Medicago sativa* (Fabaceae)) of Flora of Krasnoyarsk Krai. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 854-859., Registrované v: WOS

18. [1.1] RUGGIERO, Ludovica - SODO, Armida - BRUNI, Fabio - RICCI, Maria Antonietta. Hydration of monosaccharides studied by Raman scattering. In JOURNAL OF RAMAN SPECTROSCOPY. ISSN 0377-0486, 2018, vol. 49, no. 6, pp. 1066-1075., Registrované v: WOS

19. [1.1] SANCHEZ, Patricia M. - PAULI, Elis D. - SCHEEL, Guilherme L. - RAKOCEVIC, Miroslava - BRUNS, Roy E. - SCARMINIO, Ieda S. Irrigation and Light Access Effects on *Coffea arabica* L. Leaves by FTIR-Chemometric Analysis. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2018, vol. 29, no. 1, pp. 168-176., Registrované v: WOS

20. [1.1] SE, Kuan Wei - GHOSHAL, Sib Krishna - WAHAB, Roswanira Abdul - IBRAHIM, Raja Kamarulzaman Raja - LANI, Mohd Nizam. A simple approach for rapid detection and quantification of adulterants in stingless bees (*Heterotrigona itama*) honey. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 105, no., pp. 453-460., Registrované v: WOS

21. [1.1] SINGH, Ram Sarup - KAUR, Navpreet - SHARMA, Radhika - RANA, Vikas. Carbamoyl ethyl pullulan: QbD based synthesis, characterization and corneal wound healing potential. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2245-2255., Registrované v: WOS

22. [1.1] SUKRI, Siti Sabrina Mohd - SAKINAH, A. M. Mimi. Production of High Commercial Value Xylooligosaccharides from Meranti Wood Sawdust Using Immobilised Xylanase. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2018, vol. 184, no. 1, pp. 278-290., Registrované v: WOS

23. [1.1] THIRUMAL, V. - CHISTOSERDOV, A. - BAJPAI, R. - BADER, J. - POPOVIC, M. K. - SUBRAMANIAM, R. Effect of Developed Low Cost Minimal Medium on Lipid and Exopolysaccharide Production by *Lipomyces starkeyi* Under Repeated Fed-batch and Continuous Cultivation. In CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY. ISSN 0352-9568, 2019, vol. 32, no. 4, pp. 473-481., Registrované v: WOS

24. [1.2] KOPPLIN, Georg - ROKSTAD, Anne Mari - MÉLIDA, Hugo - BULONE, Vincent - SKJÅK-BRÆK, Gudmund - AACHMANN, Finn Lillelund. Structural Characterization of Fucoidan from *Laminaria hyperborea*: Assessment of Coagulation and Inflammatory Properties and Their Structure-Function Relationship. In ACS Applied Bio Materials, 2018-12-17, 1, 6, pp. 1880-1892., Registrované v: SCOPUS

25. [3.2] Singh, R. S.; Kaur, Navpreet. Biochemical and molecular characterization of a new pullulan producer *Rhodospiridium paludigenum* PUPY-06. In: Journal of Applied Biology & Biotechnology, 2018, volume: 6, issue: 1, pages: 28-37, ISSN 2455-7005., Registrované v: BIOSIS Citation Index

ADCA307

KAČURÁKOVÁ, Marta - CAPEK, Peter - SASINKOVÁ, Vlasta - WELLNER, N. - EBRINGEROVÁ, Anna. FT-IR study of plant cell wall model compounds: pectic polysaccharides and hemicelluloses. In Carbohydrate Polymers, 2000, vol. 43, p. 195-203. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] AGUSTIN-SALAZAR, Sarai - CERRUTI, Pierfrancesco - ANGEL MEDINA-JUAREZ, Luis - SCARINZI, Gennaro - MALINCONICO, Mario - SOTO-VALDEZ, Herlinda - GAMEZ-MEZA, Nohemi. Lignin and holocellulose from pecan nutshell as reinforcing fillers in poly (lactic acid)

- biocomposites. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no., pp. 727-736., Registrované v: WOS
2. [1.1] ANDRES-ROBIN, Amelie - REYMOND, Mathieu C. - DUPIRE, Antoine - BATTU, Virginie - DUBRULLE, Nelly - MOUILLE, Gregory - LEFEBVRE, Valerie - PELLOUX, Jerome - BOUDAUD, Arezki - TRAAS, Jan - SCUTT, Charles P. - MONEGER, Francoise. Evidence for the Regulation of Gynoecium Morphogenesis by *ETTIN* via Cell Wall Dynamics. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 178, no. 3, pp. 1222-1232., Registrované v: WOS
3. [1.1] ASHRAF, Muhammad Umer - HUSSAIN, Muhammad Ajaz - BASHIR, Sajid - HASEEB, Muhammad Tahir - HUSSAIN, Zakir. Quince seed hydrogel (glucuronoxylan): Evaluation of stimuli responsive sustained release oral drug delivery system and biomedical properties. In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, 2018, vol. 45, no., pp. 455-465., Registrované v: WOS
4. [1.1] BELLO, Bashirat - MUSTAFA, Shuhaimi - TAN, Joo Shun - IBRAHIM, Tengku Azmi Tengku - TAM, Yew Joon - ARIFF, Arbakariya B. - MANAP, Mohd Yazid - ABBASILIASI, Sahar. Evaluation of the effect of soluble polysaccharides of palm kernel cake as a potential prebiotic on the growth of probiotics. In *BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no. 8, pp., Registrované v: WOS
5. [1.1] CACICEDO, Maximiliano L. - ISLAN, German A. - FLORENCIA DRACHEMBERG, M. - ALVAREZ, Vera A. - BARTEL, Laura C. - BOLZAN, Alejandro D. - CASTRO, Guillermo R. Hybrid bacterial cellulose-pectin films for delivery of bioactive molecules. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2018, vol. 42, no. 9, pp. 7457-7467., Registrované v: WOS
6. [1.1] CAI, Qian - FAN, Zhaosheng - CHEN, Jianbo - GUO, Wenji - MA, Fang - SUN, Suqin - HU, Liming - ZHOU, Qun. Dissolving process of bamboo powder analyzed by FT-IR spectroscopy. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2018, vol. 1171, no., pp. 639-643., Registrované v: WOS
7. [1.1] CECILIA PORFIRI, Maria - RICARDO WAGNER, Jorge. Extraction and characterization of soy hull polysaccharide-protein fractions. Analysis of aggregation and surface rheology. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 79, no., pp. 40-47., Registrované v: WOS
8. [1.1] CHAI, Zhi - HUANG, Wuyang - ZHAO, Xue - WU, Han - ZENG, Xiaoxiong - LI, Chunyang. Preparation, characterization, antioxidant activity and protective effect against cellular oxidative stress of polysaccharide from *Cynanchum auriculatum* Royle ex Wight. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 1068-1076., Registrované v: WOS
9. [1.1] CHEN, Shuang - SU, Tingting - WANG, Zhanyong. Structural characterization, antioxidant activity, and immunological activity in vitro of polysaccharides from fruiting bodies of *Suillus granulatus*. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2018, vol. 42, no. 3, pp., Registrované v: WOS
10. [1.1] CORREA-FERREIRA, Marilia Locatelli - FERREIRA, Daniele Maria - DALLAZEN, Jorge Luiz - SILVA, Artur M. S. - DE PAULA WERNER, Maria Fernanda - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Gastroprotective effects and structural characterization of a pectic fraction isolated from *Artemisia campestris* subsp. *maritima*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2395-2403., Registrované v: WOS
11. [1.1] CRAIG, Ana Paula - BOTELHO, Bruno G. - OLIVEIRA, Leandro S. - FRANCA, Adriana S. Mid infrared spectroscopy and chemometrics as tools for the classification of roasted coffees by cup quality. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp. 1052-1061., Registrované v: WOS
12. [1.1] DA CRUZ, Mabel Ribeiro - SARAIVA MORAIS, Joao Paulo - MUNIZ, Celli Rodrigues - ROSA, Morsyleide de Freitas - MOREIRA DE SOUZA FILHO, Men de Sa - CORDEIRO DE AZEREDO, Henriette Monteiro. Mesquite seed gum and Nile tilapia fish gelatin composite films with cellulose nanocrystals. In *PESQUISA AGROPECUARIA BRASILEIRA*. ISSN 0100-204X, 2018, vol. 53, no. 4, pp. 495-503., Registrované v: WOS
13. [1.1] DAVACHI, Seyed Mohammad - SHEKARABI, Azadeh Sadat. Preparation and characterization of antibacterial, eco-friendly edible nanocomposite films containing *Salvia macrophylla* and nanoclay. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 113, no., pp. 66-72., Registrované v: WOS
14. [1.1] DEMIREL, Fadime - GERMEC, Mustafa - COBAN, Hasan Bugra - TURHAN, Irfan. Optimization of dilute acid pretreatment of barley husk and oat husk and determination of their chemical composition. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 11, pp. 6377-6393., Registrované v: WOS
15. [1.1] EMERSON ZAVALETA-GUTIERREZ, Nilthon - ROLANDO POLO-BRICENO, Elmer - SICHE, Raul - MANUEL ANGELATS-SILVA, Luis. Inhibition of corrosion of ASTM A192 steel in hydrochloric acid solution by the mucilage of *Linum usitatissimum*. In *MATERIA-RIO DE*



- JANEIRO. ISSN 1517-7076, 2018, vol. 23, no. 2, pp., Registrované v: WOS
16. [1.1] EYIGOR, Aysen - BAHADORI, Fatemeh - YENIGUN, Vildan Betul - EROGLU, Mehmet Sayip. Beta-Glucan based temperature responsive hydrogels for 5-ASA delivery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 201, no., pp. 454-463., Registrované v: WOS
17. [1.1] FATHI, Morteza - EMAM-DJOMEH, Zahra - SADEGHI-VARKANI, Atina. Extraction, characterization and rheological study of the purified polysaccharide from *Lallemantia ibrice* seeds. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 1265-1274., Registrované v: WOS
18. [1.1] FELGITSCH, Laura - BALOH, Philipp - BURKART, Julia - MAYR, Maximilian - MOMKEN, Mohammad E. - SEIFRIED, Teresa M. - WINKLER, Philipp - SCHMALE, David G. - GROTHE, Hinrich. Birch leaves and branches as a source of ice-nucleating macromolecules. In ATMOSPHERIC CHEMISTRY AND PHYSICS. ISSN 1680-7316, 2018, vol. 18, no. 21, pp. 16063-16079., Registrované v: WOS
19. [1.1] FERREIRA-LAZARTE, Alvaro - KACHRIMANIDOU, Vasiliki - VILLAMIEL, Mar - RASTALL, Robert A. - JAVIER MORENO, F. In vitro fermentation properties of pectins and enzymatic-modified pectins obtained from different renewable bioresources. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 482-491., Registrované v: WOS
20. [1.1] GAIGNARD, Clement - MACAO, Vanessa - GARDARIN, Christine - RIHOUEY, Christophe - PICTON, Luc - MICHAUD, Philippe - LAROCHE, Celine. The red microalga *Flintia sanguinaria* as a new exopolysaccharide producer. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2018, vol. 30, no. 5, pp. 2803-2814., Registrované v: WOS
21. [1.1] GALLARDO-RIVERA, Raquel - DE LOS ANGELES AGUILAR-SANTAMARIA, Maria - SILVA-BERMUDEZ, Phaedra - GARCIA-LOPEZ, Julieta - TECANTE, Alberto - VELASQUILLO, Cristina - ROMAN-GUERRERO, Angelica - PEREZ-ALONSO, Cesar - VAZQUEZ-TORRES, Humberto - SHIRAI, Keiko. Polyelectrolyte complex of Aloe vera, chitosan, and alginate produced fibroblast and lymphocyte viabilities and migration. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 192, no., pp. 84-94., Registrované v: WOS
22. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Cross-linking of sodium carbonate-soluble pectins from apple by zinc ions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 196, no., pp. 1-7., Registrované v: WOS
23. [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-Related Gelling of Pectins and Linking with Other Natural Compounds: A Review. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS
24. [1.1] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou-min. Effect of Delignification of Hemicellulose Extraction from Switchgrass, Poplar, and Pine and Its Effect on Enzymatic Convertibility of Cellulose-rich Residues. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 3, pp. 4946-4963., Registrované v: WOS
25. [1.1] GIERLINGER, Notburga. New insights into plant cell walls by vibrational microspectroscopy. In APPLIED SPECTROSCOPY REVIEWS. ISSN 0570-4928, 2018, vol. 53, no. 7, pp. 517-551., Registrované v: WOS
26. [1.1] GIL-RAMIREZ, Alicia - MARTIN SALAS-VEIZAGA, Daniel - GREY, Carl - KARLSSON, Eva Nordberg - RODRIGUEZ-MEIZOSO, Irene - LINARES-PASTEN, Javier A. Integrated process for sequential extraction of saponins, xylan and cellulose from quinoa stalks (*Chenopodium quinoa* Willd.). In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 121, no., pp. 54-65., Registrované v: WOS
27. [1.1] GONZALEZ-CABRERA, M. - DOMINGUEZ-VIDAL, A. - AYORA-CANADA, M. J. Hyperspectral FTIR imaging of olive fruit for understanding ripening processes. In POSTHARVEST BIOLOGY AND TECHNOLOGY. ISSN 0925-5214, 2018, vol. 145, no., pp. 74-82., Registrované v: WOS
28. [1.1] GRIP, Jostein - ENGSTAD, Rolf Einar - SKJAEVELAND, Ingrid - SKALKO-BASNET, Natasa - ISAKSSON, Johan - BASNET, Purusotam - HOLSAETER, Ann Mari. Beta-glucan-loaded nanofiber dressing improves wound healing in diabetic mice. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2018, vol. 121, no., pp. 269-280., Registrované v: WOS
29. [1.1] GRUNERT, Tom - JOVANOVIĆ, Dijana - SIRISARN, Wanchat - JOHLER, Sophia - WEIDENMAIER, Christopher - EHLING-SCHULZ, Monika - XIA, Guoqing. Analysis of *Staphylococcus aureus* wall teichoic acid glycoepitopes by Fourier Transform Infrared Spectroscopy provides novel insights into the staphylococcal glycode. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
30. [1.1] GUO, Xiaoming - WANG, Zhiming - PI, Fang - PAN, Runquan - ZHAO, Zhengang - YU, Shujuan. Sequential extraction and physicochemical characterization of polysaccharides from chicory (*Cichorium intybus*) root pulp. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol.

- 77, no., pp. 277-285., Registrované v: WOS
31. [1.1] HAO, Changchun - QU, Hongjin - CHEN, Shi - HAN, Wenjing - SUN, Runguang. Ultrasound-assisted Extraction of Polysaccharide from Radix Bupleuri using Response Surface Methodology and Antioxidant Research of the Polysaccharide. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN 1934-578X, 2018, vol. 13, no. 4, pp. 457-460., Registrované v: WOS
32. [1.1] HARRISON, D. - RIVARD, B. - SANCHEZ-AZOFEIFA, A. Classification of tree species based on longwave hyperspectral data from leaves, a case study for a tropical dry forest. In *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*. ISSN 0303-2434, 2018, vol. 66, no., pp. 93-105., Registrované v: WOS
33. [1.1] HE, Xirui - FANG, Jiacheng - RUAN, Yinlan - WANG, Xiaoxiao - SUN, Yin - WU, Ni - ZHAO, Zefeng - CHANG, Yu - NING, Ning - GUO, Hao - HUANG, Linhong. Structures, bioactivities and future prospective of polysaccharides from *Morus alba* (white mulberry): A review. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2018, vol. 245, no., pp. 899-910., Registrované v: WOS
34. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana. ULTRASOUND EXTRACTION, PURIFICATION, AND PHYSICOCHEMICAL PROPERTIES OF ARABINOGLACTAN FROM LARIX DECIDUAS SAWDUST. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, vol., no., pp. 152-156., Registrované v: WOS
35. [1.1] HU, Huigang - ZHAO, Qiaoli - PANG, Zhencai - XIE, Jianghui - LIN, Lijing - YAO, Quansheng. Optimization extraction, characterization and anticancer activities of polysaccharides from mango pomace. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 1314-1325., Registrované v: WOS
36. [1.1] IZQUIERDO, Lucia - MARTIN, Ignacio - ALBORNOS, Lucia - HERNANDEZ-NISTAL, Josefina - HUESO, Pablo - DOPICO, Berta - LABRADOR, Emilia. Overexpression of Cicer arietinum beta III-Gal but not beta IV-Gal in arabidopsis causes a reduction of cell wall beta-(1,4)-galactan compensated by an increase in homogalacturonan. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2018, vol. 231, no., pp. 135-146., Registrované v: WOS
37. [1.1] JIANG, Keming - HUANG, Dong - ZHANG, Dawei - WANG, Xinluan - CAO, Huijuan - ZHANG, Qian - YAN, Chunyan. Investigation of inulins from the roots of *Morinda officinalis* for potential therapeutic application as anti-osteoporosis agent. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 170-179., Registrované v: WOS
38. [1.1] KANG CAICAI - HAO LIMIN - ZHANG LIMING - ZHENG ZHIQIANG - YANG YONGWU. Isolation, purification and antioxidant activity of polysaccharides from the leaves of maca (*Lepidium Meyenii*). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2611-2619., Registrované v: WOS
39. [1.1] KESHANI-DOKHT, Shaghayegh - EMAM-DJOMEH, Zahra - YARMAND, Mohammad-Saeid - FATHI, Morteza. Extraction, chemical composition, rheological behavior, antioxidant activity and functional properties of *Cordia myxa* mucilage. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 485-493., Registrované v: WOS
40. [1.1] KIM, Hyo Seon - KIM, Sung-Koo - JEONG, Gwi-Taek. Efficient conversion of glucosamine to levulinic acid in a sulfamic acid-catalyzed hydrothermal reaction. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 6, pp. 3198-3205., Registrované v: WOS
41. [1.1] KURT, Abdullah - ATALAR, Ilyas. Effects of quince seed on the rheological, structural and sensory characteristics of ice cream. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 82, no., pp. 186-195., Registrované v: WOS
42. [1.1] KUTZLI, Ines - GIBIS, Monika - BAIER, Stefan K. - WEISS, Jochen. Fabrication and characterization of food-grade fibers from mixtures of maltodextrin and whey protein isolate using needleless electrospinning. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2018, vol. 135, no. 22, pp., Registrované v: WOS
43. [1.1] KUZNETSOV, B. N. - SUDAKOVA, I. G. - GARYNTSEVA, N. - LEVDANSKY, V. A. - IVANCHENKO, N. M. - PESTUNOV, A. - DJAKOVITCH, L. - PINEL, C. Green biorefinery of larch wood biomass to obtain the bioactive compounds, functional polymers and nanoporous materials. In *WOOD SCIENCE AND TECHNOLOGY*. ISSN 0043-7719, 2018, vol. 52, no. 5, pp. 1377-1394., Registrované v: WOS
44. [1.1] LA CAVA, Enzo L. - GERBINO, Esteban - SGROPPO, Sonia C. - GOMEZ-ZAVAGLIA, Andrea. Characterization of Pectins Extracted from Different Varieties of Pink/Red and White Grapefruits [*Citrus Paradisi* (Macf.)] by Thermal Treatment and Thermosonication. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2018, vol. 83, no. 6, pp. 1613-1621., Registrované v: WOS
45. [1.1] LAI, Yen-Liang - LIN, Yu-Ying - SADHASIVAM, Subramaniam - KUAN, Che-Yung -

- CHI, Chih-ying - DONG, Guo-Chung - LIN, Feng-Huei. Efficacy of *Bletilla striata* polysaccharide on hydrogen peroxide-induced apoptosis of osteoarthritic chondrocytes. In *JOURNAL OF POLYMER RESEARCH*. ISSN 1022-9760, 2018, vol. 25, no. 2, pp., Registrované v: WOS
46. [1.1] LI, Yongyu - CHEN, Jianyan - CAO, Lili - LI, Liang - WANG, Fang - LIAO, Zhengping - CHEN, Jianjun - WU, Shaohua - ZHANG, Liaoyuan. Characterization of a novel polysaccharide isolated from *Phyllanthus emblica* L. and analysis of its antioxidant activities. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE*. ISSN 0022-1155, 2018, vol. 55, no. 7, pp. 2758-2764., Registrované v: WOS
47. [1.1] LI, Yun - ZHANG, Jin-Yu - WANG, Yuan-Zhong. FT-MIR and NIR spectral data fusion: a synergetic strategy for the geographical traceability of *Panax notoginseng*. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 1, pp. 91-103., Registrované v: WOS
48. [1.1] LIU, Min - LI, Shangshang - WANG, Xiuxiu - ZHU, Yongfa - ZHANG, Jianjun - LIU, Hui - JIA, Le. Characterization, anti-oxidation and anti-inflammation of polysaccharides by *Hypsizygus marmoreus* against LPS-induced toxicity on lung. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 111, no., pp. 121-128., Registrované v: WOS
49. [1.1] LIU, Yang - WANG, Lan - CHEN, Hong-Zhang. Two-steps gas double-dynamic solid-state fermentation enhances growth and spore production of *Conithyrium minitans*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 262, no., pp. 235-241., Registrované v: WOS
50. [1.1] LUO, Yiping - LI, Zheng - ZUO, Yini - SU, Zhishan - HU, Changwei. Effects of gamma-Valerolactone/H<sub>2</sub>O Solvent on the Degradation of *pubescens* for Its Fulllest Utilization. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 24, pp. 6094-6103., Registrované v: WOS
51. [1.1] MA, Fang - HUANG, An-min. Rapid identification and quantification three chicken-wing woods of *Millettia leucantha*, *Millettia laurentii* and *Cassia siamea* by FT-IR and 2DCOS-IR. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2018, vol. 1166, no., pp. 164-168., Registrované v: WOS
52. [1.1] MABEL HERNANDEZ-ALTAMIRANO, J. - LARGO-GOSENS, Asier - MARTINEZ-RUBIO, Romina - PEREDA, Diego - ALVAREZ, Jesus M. - ACEBES, Jose L. - ENCINA, Antonio - GARCIA-ANGULO, Penelope. Effect of ancymidol on cell wall metabolism in growing maize cells. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 4, pp. 987-999., Registrované v: WOS
53. [1.1] MADEIRA, Juliana C. - DA SILVA, Gabriel V. L. - BATISTA, Jose Josenildo - SARAIVA, Gilberto Dantas - SANTOS, Gustavo R. C. - ASSREUY, Ana Maria S. - MOURAO, Paulo A. S. - PEREIRA, Maria G. An arabinogalactan-glycoconjugate from *Genipa americana* leaves present anticoagulant, antiplatelet and antithrombotic effects. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 202, no., pp. 554-562., Registrované v: WOS
54. [1.1] MAKSHAKOVA, Olga N. - FAIZULLIN, Dzhigangir A. - MIKSHINA, Polina V. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Spatial structures of rhamnogalacturonan I in gel and colloidal solution identified by 1D and 2D-FTIR spectroscopy. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 192, no., pp. 231-239., Registrované v: WOS
55. [1.1] MAZLAN, Othman - AIZAT, Wan Mohd - BAHARUM, Syarul Nataqain - AZIZAN, Kamalrul Azlan - NOOR, Normah Mohd. Metabolomics analysis of developing *Garcinia mangostana* eseed reveals modulated levels of sugars, organic acids and phenylpropanoid compounds. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2018, vol. 233, no., pp. 323-330., Registrované v: WOS
56. [1.1] MILENKOVIC, Ivana - RADOTIC, Ksenija - MATOVIC, Branko - PREKAJSKI, Marija - ZIVKOVIC, Ljiljana - JAKOVLJEVIC, Dragica - GOJGIC-CVIJOVIC, Gordana - BESKOSKI, Vladimir. Improving stability of cerium oxide nanoparticles by microbial polysaccharides coating. In *JOURNAL OF THE SERBIAN CHEMICAL SOCIETY*. ISSN 0352-5139, 2018, vol. 83, no. 6, pp. 745-757., Registrované v: WOS
57. [1.1] MONEO-SANCHEZ, M. - IZQUIERDO, L. - MARTIN, I. - HERNANDEZ-NISTAL, J. - ALBORNOS, L. - DOPICO, B. - LABRADOR, E. Knockout mutants of *Arabidopsis thaliana* beta-galactosidase. Modifications in the cell wall saccharides and enzymatic activities. In *BIOLOGIA PLANTARUM*. ISSN 0006-3134, 2018, vol. 62, no. 1, pp. 80-88., Registrované v: WOS
58. [1.1] MORALES-MARTINEZ, Yareli - DEL ROCIO LOPEZ-CUELLAR, Ma - CHAVARRIA-HERNANDEZ, Norberto - INES RODRIGUEZ-HERNANDEZ, Adriana. Rheological behaviour of acetylated pectins from cactus pear fruits (*Opuntia albicarpa* and *O. matudae*). In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 85, no., pp. 110-119., Registrované v: WOS
59. [1.1] NOBRE, Karine A. - SOARES, Carlos E. A. - VIEIRA, Icaro G. P. - DE ALMEIDA, Raimondo R. - MOREIRA, Renato de A. - DE ARAUJO, Tamara G. - RIBEIRO, Maria E. N. P. - RICARDO, Nagila M. P. S. *Adenantha pavonina* GALACTOMANNAN FOR CONTROLLED



- DELIVERY OF RUTIN A PRELIMINARY STUDY. In *QUIMICA NOVA*. ISSN 0100-4042, 2018, vol. 41, no. 6, pp. 607-612., Registrované v: WOS
60. [1.1] OGNJANOV, Manol - GEORGIEV, Yordan - PETKOVA, Nadezhda - IVANOV, Ivan - VASILEVA, Ivelina - KRATCHANOVA, Maria. Isolation and Characterization of Pectic Polysaccharide Fraction from *In Vitro* Suspension Culture of *Fumaria officinalis* L. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS
61. [1.1] OLIVEIRA, Fernanda de Carvalho - SRINIVAS, Keerthi - HELMS, Gregory L. - ISERN, Nancy G. - CORT, John R. - GONCALVES, Adilson Roberto - AHRING, Birgitte Kiaer. Characterization of coffee (*Coffea arabica*) husk lignin and degradation products obtained after oxygen and alkali addition. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 257, no., pp. 172-180., Registrované v: WOS
62. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS
63. [1.1] QIN, Zhao - MA, Yu-Xiang - LIU, Hua-Min - QIN, Guang-Yong - WANG, Xue-De. Structural elucidation of lignin-carbohydrate complexes (LCCs) from Chinese quince (*Chaenomeles sinensis*) fruit. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 1240-1249., Registrované v: WOS
64. [1.1] RANA, Rumana - HERZ, Katharina - BRUELHEIDE, Helge - DIETZ, Sophie - HAIDER, Sylvia - JANDT, Ute - PENA, Rodica. Leaf Attenuated Total Reflection Fourier Transform Infrared (ATR-FTIR) biochemical profile of grassland plant species related to land-use intensity. In *ECOLOGICAL INDICATORS*. ISSN 1470-160X, 2018, vol. 84, no., pp. 803-810., Registrované v: WOS
65. [1.1] RANJBARVAN, Parviz - MAHMOUDIFARD, Matin - KEHTARI, Mousa - BABAIE, Ali - HAMED, Shokoh - MIRZAEI, Samaneh - SOLEIMANI, Masoud - HOSSEINZADEH, Simzar. Natural Compounds for Skin Tissue Engineering by Electrospinning of Nylon-Beta Vulgaris. In *ASAIO JOURNAL*. ISSN 1058-2916, 2018, vol. 64, no. 2, pp. 261-269., Registrované v: WOS
66. [1.1] RIEDER, Anne - BALLANCE, Simon - BOCKER, Ulrike - KNUTSEN, Svein. Quantification of 1,3-beta-D-glucan from yeast added as a functional ingredient to bread. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 34-42., Registrované v: WOS
67. [1.1] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-Soluble Polysaccharides of Alfalfa (*Medicago sativa* (Fabaceae)) of Flora of Krasnoyarsk Krai. In *RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY*. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 854-859., Registrované v: WOS
68. [1.1] SALARBASHI, Davoud - TAFAGHODI, Mohsen - BAZZAZ, Bibi Sedigheh Fazly - JAFARI, Behrouz. Characterization of soluble soybean (SSPS) polysaccharide and development of eco-friendly SSPS/TiO<sub>2</sub> nanoparticle bionanocomposites. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 112, no., pp. 852-861., Registrované v: WOS
69. [1.1] SALARBASHI, Davoud - TAFAGHODI, Mohsen - BAZZAZ, Bibi Sedigheh Fazly. Soluble soybean polysaccharide/TiO<sub>2</sub> bionanocomposite film for food application. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 186, no., pp. 384-393., Registrované v: WOS
70. [1.1] SALEHI, Mohammad - TABARSA, Mehdi - AMRAIE, Milad - ANVARI, Mohammad - REZAEI, Masoud - SMITH, Brennan M. Characterization of rheological and structural properties of a gum from Balangu seeds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 294-300., Registrované v: WOS
71. [1.1] SANTEK, M. Ivancic - ZVONAR, I. - BELUHAN, S. - SANTEK, B. Production of Bioethanol from Corn Cobs. In *KEMIJA U INDUSTRIJI-JOURNAL OF CHEMISTS AND CHEMICAL ENGINEERS*. ISSN 0022-9830, 2018, vol. 67, no. 7-8, pp. 297-308., Registrované v: WOS
72. [1.1] SCHOENAERS, Sebastien - BALCEROWICZ, Daria - BREEN, Gordon - HILL, Kristine - ZDANIO, Malgorzata - MOUILLE, Gregory - HOLMAN, Tara J. - OH, Jaesung - WILSON, Michael H. - NIKONOROVA, Natalia - VU, Lam Dai - DE SMET, Ive - SWARUP, Ranjan - DE VOS, Winnok H. - PINTELON, Isabel - ADRIAENSEN, Dirk - GRIERSON, Claire - BENNETT, Malcolm J. - VISSENBERG, Kris. The Auxin-Regulated CrRLK1L Kinase ERULUS Controls Cell Wall Composition during Root Hair Tip Growth. In *CURRENT BIOLOGY*. ISSN 0960-9822, 2018, vol. 28, no. 5, pp. 722-+, Registrované v: WOS
73. [1.1] SELVAN, D. Arumai - MAHENDIRAN, D. - KUMAR, R. Senthil - RAHIMAN, A. Kalilur. Garlic, green tea and turmeric extracts-mediated green synthesis of silver nanoparticles:

- Phytochemical, antioxidant and in vitro cytotoxicity studies. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY. ISSN 1011-1344, 2018, vol. 180, no., pp. 243-252., Registrované v: WOS*
74. [1.1] SHARMA, Sweta - UTTAM, K. N. Early Diagnosis of Mercury Stress of Wheat Seedlings Using Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. In ANALYTICAL LETTERS. ISSN 0003-2719, 2018, vol. 51, no. 10, pp. 1544-1563., Registrované v: WOS
75. [1.1] SHARMA, Sweta - UTTAM, Rahul - SINGH, Praveen - UTTAM, K. N. Detection of Vibrational Spectroscopic Biomarkers of the Effect of Gold Nanoparticles on Wheat Seedlings Using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy. In ANALYTICAL LETTERS. ISSN 0003-2719, 2018, vol. 51, no. 14, pp. 2271-2294., Registrované v: WOS
76. [1.1] SHIN, Myoung-Sook - PARK, Su Beom - SHIN, Kwang-Soon. Molecular mechanisms of immunomodulatory activity by polysaccharide isolated from the peels of Citrus unshiu. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 112, no., pp. 576-583., Registrované v: WOS
77. [1.1] SIMS, Ian M. - SMITH, Alan M. - MORRIS, Gordon A. - GHORI, Muhammad U. - CARNACHAN, Susan M. Structural and rheological studies of a polysaccharide mucilage from lacebark leaves (*Hoheria populnea* A. Cunn.). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 839-847., Registrované v: WOS
78. [1.1] SKENDI, Adriana - MOUSELEMIDOU, Panagiota - PAPAGEORGIOU, Maria - PAPASTERGIADIS, Efthimios. Effect of acorn meal-water combinations on technological properties and fine structure of gluten-free bread. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 253, no., pp. 119-126., Registrované v: WOS
79. [1.1] SUN, Shaolong - CAO, Xuefei - LI, Huiling - CHEN, Xue - TANG, Jianing - SUN, Shaoni. Preparation of furfural from Eucalyptus by the MIBK/H<sub>2</sub>O pretreatment with biphasic system and enzymatic hydrolysis of the resulting solid fraction. In ENERGY CONVERSION AND MANAGEMENT. ISSN 0196-8904, 2018, vol. 173, no., pp. 539-544., Registrované v: WOS
80. [1.1] TANG, Tingting - DUAN, Xiaoyu - KE, Yu - ZHANG, Lan - SHEN, Yingbin - HU, Bin - LIU, Aiping - CHEN, Hong - LI, Cheng - WU, Wenjuan - SHEN, Li - LIU, Yuntao. Antidiabetic activities of polysaccharides from *Anoectochilus roxburghii* and *Anoectochilus formosanus* in STZ-induced diabetic mice. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 112, no., pp. 882-888., Registrované v: WOS
81. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
82. [1.1] WANG, Kunli - LI, Mo - WEN, Xin - CHEN, Xiaosong - HE, Zhengyu - NI, Yuanying. Optimization of ultrasound-assisted extraction of okra (*Abelmoschus esculentus* (L.) Moench) polysaccharides based on response surface methodology and antioxidant activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 114, no., pp. 1056-1063., Registrované v: WOS
83. [1.1] WANG, Li - LIU, Hua-Min - XIE, Ai-Jun - WANG, Xue-De - ZHU, Chun-Yan - QIN, Guang-Yong. Chinese quince (*Chaenomeles sinensis*) seed gum: Structural characterization. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 75, no., pp. 237-245., Registrované v: WOS
84. [1.1] WANG, Qing - TIAN, Dong - HU, Jinguang - SHEN, Fei - YANG, Gang - ZHANG, Yanzong - DENG, Shihuai - ZHANG, Jing - ZENG, Yongmei - HU, Yaodong. Fates of hemicellulose, lignin and cellulose in concentrated phosphoric acid with hydrogen peroxide (PHP) pretreatment. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 23, pp. 12714-12723., Registrované v: WOS
85. [1.1] WANG, Yacheng - ZHENG, Dongfang - ZHAO, Yong - WANG, Ting - YANG, Yafeng - ASHRAF, Muhammad Aqeel - PENG, Wanxi. Active Components in Branches and Leaves of *Koeleruteria Paniculata*. In CARIBBEAN JOURNAL OF SCIENCE. ISSN 0008-6452, 2018, vol. 51, no. 1, pp. 11-21., Registrované v: WOS
86. [1.1] WANG, Yonggang - XU, Ye - MA, Xueqing - LIU, Xiaofeng - YANG, Mingjun - FAN, Wenguang - REN, Haiwei - EFEHI, Nehikhare - WANG, Xiaoli - ZHU, Xinqiang. Extraction, purification, characterization and antioxidant activities of polysaccharides from *Zizyphus jujuba* cv. Linzexiaozao. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2138-2148., Registrované v: WOS
87. [1.1] WANG, Yun - WEI, Xuelian - WANG, Fuhou - XU, Jingjing - TANG, Xiaozhen - LI, Ningyang. Structural characterization and antioxidant activity of polysaccharide from ginger. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 862-869., Registrované v: WOS



88. [1.1] WANG, Zhijun - XIE, Jianhua - SHEN, Mingyue - NIE, Shaoping - XIE, Mingyong. Sulfated modification of polysaccharides: Synthesis, characterization and bioactivities. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2018, vol. 74, no., pp. 147-157., Registrované v: WOS
89. [1.1] WANG, Zichao - ZHANG, Huiru - SHEN, Yingbin - ZHAO, Xiaoxiao - WANG, Xueqin - WANG, Jiaqi - FAN, Kun - ZHAN, Xiaobei. Characterization of a novel polysaccharide from *Ganoderma lucidum* and its absorption mechanism in Caco-2 cells and mice model. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 320-326., Registrované v: WOS
90. [1.1] WHITE, Kathryn E. - COALE, Frank J. - REEVES, James B. Degradation changes in plant root cell wall structural molecules during extended decomposition of important agricultural crop and forage species. In *ORGANIC GEOCHEMISTRY*. ISSN 0146-6380, 2018, vol. 115, no., pp. 233-245., Registrované v: WOS
91. [1.1] WU, Miao - PANG, Jin-Hui - SONG, Ping-Ping - ZHANG, Xue-Ming - PENG, Jian-Jun. Enhancing the Fractionation Efficiency of Hemicellulose from Agricultural Waste using Expansion Pretreatment. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 8976-8992., Registrované v: WOS
92. [1.1] XU, Ji-Yuan - YUAN, Tong-Qi - XIAO, Lin - SUN, Run-Cang. Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from *Eucalyptus grandis*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 114-119., Registrované v: WOS
93. [1.1] XU, Kaimeng - LIU, Can - KANG, Kunyong - ZHENG, Zhifeng - WANG, Siqun - TANG, Zhenguan - YANG, Wenxiu. Isolation of nanocrystalline cellulose from rice straw and preparation of its biocomposites with chitosan: Physicochemical characterization and evaluation of interfacial compatibility. In *COMPOSITES SCIENCE AND TECHNOLOGY*. ISSN 0266-3538, 2018, vol. 154, no., pp. 8-17., Registrované v: WOS
94. [1.1] XU, Ning - XUE, Feng - DING, Enyong. Nonisothermal crystallization kinetics in isotactic polypropylene/microcrystalline cellulose (II) composites. In *POLYMER COMPOSITES*. ISSN 0272-8397, 2018, vol. 39, no. 4, pp. 1064-1075., Registrované v: WOS
95. [1.1] YAMASSAKI, F. T. - CAMPESTRINI, L. H. - ZAWADZKI-BAGGIO, S. F. - MAURER, J. B. B. Chemical characterization and complement modulating activities of an arabinogalactan-protein-rich fraction from an aqueous extract of avocado leaves. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 513-521., Registrované v: WOS
96. [1.1] YAN, Jing-Kun - DING, Zhi-Chao - GAO, Xianli - WANG, Yao-Yao - YANG, Yan - WU, Di - ZHANG, He-Nan. Comparative study of physicochemical properties and bioactivity of *Hericium erinaceus* polysaccharides at different solvent extractions. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 193, no., pp. 373-382., Registrované v: WOS
97. [1.1] YU, Shunhui - SHENG, Li - ZHANG, Chunyan - DENG, Hongping. Physiological response of *Arundo donax* to cadmium stress by Fourier transform infrared spectroscopy. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2018, vol. 198, no., pp. 88-91., Registrované v: WOS
98. [1.1] ZHANG, Hua - CHEN, Jianle - LI, Junhui - YAN, Lufeng - LI, Shan - YE, Xingqian - LIU, Donghong - DING, Tian - LINHARDT, Robert J. - ORFILA, Caroline - CHEN, Shiguo. Extraction and characterization of RG-I enriched pectic polysaccharides from mandarin citrus peel. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 79, no., pp. 579-586., Registrované v: WOS
99. [1.1] ZHANG, Hui - ZHANG, Ning - XIONG, Zhiqiang - WANG, Guangqiang - XIA, Yongjun - LAI, Phoeny - AI, Lianzhong. Structural characterization and rheological properties of beta-D-glucan from hull-less barley (*Hordeum vulgare* L. var. nudum Hook. f.). In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2018, vol. 155, no., pp. 155-163., Registrované v: WOS
100. [1.1] ZHANG, Lan - HU, Yu - DUAN, Xiaoyu - TANG, Tingting - SHEN, Yingbin - HU, Bin - LIU, Aiping - CHEN, Hong - LI, Cheng - LIU, Yuntao. Characterization and antioxidant activities of polysaccharides from thirteen boletus mushrooms. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 113, no., pp. 1-7., Registrované v: WOS
101. [1.1] ZHANG, Xueqin - LIU, Chuanfu - ZHANG, Aiping - SUN, Runcang. Synergistic effects of graft polymerization and polymer blending on the flexibility of xylan-based films. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 1128-1135., Registrované v: WOS
102. [1.1] ZHANG, Yi - ZHANG, Meng - CHEN, Mingsong - LUO, Jing - LI, Xiaona - GAO, Qiang - LI, Jianzhang. Preparation and characterization of a soy protein-based high-performance adhesive with a hyperbranched cross-linked structure. In *CHEMICAL ENGINEERING*

- JOURNAL. ISSN 1385-8947, 2018, vol. 354, no., pp. 1032-1041., Registrované v: WOS
103. [1.1] ZHAO, Shan - YANG, Fan - LIU, Yang - SUN, Dongsheng - XIU, Zhilong - MA, Xiaojun - ZHANG, Ying - SUN, Guangwei. Study of chemical characteristics, gelation properties and biological application of calcium pectate prepared using apple or citrus pectin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 180-187., Registrované v: WOS
104. [1.1] ZHAO, Yuan - WANG, Shurong - LIN, Haizhou - CHEN, Jingping - XU, Hao. Influence of a Lewis acid and a Bronsted acid on the conversion of microcrystalline cellulose into 5-hydroxymethylfurfural in a single-phase reaction system of water and 1,2-dimethoxyethane. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 13, pp. 7235-7242., Registrované v: WOS
105. [1.1] ZHU, Yuanting - WANG, Chengtao - JIA, Sisi - WANG, Boyang - ZHOU, Kang - CHEN, Shujuan - YANG, Yong - LIU, Shuliang. Purification, characterization and antioxidant activity of the exopolysaccharide from *Weissella cibaria* SJ14 isolated from Sichuan paocai. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 820-828., Registrované v: WOS
106. [1.1] ZMEJKOSKI, Danica - SPASOJEVIC, Dragica - ORLOVSKA, Irina - KOZYROVSKA, Natalia - SOKOVIC, Marina - GLAMOCLJA, Jasmina - DMITROVIC, Svetlana - MATOVIC, Branko - TASIC, Nikola - MAKSIMOVIC, Vuk - SOSNIN, Mikhail - RADOTIC, Ksenija. Bacterial cellulose-lignin composite hydrogel as a promising agent in chronic wound healing. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 494-503., Registrované v: WOS
107. [1.2] FANG, Yu Hao - WEI, Yi - MA, Bing Bing - JI, Wei Rong. Effects of Impregnation Agents on Structure and Catalytic Performance of Bamboo Carbon-Based Solid Acids. In Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities. ISSN 10039015, 2018-06-01, 32, 3, pp. 731-738., Registrované v: SCOPUS
108. [1.2] HEREHER, Faten - ELFALLAL, Amira - TOSON, Elshahat - ABOU-DOBARA, Mohammed. Antitumor effect of a crude protein-bound polysaccharide substance extracted from *Volvariella speciosa*. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2018-10-01, 16, pp. 75-81., Registrované v: SCOPUS
109. [1.2] SLEPTSOV, I. V. - ZHURAVSKAY, A. N. Polysaccharides in tissues *amaranthus retroflexus*, *Agastache rugosa* and *Thlaspi arvense* in the conditions of Central Yakutia. In Khimiya Rastitel'nykh Syr'ya. ISSN 10295151, 2018-01-01, 21, 4, pp. 73-79., Registrované v: SCOPUS
110. [3.2] Singh, R. S.; Kaur, Navpreet. Biochemical and molecular characterization of a new pullulan producer *Rhodospiridium paludigenum* PUPY-06. In: Journal of Applied Biology & Biotechnology, 2018, volume: 6, issue: 1 pages: 28-37, ISSN 2455-7005., Registrované v: BIOSIS Citation Index

ADCA308 KÁKOŠOVÁ, Anna - DIGONNET, Catherine - GOUBET, Florencie - RANOCHA, Philippe - JAUNEAU, Alain - PESQUET, Eduard - BARBIER, Odile - ZHANG, Zhinong - CAPEK, Peter - DUPREE, Paul - LIŠKOVÁ, Desana - GOFFNER, Deborah. Galactoglucomannans increase cell population density and alter the protoxylem/metaxylem tracheary element ratio in xylogenetic cultures of zinnia. In Plant Physiology, 2006, vol. 142, p.696-709. (2005: 6.114 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0032-0889.

Citácie:

- [1.1] GOYAL, Megh R. TREE INJECTION IRRIGATION: PRINCIPLES, PERSPECTIVES AND PROBLEMS. In PERFORMANCE EVALUATION OF MICRO IRRIGATION MANAGEMENT: PRINCIPLES AND PRACTICES, 2017, vol., no., pp. 77-107., Registrované v: WOS
- [1.2] ZHANG, Rui - LI, Lai Geng. Research progress of the plant cell wall signaling. In Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2018-08-20, 54, 8, pp. 1254-1262., Registrované v: SCOPUS

ADCA309 KALIMUTHU, Palraj - TKÁČ, Ján - KAPPLER, Ulrike - DAVIS, Jason J. - BERNHARDT, Paul V. Highly sensitive and stable electrochemical sulfite biosensor incorporating a bacterial sulfite dehydrogenase. In Analytical Chemistry, 2010, vol.82, p. 7374-7379. (2009: 5.214 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0003-2700.

Citácie:

- [1.1] CHATTERJEE, Sobhan - PAITAL, Alok Ranjan. Functionalized Cubic Mesoporous Silica as a Non-Chemodosimetric Fluorescence Probe and Adsorbent for Selective Detection and Removal of Bisulfite Anions along with Toxic Metal Ions. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2018, vol. 28, no. 9, pp., Registrované v: WOS
- [1.1] XU, Jing - ZHENG, Da-Jun - SU, Mi-Mi - CHEN, Yan-Chi - JIAO, Qing-Cai - YANG, Yu-Shun - ZHU, Hai-Liang. A rapid cell-permeating turn-on probe for sensitive and selective detection of sulfite in living cells. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 37, pp. 8318-8324., Registrované v: WOS

- ADCA310 KAMMER, VON DER, H. - HANES, Jozef - KLAUDINY, Jaroslav - SCHEIT K.H. A human amyloid precursor-like protein is highly homologous to a mouse sequence-specific DNA-binding protein. In *DNA and Cell Biology*, 1994, vol. 13, p. 1137-1143. ISSN 1044-5498.  
Citácie:  
1. [3.2] Group Author(s): Uniprot Consortium. Q06481. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q06481>, Registrované v: Data Citation Index
- ADCA311 KARÁCSONYI, Š. - KOVÁČIK, Vladimír - ALFOLDI, Juraj - KUBAČKOVÁ, Marta. Chemical and C-13-NMR studies of an arabinogalactan from *Larix sibirica* L. In *Carbohydrate Research*, 1984, vol. 134, p. 265-274. ISSN 0008-6215.  
Citácie:  
1. [1.1] NEVEROVA, N. A. - MEDVEDEVA, E. N. - LEVCHUK, A. A. - BABKIN, V. A. The Research of Gmelin Larch (*Larix gmelinii* (Rupr.) Rupr.) Gum. In *RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY*. ISSN 1068-1620, 2018, vol. 44, no. 7, pp. 912-915., Registrované v: WOS  
2. [1.1] TANG, Shuo - JIANG, Meiyun - HUANG, Caoxing - LAI, Chenhuan - FAN, Yimin - YONG, Qiang. Characterization of arabinogalactans from *Larix principis-rupprechtii* and their effects on NO production by macrophages. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 200, no., pp. 408-415., Registrované v: WOS
- ADCA312 KARÁCSONYI, Š. - KUNIAK, Ľudovít. Polysaccharides of *Pleurotus ostreatus*: Isolation and structure of pleuran, an alkali-insoluble beta-D-glucan. In *Carbohydrate Polymers*, 1994, vol. 24, p. 107-111. ISSN 0144-8617.  
Citácie:  
1. [1.1] AMIRULLAH, Nur Amalina - ABIDIN, Nurhayati Zainal - ABDULLAH, Noorlidah. The potential applications of mushrooms against some facets of atherosclerosis: A review. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2018, vol. 105, no., pp. 517-536., Registrované v: WOS  
2. [1.1] JAYACHANDRAN, Muthukumaran - CHEN, Jiali - CHUNG, Stephen Sum Man - XU, Baojun. A critical review on the impacts of beta-glucans on gut microbiota and human health. In *JOURNAL OF NUTRITIONAL BIOCHEMISTRY*. ISSN 0955-2863, 2018, vol. 61, no., pp. 101-110., Registrované v: WOS  
3. [1.1] LAVELLI, Vera - PROSERPIO, Cristina - GALLOTTI, Francesca - LAUREATI, Monica - PAGLIARINI, Ella. Circular reuse of bio-resources: the role of *Pleurotus* spp. in the development of functional foods. In *FOOD & FUNCTION*. ISSN 2042-6496, 2018, vol. 9, no. 3, pp. 1353-1372., Registrované v: WOS  
4. [1.1] VLASENKO, Vyacheslav - VLASENKO, Anastasia. Antiviral activity of fungi of the Novosibirsk Region: *Pleurotus ostreatus* and *P-pulmonarius* (Review). In *IV(VI)TH ALL-RUSSIA SCIENTIFIC-PRACTICAL CONFERENCE PROSPECTS OF DEVELOPMENT AND CHALLENGES OF MODERN BOTANY*. ISSN 2117-4458, 2018, vol. 11, no., pp., Registrované v: WOS  
5. [1.2] KHAN, Asma Ashraf - GANI, Adil - KHANDAY, Firdous A. - MASOODI, F. A. Biological and pharmaceutical activities of mushroom  $\beta$ -glucan discussed as a potential functional food ingredient. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2018-10-01, 16, pp. 1-13., Registrované v: SCOPUS
- ADCA313 KARÁCSONYI, Š. - PĀTOPRSTÝ, Vladimír - KUBAČKOVÁ, M.. Structural study on arabinogalactan-proteins from *Picea abies* L. Karst. In *Carbohydrate Research*, 1998, vol. 307, p. 271-279. (1997: 1.417 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0008-6215.  
Citácie:  
1. [1.1] KETHA, Kiranmayi - GUDIPATI, Muralikrishna. Purification, structural characterization of an arabinogalactan from green gram (*Vigna radiata*) and its role in macrophage activation. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 50, no., pp. 127-136., Registrované v: WOS  
2. [1.1] SHAKHMATOV, Evgeny G. - BELYI, Vladimir A. - MAKAROVA, Elena N. Structure of acid-extractable polysaccharides of tree greenery of *Picea abies*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 320-330., Registrované v: WOS
- ADCA314 KARÁCSONYI, Štefan - TOMAN, Rudolf - JANEČEK, František - KUBAČKOVÁ, Marta. Polysaccharides from the bark of the white willow (*Salix alba* L.): Structure of an arabian. In *Carbohydrate Research*, 1975, vol. 44, p. 285-293. ISSN 0008-6215.  
Citácie:  
1. [1.2] HEMINGWAY, Richard W. Bark: Its chemistry and prospects for chemical utilization. In *Organic Chemicals from Biomass*, 2018-01-01, pp. 189-248., Registrované v: SCOPUS
- ADCA315 KARDOŠOVÁ, Alžbeta - MACHOVÁ, Eva. Antioxidant activity of medicinal plant polysaccharides. In *Fitoterapia*, 2006, vol. 77, p. 367-373. ISSN 0367-326X.  
Citácie:



1. [1.1] FRANCO, Rodrigo Rodrigues - CARVALHO, Dambia da Silva - ROSA DE MOURA, Francielle Borges - JUSTINO, Allisson Benatti - GUERRA SILVA, Heitor Cappato - PEIXOTO, Leonardo Gomes - ESPINDOLA, Foued Salmen. Antioxidant and anti-glycation capacities of some medicinal plants and their potential inhibitory against digestive enzymes related to type 2 diabetes mellitus. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 215, no., pp. 140-146., Registrované v: WOS
  2. [1.1] GUPTA, Mehak - KAUL, Sanjana - DHAR, Manoj K. Identification and characterization of some putative genes involved in arabinoxylan biosynthesis in *Plantago ovata*. In 3 BIOTECH. ISSN 2190-572X, 2018, vol. 8, no. 6, pp., Registrované v: WOS
  3. [1.1] JIAO, Yingchun - KUANG, Hui - HU, Jingjin - CHEN, Qihe. Structural characterization and anti-hypoxia activities of polysaccharides from the sporocarp, fermentation broth and cultured mycelium of *Agaricus bitorquis* (Quel.) Sacc. Chaidam in mice. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 51, no., pp. 75-85., Registrované v: WOS
  4. [1.1] LIANG, Xiaoxia - GAO, Yingying - FEI, Wenbo - ZOU, Yuanfeng - HE, Min - YIN, Lizi - YUAN, Zhixiang - YIN, Zhongqiong - ZHANG, Wei. Chemical characterization and antioxidant activities of polysaccharides isolated from the stems of *Parthenocissus tricuspidata*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 70-78., Registrované v: WOS
  5. [1.1] ZHOU, Changming - YIN, Shaojie - YU, Zhongfang - FENG, Yuxiang - WEI, Kai - MA, Weiming - GE, Lijiang - YAN, Zhengui - ZHU, Ruiliang. Preliminary Characterization, Antioxidant and Hepatoprotective Activities of Polysaccharides from Taishan *Pinus massoniana* Pollen. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 2, pp., Registrované v: WOS
  6. [1.2] MEYGHAN, Narges - MORADI, Pezhman. The effect of nitrogen and phosphorous fertilizers on morphophysiological properties of *Althaea officinalis*. In Iranian Journal of Plant Physiology. ISSN 22285512, 2018-06-01, 8, 4, pp. 2563-2571., Registrované v: SCOPUS
  7. [1.2] TAO, Cui - MENG, Dehao - LI, Linzhu - YAN, Zixi - ZHANG, Xinying - HU, Jianzhong - LV, Zhaolin. Characterization of blueberry polysaccharides in different species at various growth stages. In International Agricultural Engineering Journal. ISSN 08582114, 2018-03-01, 27, 1, pp. 281-288., Registrované v: SCOPUS
  8. [1.2] WANG, Lu Yi - ZHU, Hua Xu. Development and Application Status of Polysaccharide Resources and Analysis on Existing Problems. In Chinese Journal of Pharmaceutical Biotechnology. ISSN 10058915, 2018-02-01, 25, 1, pp. 90-94., Registrované v: SCOPUS
- ADCA316 KARDOŠOVÁ, Alžbeta - MALOVÍKOVÁ, Anna - PÄTOPRSTÝ, Vladimír - NOSÁLOVÁ, G. - MATÁKOVÁ, T. Structural characterization and antitussive activity of a glucuronoxylan from *Mahonia aquifolium* (Pursh) Nutt. In Carbohydrate Polymers, 2002, vol. 47, p. 27-33. (2001: 1.203 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] CHEN, Jiachuan - DONG, Jiran - YANG, Guihua - HE, Ming - XU, Feng - FATEHI, Pedram. A process for purifying xylosugars of pre-hydrolysis liquor from kraft-based dissolving pulp production process. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS
3. [1.2] GUPTA, Praveen Kumar - AGRAWAL, Pushpa - HEDGE, Prabha - AKHTAR, Mohd Sayeed. Xylooligosaccharides and their anticancer potential: An update. In Anticancer Plants: Natural Products and Biotechnological Implements, 2018-01-01, 2, pp. 255-271., Registrované v: SCOPUS

- ADCA317 KARDOŠOVÁ, Alžbeta - MATULOVÁ, Mária - MALOVÍKOVÁ, Anna. (4-O-methyl- $\alpha$ -D-glucurono)-D-xylan from *Rudbeckia fulgida*, var. *sullivantii* (Boynton et Beadle. In Carbohydrate Research, 1998, vol.308, p. 99-105. (1997: 1.417 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] WEI, Lusha - YAN, Tongjing - WU, Yifei - CHEN, Hui - ZHANG, Baoshan. Optimization of alkaline extraction of hemicellulose from sweet sorghum bagasse and its direct application for the production of acidic xylooligosaccharides by *Bacillus subtilis* strain MR44. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS

- ADCA318 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁLOVÁ, G. - FRAŇOVÁ, S. - HŘÍBALOVÁ, V. A biologically active fructan from the roots of *Arctium lappa* L., var. *Herkules*. In International Journal of Biological Macromolecules, 2003, vol. 33., p. 135-140. ISSN 0141-8130.

Citácie:

1. [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In *ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE*. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS
2. [1.1] ZEBARJADI, Alireza - KAZEM, Samaneh - KAHRIZI, Danial. Cell dedifferentiation and multiplication of Burdock (*Arctium Lappa*) as a medicinal plant. In *CELLULAR AND MOLECULAR BIOLOGY*. ISSN 0145-5680, 2018, vol. 64, no. 7, pp. 92-96., Registrované v: WOS
- ADCA319 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁĽOVÁ, G. - MATÁKOVÁ, T. - HŘIBALOVÁ, V. Structural features and biological activity of an acidic polysaccharide complex from Mahonia aquifolium (Pursh) Nutt. In *Carbohydrate Polymers*, 2004, vol. 57, p.165-176. (2003: 1.597 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structure of acid-extractable polysaccharides of tree greenery of *Picea abies*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 320-330., Registrované v: WOS
2. [1.1] WU, Miao - PANG, Jin-Hui - SONG, Ping-Ping - ZHANG, Xue-Ming - PENG, Jian-Jun. Enhancing the Fractionation Efficiency of Hemicellulose from Agricultural Waste using Expansion Pretreatment. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 8976-8992., Registrované v: WOS
- ADCA320 KARELIN, Alexander A. - TSVETKOV, Yury E. - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - NIFANTIEV, Nikolay E. A blockwise approach to the synthesis of (1→2)-linked oligosaccharides corresponding to fragments of the acid-stable β-mannan from the *Candida albicans* cell wall. In *European Journal of Organic Chemistry*, 2016, vol. 2016, p. 1173-1181. (2015: 3.068 - IF, Q2 - JCR, 1.198 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1434-193X.
- Citácie:
1. [1.1] ZENG, Jing - LIU, Yan - CHEN, Wei - ZHAO, Xiang - MENG, Lingkui - WAN, Qian. Glycosyl Sulfoxides in Glycosylation Reactions. In *TOPICS IN CURRENT CHEMISTRY*. ISSN 2365-0869, 2018, vol. 376, no. 4, pp., Registrované v: WOS
- ADCA321 POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Enzymatic synthesis of tyrosol glycosides. In *Journal of Molecular Catalysis B - Enzymatic*, 2015, vol. 113, p. 23-28. (2014: 2.128 - IF, Q3 - JCR, 0.744 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1381-1177.
- Citácie:
1. [1.1] GONZALEZ-ALFONSO, Jose L. - MIGUEZ, Noa - DANIEL PADILLA, J. - LEEMANS, Laura - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - SANDOVAL, Georgina - PLOU, Francisco J. Optimization of Regioselective alpha-Glucosylation of Hesperetin Catalyzed by Cyclodextrin Glucanotransferase. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS
2. [1.1] MIGUEZ, Noa - RAMIREZ-ESCUADERO, Mercedes - GIMENO-PEREZ, Maria - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - FERNANDEZ-LOBATO, Maria - SANZ-APARICIO, Julia - PLOU, Francisco J. Fructosylation of Hydroxytyrosol by the beta-Fructofuranosidase from *Xanthophyllomyces dendrorhous*: Insights into the Molecular Basis of the Enzyme Specificity. In *CHEMCATCHEM*. ISSN 1867-3880, 2018, vol. 10, no. 21, pp. 4892-4901., Registrované v: WOS
3. [1.2] CUI, Ze Xu - XU, Wei - YANG, Xiu Wei - LI, Fu Jun - GONG, Yun - LIU, Ni Fu - ZHANG, Peng. Chemical constituents of lipophilic parts in water extract from stem of *Mahonia fortunei*. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-01-12, 49, 1, pp. 80-89., Registrované v: SCOPUS
- ADCA322 KATRLÍK, Jaroslav - ŠVITEL, Juraj - GEMEINER, Peter - KOŽÁR, Tibor - TKÁČ, Ján. Glycan and lectin microarrays for glycomics and medicinal applications. In *Medicinal Research Reviews*, 2010, vol. 30, no. 2, p. 394-418. (2009: 8.656 - IF, karentované - CCC). (2010 - Current Contents, WOS, SCOPUS). ISSN 0198-6325.
- Citácie:
1. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS
2. [1.1] O'NEIL, Crystal L. - STINE, Keith J. - DEMCHENKO, Alexei V. Immobilization of glycans on solid surfaces for application in glycomics. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 225-249., Registrované v: WOS
3. [1.1] PANZA, Matteo - PISTORIO, Salvatore G. - STINE, Keith J. - DEMCHENKO, Alexei V. Automated Chemical Oligosaccharide Synthesis: Novel Approach to Traditional Challenges. In



CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8105-8150., Registrované v: WOS

4. [1.1] YANG, Yang - JIA, Tian-Wei - XU, Fei - LI, Wei - TAO, Shun - CHU, Li-Qiang - HE, Yun - LI, Yu - IYER, Sun S. - YU, Peng. Fluorescent Neomannosyl Bovine Serum Albumin as Efficient Probe for Mannose Receptor Imaging and MCF-7 Cancer Cell Targeting. In ACS APPLIED NANO MATERIALS. ISSN 2574-0970, 2018, vol. 1, no. 3, pp. 1058-1065., Registrované v: WOS

5. [1.2] WANG, Tinghua - SINGH, Yashpal - STINE, Keith J. - DEMCHENKO, Alexei V. Investigation of Glycosyl Nitrates as Building Blocks for Chemical Glycosylation. In European Journal of Organic Chemistry. ISSN 1434193X, 2018-12-19, 2018, 47, pp. 6699-6705., Registrované v: SCOPUS

ADCA323 KATRLÍK, Jaroslav - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana, Blahutová - TKÁČ, Ján - MASTIHUBA, Vladimír - VALACH, M. - ŠTEFUCA, V. - GEMEINER, Peter. A novel microbial biosensor based on cells of Gluconobacter oxydans for the selective determination of 1,3-propanediol in the presence of glycerol and its application to bioprocess monitoring. In Analytical and Bioanalytical Chemistry, 2007, vol. 338, p.287-295. ISSN 1618-2642.

Citácie:

1. [1.1] ALMENA, Alberto - BUENO, Laura - DIEZ, Marcos - MARTIN, Mariano. Integrated biodiesel facilities: review of glycerol-based production of fuels and chemicals. In CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY. ISSN 1618-954X, 2018, vol. 20, no. 7, pp. 1639-1661., Registrované v: WOS

2. [1.1] MOTA, Maria J. - LOPES, Rita P. - SOUSA, Sergio - GOMES, Ana M. - DELGADILLO, Ivonne - SARAIVA, Jorge A. Lactobacillus reuteri growth and fermentation under high pressure towards the production of 1,3-propanediol. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 113, no., pp. 424-432., Registrované v: WOS

3. [1.1] MOTA, Maria J. - LOPES, Rita P. - SOUSA, Sergio - GOMES, Ana M. - LORENZO, Jose M. - BARBA, Francisco J. - DELGADILLO, Ivonne - SARAIVA, Jorge A. Utilization of glycerol during consecutive cycles of Lactobacillus reuteri fermentation under pressure: The impact on cell growth and fermentation profile. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 75, no., pp. 39-48., Registrované v: WOS

ADCA324 KÉRY, V. - KREPINSKY, J.F. - WARREN, Ch.D. - CAPEK, Peter - STAHL, P.D. Ligand Recognition by Purified Human Mannose Receptor. In Archives of Biochemistry and Biophysics, 1992, vol. 298, no. 1, p. 49-55.

Citácie:

1. [1.1] GLAFFIG, Markus - STERGIOU, Natascha - HARTMANN, Sebastian - SCHMITT, Edgar - KUNZ, Horst. A Synthetic MUC1 Anticancer Vaccine Containing Mannose Ligands for Targeting Macrophages and Dendritic Cells. In CHEMMEDCHEM. ISSN 1860-7179, 2018, vol. 13, no. 1, pp. 25-29., Registrované v: WOS

2. [1.1] HU, Jing - WEI, Peng - SEEBERGER, Peter H. - YIN, Jian. Mannose-Functionalized Nanoscaffolds for Targeted Delivery in Biomedical Applications. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, 2018, vol. 13, no. 22, pp. 3448-3459., Registrované v: WOS

ADCA325 KÉRY, V. - KOGAN, Grigorij - ZAJACOVÁ, K. - SLÁMOVÁ, K. - MASLER, Ladislav - ALFOLDI, Juraj. Hydrolysis of yeast cell-wall glucan by extracellular (1-3)- $\beta$ -glucanases from Aspergillus niger. In Enzyme and Microbial Technology, 1991, vol. 13, p. 87-90. ISSN 0141-0229.

Citácie:

1. [1.1] DUBROVSKAYA, Yu. V. - SHUBINA, L. K. - MAKARIEVA, T. N. - BAKUNINA, I. Yu. The Effect of Pentacyclic Guanidine Alkaloids from the Marine Sponge Monanchora pulchra Lambe, 1894 on the Activity of Natural beta-1,3-D-glucanase from the Marine Fungus Chaetomium indicum Corda, 1840 and the Marine Bivalve Mollusk Spisula sachalinensis, Schrenck, 1861. In RUSSIAN JOURNAL OF MARINE BIOLOGY. ISSN 1063-0740, 2018, vol. 44, no. 2, pp. 127-134., Registrované v: WOS

ADCA326 KHALIKOVA, T.A. - ZHANAEVA, S.Ya - KOROLENKO, T.A. - KALEDIN, V.I. - KOGAN, Grigorij. Regulation of activity of cathepsins B. L., and D in murine lymphosarcoma model at a combined treatment with cyclophosphamide and yeast polysaccharide. In Cancer Letters, 2005, vol. 223, p. 77-83. ISSN 0304-3835.

Citácie:

1. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidant activity, and anti-carcinoma activity of exopolysaccharide extract from Rhodotorula mucilaginosa CICC 33013. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS

ADCA327 KHAN, R. - KONOWICZ, P.A. - GARDOSSI, L. - MATULOVÁ, Mária - DEGENNARO, S. Regioselective deacetylation of fully acetylated mono- and disaccharides with hydrazine hydrate. In Australian Journal of Chemistry, 1996, vol. 49, p. 293-298 (. ISSN 0004-9425.

## Citácie:

1. [1.1] LEIENDECKER, Mai-Thi - LICHT, Christopher J. - BORGHS, Jannik - MOONEY, David J. - ZIMMERMANN, Marc - BOEKER, Alexander. *Physical Polyurethane Hydrogels via Charge Shielding through Acids or Salts*. In *MACROMOLECULAR RAPID COMMUNICATIONS*. ISSN 1022-1336, 2018, vol. 39, no. 7, pp., Registrované v: WOS
  2. [1.1] PINZON MARTIN, Sandra Milena - FIERRO MEDINA, Ricardo - IREGUI CASTRO, Carlos Arturo - RIVERA MONROY, Zuly Jenny - GARCIA CASTANEDA, Javier Eduardo. *Novel Synthesis of N-Glycosyl Amino Acids Using T3P (R): Propylphosphonic Acid Cyclic Anhydride as Coupling Reagent*. In *INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS*. ISSN 1573-3149, 2018, vol. 24, no. 2, pp. 291-298., Registrované v: WOS
- ADCA328 KIS, Peter - POTOCKÁ, Elena - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Efficient chemoenzymatic synthesis of 4-nitrophenyl  $\beta$ -D-apiofuranoside and its use in screening of  $\beta$ -D-apiofuranosidases. In *Carbohydrate Research*, 2016, vol. 430, p. 48-53. (2015: 1.817 - IF, Q2 - JCR, 0.590 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] AVCI, Utku - PENA, Maria J. - O'NEILL, Malcolm A. *Changes in the abundance of cell wall apiogalacturonan and xylogalacturonan and conservation of rhamnogalacturonan II structure during the diversification of the Lemnoideae*. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 4, pp. 953-971., Registrované v: WOS
- ADCA329 KLAUDINY, Jaroslav - HANES, J. - KULIFAJOVA, J. - ALBERT, Š. - ŠIMÚTH, Jozef. Molecular cloning of of two cDNAs from the head of the nurse honey bee (*Apis Mellifera* L.) for coding related proteins of royal jelly. In *Journal of Apicultural Research*, 1994, vol. 33, p. 105-111. ISSN 0021-8839.
- Citácie:
1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. *A review on Royal Jelly proteins and peptides*. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
- ADCA330 KLAUDINY, Jaroslav - KULIFAJOVA, J. - CRAILSHEIM, K. - ŠIMÚTH, Jozef. New approach to the study of division of labour in the honeybee colony (*Apis mellifera* L.). In *Apidologie*, 1994, vol. 25, p. 596-600. ISSN 0044-8435.
- Citácie:
1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. *A review on Royal Jelly proteins and peptides*. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
- ADCA331 KLAUDINY, Jaroslav - ALBERT, Š. - BACHANOVÁ, K. - KOPERNICKÝ, J. - ŠIMÚTH, Jozef. Two structurally different defensin genes, one of them encoding a novel defensin isoform, are expressed in honeybee *Apis mellifera*. In *Insect Biochemistry and Molecular Biology*, 2005, vol. 35, p. 11-22. (2005 - Current Contents). ISSN 0965-1748.
- Citácie:
1. [1.1] ARAUJO, Natalia S. - SANTOS, Priscila Karla F. - ARIAS, Maria Cristina. *RNA-Seq reveals that mitochondrial genes and long non-coding RNAs may play important roles in the bivoltine generations of the non-social Neotropical bee *Tetrapedia diversipes**. In *APIDOLOGIE*. ISSN 0044-8435, 2018, vol. 49, no. 1, pp. 3-12., Registrované v: WOS
  2. [1.1] COLLISON, Elizabeth J. - HIRD, Heather - TYLER, Charles R. - CRESSWELL, James E. *Effects of neonicotinoid exposure on molecular and physiological indicators of honey bee immunocompetence*. In *APIDOLOGIE*. ISSN 0044-8435, 2018, vol. 49, no. 2, pp. 196-208., Registrované v: WOS
  3. [1.1] DANIHLIK, Jiri - SKRABISOVA, Maria - LENOBEL, Rene - SEBELA, Marek - OMAR, Eslam - PETRIVALSKEY, Marek - CRAILSHEIM, Karl - BRODSCHNEIDER, Robert. *Does the Pollen Diet Influence the Production and Expression of Antimicrobial Peptides in Individual Honey Bees?* In *INSECTS*. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS
  4. [1.1] SINPOO, Chainarong - PAXTON, Robert J. - DISAYATHANOWAT, Terd - KRONGDANG, Sasiprapa - CHANTAWANNAKUL, Panuwan. *Impact of Nosema ceranae and Nosema apis on individual worker bees of the two host species (*Apis cerana* and *Apis mellifera*) and regulation of host immune response*. In *JOURNAL OF INSECT PHYSIOLOGY*. ISSN 0022-1910, 2018, vol. 105, no., pp. 1-8., Registrované v: WOS
  5. [1.2] KHAN, Shahid Ullah - ANJUM, Syed Ishtiaq - RAHMAN, Khaista - ANSARI, Mohammad Javed - KHAN, Wasim Ullah - KAMAL, Sajid - KHATTAK, Baharullah - MUHAMMAD, Ali - KHAN, Hikmat Ullah. *Honey: Single food stuff comprises many drugs*. In *Saudi Journal of Biological Sciences*. ISSN 1319562X, 2018-02-01, 25, 2, pp. 320-325., Registrované v: SCOPUS
  6. [3.2] Group Author(s). Uniprot Consortium. P17722. IN UniProt Knowledgebase, 2018.

Dostupné na internete: <http://www.uniprot.org/uniprot/P17722>, Registrované v: Data Citation Index

- ADCA332 KLIKA, K.D. - VALTAMO, P. - JANOVEC, L. - SUCHÁR, G. - KRISTIAN, P. - IMRICH, J. - KIVELA, H. - ALFOLDI, Juraj - PIHLAJA, K. Regioselective syntheses, structural characterization, and electron ionization mass spectrometric behavior of regioisomeric 2,3- disubstituted 2-imino-1,3-thiazolidin-4-ones. In Rapid Communications in Mass Spectrometry, 2004, vol. 18, p. 87-95. ISSN 0951-4198.
- Citácie:
- [1.1] HASSAN, Alaa A. - MAKHLOUF, Maysa M. Thiazolidine-4-ones from Thiocarbonyldrazides. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2018, vol. 55, no. 11, pp. 2480-2506., Registrované v: WOS
- ADCA333 KLONOWSKA, I. - JANÁK, Marian - MAJKA, Jarosław - PETRÍK, Igor - FROITZHEIM, Nikolaus - GEE, David G. - SASINKOVÁ, Vlasta. Microdiamond on Åreskutan confirms regional UHP metamorphism in the Seve Nappe Complex of the Scandinavian Caledonides. In Journal of Metamorphic Geology, 2017, vol. 35, no. 5, p. 541-564. (2016: 3.594 - IF, Q1 - JCR, 2.419 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0263-4929.
- Citácie:
- [1.1] BENDER, H. - RING, U. - ALMQVIST, B. S. G. - GRASEMANN, B. - STEPHENS, M. B. Metamorphic Zonation by Out-of-Sequence Thrusting at Back-Stepping Subduction Zones: Sequential Accretion of the Caledonian Internides, Central Sweden. In TECTONICS. ISSN 0278-7407, 2018, vol. 37, no. 10, pp. 3545-3576., Registrované v: WOS
  - [1.1] FERRERO, Silvio - ANGEL, Ross J. Micropetrology: Are Inclusions Grains of Truth? In JOURNAL OF PETROLOGY. ISSN 0022-3530, 2018, vol. 59, no. 9, pp. 1671-1700., Registrované v: WOS
  - [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. Replacement reactions and deformation by dissolution and precipitation processes in amphibolites. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2018, vol. 36, no. 9, pp. 1263-1286., Registrované v: WOS
  - [1.1] KELLER, Duncan S. - AGUE, Jay J. High-pressure granulite facies metamorphism (similar to 1.8 GPa) revealed in silica-undersaturated garnet-spinel-corundum gneiss, Central Maine Terrane, Connecticut, USA. In AMERICAN MINERALOGIST. ISSN 0003-004X, 2018, vol. 103, no. 11, pp. 1851-1868., Registrované v: WOS
  - [1.1] PARISATTO, Matteo - TURINA, Alice - CRUCIANI, Giuseppe - MANCINI, Lucia - PERUZZO, Luca - CESARE, Bernardo. Three-dimensional distribution of primary melt inclusions in garnets by X-ray microtomography. In AMERICAN MINERALOGIST. ISSN 0003-004X, 2018, vol. 103, no. 6, pp. 911-926., Registrované v: WOS
  - [1.1] SKELTON, Alasdair - MANSFELD, Joakim - AHLIN, Stellan - LUNDQVIST, Thomas - LINDE, Josefín - NILSSON, Jonas. A compilation of metamorphic pressure-temperature estimates from the Svecofennian province of eastern and central Sweden. In GFF. ISSN 1103-5897, 2018, vol. 140, no. 1, pp. 1-10., Registrované v: WOS
- ADCA334 KLUG-SANTNER, B.G. - SCHNITZHOFFER, W. - VRŠANSKÁ, Mária - WEBER, J. - AGRAWAL, P.B. - NIERSTRASZ, V.A. - GUEBITZ, G.M. Purification and characterization of a new bioscouring pectate lyase from Bacillus pumilus BK2. In Journal of Biotechnology, 2006, vol. 121, p. 390-401. ISSN 0168-1656.
- Citácie:
- [1.1] KAVUTHODI, Bijesh - SEBASTIAN, Denoj. Review on bacterial production of alkaline pectinase with special emphasis on Bacillus species. In BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS. ISSN 0974-6455, 2018, vol. 11, no. 1, pp. 18-30., Registrované v: WOS
  - [1.1] KHAN, Md Maruf - CHOI, Yoon Seok - KIM, Young Kyun - YOO, Jin Cheol. Immobilization of an alkaline endopolygalacturonase purified from Bacillus paralicheniformis exhibits bioscouring of cotton fabrics. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, 2018, vol. 41, no. 10, pp. 1425-1436., Registrované v: WOS
  - [1.1] WANG, Xiaowen - LU, Zhenghui - XU, Ting - SELVARAJ, Jonathan Nimal - YI, Li - ZHANG, Guimin. Improving the specific activity and thermo-stability of alkaline pectate lyase from Bacillus subtilis 168 for bioscouring. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 129, no., pp. 74-83., Registrované v: WOS
- ADCA335 KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ČERNÁKOVÁ, M. - SLÁVIKOVÁ, Elena. Morphological changes during the life cycle of aureobasidium pullulans (DE BARY) ARNAUD. In Folia Microbiologica, 1980, vol. 25, p. 56-67. ISSN 0015-5632.
- Citácie:
- [1.1] PEETERS, Loes H. M. - HUININK, Hendrik P. - VOOGT, Benjamin - ADAN, Olaf C. G. Oil type and cross-linking influence growth of Aureobasidium melanogenum on vegetable oils as a



ADCA336

single carbon source. In *MICROBIOLOGYOPEN*. ISSN 2045-8827, 2018, vol. 7, no. 6, pp.,  
 Registrované v: WOS

KOGAN, Grigorij - ŠOLTĚS, Ladislav - STERN, Robert - GEMEINER, Peter. Hyaluronic acid: a natural biopolymer with a broad range of biomedical and industrial applications. In *Biotechnology Letters*, 2007, vol. 29, no. 1, p. 17-25. (2006: 1.134 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] AHADIAN, S. - CIVITARESE, R. - BANNERMAN, D. - MOHAMMADI, M.H. - LU, R. - WANG, E. - DAVENPORT-HUYER, L. - LAI, B. - ZHANG, B.Y. - ZHAO, Y.M. - MANDLA, S. - KOROLJ, A. - RADISIC, M. *Organ-On-A-Chip Platforms: A Convergence of Advanced Materials, Cells, and Microscale Technologies*. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2018, vol. 7, no. 2, SI., art. no. 1700506., Registrované v: WOS
2. [1.1] ALBANI, F. - BONFIGLI, A. - CONSOLARO, F. - RIGANO, L. - CAMPISI, M. *Hydrating cleansing: efficacy and tolerability of new formulations with hyaluronic acid 0.2% for intimate hygiene in the woman in fertile age and menopause*. In *MINERVA GINECOLOGICA*. ISSN 0026-4784, 2018, vol. 70, no. 2, p. 220-233., Registrované v: WOS
3. [1.1] BROWNE, S. - JHA, A.K. - AMERI, K. - MARCUS, S.G. - YEGHIAZARIANS, Y. - HEALY, K.E. *TGF- $\beta$ 1/CD105 signaling controls vascular network formation within growth factor sequestering hyaluronic acid hydrogels*. In *PLoS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 3, art. no. e0194679., Registrované v: WOS
4. [1.1] D'AMORA, U. - RONCA, A. - RAUCCI, M.G. - LIN, H. - SORIENTE, A. - FAN, Y. - ZHANG, X. - AMBROSIO, L. *Bioactive composites based on double network approach with tailored mechanical, physico-chemical, and biological features*. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*. ISSN 1549-3296, 2018, vol. 106, no. 12, p. 3079-3089., Registrované v: WOS
5. [1.1] DE VRIES, S.A.H. - VAN DOESELAAR, M. - KAPER, H.J. - SHARMA, P.K. - ITO, K. *Notochordal cell matrix as a bioactive lubricant for the osteoarthritic joint*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, art. no. 8875., Registrované v: WOS
6. [1.1] DIKER, N. - GULSEVER, S. - KOROGLU, T. - AKCAY, E.Y. - OGUZ, Y. *Effects of Hyaluronic Acid and Hydroxyapatite/Beta-tricalcium Phosphate in Combination on Bone Regeneration of a Critical-size Defect in an Experimental Model*. In *JOURNAL OF CRANIOFACIAL SURGERY*. ISSN 1049-2275, 2018, vol. 29, no. 4, p. 1087-1093., Registrované v: WOS
7. [1.1] FALLACARA, A. - BALDINI, E. - MANFREDINI, S. - VERTUANI, S. *Hyaluronic Acid in the Third Millennium*. In *POLYMERS*. ISSN 2073-4360, 2018, vol. 10, no. 7, art. no. 701., Registrované v: WOS
8. [1.1] FRIZZIERO, A. - OLIVA, F.V.F. - BERARDI, A. - CECCARELLI, F. - COSTANTINO, C. - FALDINI, C. - FOTI, C. - MASIERO, S. - PORCELLINI, G. - VULPIANI, M.C. - ABATANGELO, G. - MAHMOUD, A. - BUONOCORE, D. - BUDA, R. - DOSSENA, M. - FRIZZIERO, L. - GALLETTI, S. - VIA, A.G. - MEROLLA, G. - MIGLIORE, A. - NICOLETTI, S. - PADOLINO, A. - TERRENI, M. - VALENT, A. - VANNINI, F. - VERRI, M. - VETRANO, M. - BACCIU, S. - BOSSA, M. - CALDERAZZI, F. - CAROLLA, A. *I.S.Mu.L.T. hyaluronic acid injections in musculoskeletal disorders guidelines*. In *MUSCLES, LIGAMENTS AND TENDONS*. ISSN 2240-4554, 2018, vol. 8, no. 3, p. 364-398., Registrované v: WOS
9. [1.1] GAMARRA, A. - MUNOZ-GUERRA, S. - DE ILARDUYA, A.M. - THERIEN-AUBIN, H. - LANDFESTER, K. *Comblike Ionic Complexes of Hyaluronic Acid and Alkanoylcholine Surfactants as a Platform for Drug Delivery Systems*. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 9, p. 3669-3681., Registrované v: WOS
10. [1.1] GAO, P.F. - LIU, Y.X. - ZHANG, L.N. - ZHANG, S.M. - LI, H.W. - WU, Y.Q. - WU, L.X. *Cell receptor screening for human papillomavirus invasion by using a polyoxometalate-peptide assembly as a probe*. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 514, p. 407-414., Registrované v: WOS
11. [1.1] GE, J. - CAI, R. - YANG, L. - ZHANG, L. - JIANG, Y. - YANG, Y. - CUI, C. - WAN, S. - CHU, X. - TAN, W. *Core-Shell HA-AuNPs@SiNPs Nanoprobe for Sensitive Fluorescence Hyaluronidase Detection and Cell Imaging*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2018, vol. 6, no. 12, p. 16555-16562., Registrované v: WOS
12. [1.1] GEDIKLI, S. - GUNGOR, G. - TOPTAS, Y. - SEZGIN, D.E. - DEMIRBILEK, M. - YAZIHAN, N. - CELIK, P.A. - DENKBAS, E.B. - BUTUN, V. - CABUK, A. *Optimization of hyaluronic acid production and its cytotoxicity and degradability characteristics*. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2018, vol. 48, no. 7, p. 610-618., Registrované v: WOS
13. [1.1] GHODKE, R.S. - KAKATI, J.P. - TADI, S.R.R. - MOHAN, N. - SIVAPRAKASAM, S. *Kinetic modeling of hyaluronic acid production in palmyra palm (Borassus flabellifer) based*

- medium by *Streptococcus zooepidemicus* MTCC 3523. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 137, p. 284-293., Registrované v: WOS
14. [1.1] GUZINSKA, K. - KAZMIERCZAK, D. - DYMEL, M. - PABJANCZYK-WLAZLO, E. - BOGUN, M. Anti-bacterial materials based on hyaluronic acid: Selection of research methodology and analysis of their anti-bacterial properties. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2018, vol. 93, p. 800-808., Registrované v: WOS
15. [1.1] HENRY, L. - DELSUC, N. - LAUGEL, C. - LAMBERT, F. - SANDT, C. - HOSTACHY, S. - BERNARD, A.S. - BERTRAND, H.C. - GRIMAUD, L. - BAILLET-GUFFROY, A. - POLICAR, C. Labeling of Hyaluronic Acids with a Rhenum-tricarboxyl Tag and Percutaneous Penetration Studied by Multimodal imaging. In *BIOCONJUGATE CHEMISTRY*. ISSN 1043-1802, 2018, vol. 29, no. 4, p. 987-991., Registrované v: WOS
16. [1.1] JAMPILEK, J. - KRALOVA, K. Application of Nanobioformulations for controlled release and targeted biodistribution of drugs. In Sharma, A.K. et al. eds. *NANOBIOMATERIALS: APPLICATIONS IN DRUG DELIVERY*. Oakville: Apple Acad. Press, 2018, p. 131-208. ISBN 978-1-315-20491-8; 978-1-77188-591-1., Registrované v: WOS
17. [1.1] KOWITSCH, A. - ZHOU, G.Y. - GROTH, T. Medical application of glycosaminoglycans: a review. In *JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE*. ISSN 1932-6254, 2018, vol. 12, no. 1, p. E23-E41., Registrované v: WOS
18. [1.1] KRAWCZYK, T. - ZALEWSKI, M. - JANETA, A. - HODUREK, P. SEC Separation of Polysaccharides Using Macroporous Spherical Silica Gel as a Stationary Phase. In *CHROMATOGRAPHIA*. ISSN 0009-5893, 2018, vol. 81, no. 10, p. 1365-1372., Registrované v: WOS
19. [1.1] LI, H.Y. - XUE, Y.H. - JIA, B. - BAI, Y. - ZUO, Y.Y. - WANG, S.G. - ZHAO, Y.Y. - YANG, W.Z. - TANG, H.B. The preparation of hyaluronic acid grafted pullulan polymers and their use in the formation of novel biocompatible wound healing film. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 188, p. 92-100., Registrované v: WOS
20. [1.1] LIU, J. - WANG, Y. - LI, Z. - REN, Y. - ZHAO, Y. - ZHAO, G. Efficient production of high-molecular-weight hyaluronic acid with a two-stage fermentation. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 63, p. 36167-36171., Registrované v: WOS
21. [1.1] MAUDENS, P. - MEYER, S. - SEEMAYER, C.A. - JORDAN, O. - ALLEMANN, E. Self-assembled thermoresponsive nanostructures of hyaluronic acid conjugates for osteoarthritis therapy. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 4, p. 1845-1854., Registrované v: WOS
22. [1.1] OROBIA, A.J.M. - SAA, J. - LORENZO, A.O. - HERRERAS, J.M. Combination of hyaluronic acid, carmellose, and osmoprotectants for the treatment of dry eye disease. In *CLINICAL OPHTHALMOLOGY*. ISSN 1177-5483, 2018, vol. 12, p. 453-461., Registrované v: WOS
23. [1.1] PASCALI, M. - QUARATO, D. - CARINCI, F. Filling Procedures for Lip and Perioral Rejuvenation: A Systematic Review. In *REJUVENATION RESEARCH*. ISSN 1549-1684, 2018, vol. 21, no. 6, p. 553-559., Registrované v: WOS
24. [1.1] PETROU, G. - CROUZIER, T. Mucins as multifunctional building blocks of biomaterials. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2018, vol. 6, no. 9, p. 2282-2297., Registrované v: WOS
25. [1.1] PILGROVÁ, T. - VENEROVÁ, T. - MRAVEC, F. - PEKAŘ, M. Interactions of hyaluronan with oppositely charged surfactants in very diluted solutions in water. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 112, p. 241-249., Registrované v: WOS
26. [1.1] PUVENDRAN, K. - ANUPAMA, K. - JAYARAMAN, G. Real-time monitoring of hyaluronic acid fermentation by in situ transfectance spectroscopy. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 6, p. 2659-2669., Registrované v: WOS
27. [1.1] ROIG, F. - BLANZAT, M. - SOLANS, C. - ESQUENA, J. - GARCÍA-CELMA, M.J. Hyaluronan based materials with catanionic sugar-derived surfactants as drug delivery systems. In *COLLOIDS AND SURFACES B: BIOINTERFACES*. ISSN 0927-7765, 2018, vol. 164, p. 218-223., Registrované v: WOS
28. [1.1] SAMSOM, M. - KOROGIANNAKI, M. - SUBBARAMAN, L.N. - SHEARDOWN, H. - SCHMIDT, T.A. Hyaluronan incorporation into model contact lens hydrogels as a built-in lubricant: Effect of hydrogel composition and proteoglycan 4 as a lubricant in solution. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS*. ISSN 1552-4973, 2018, vol. 106, no. 5, p. 1818-1826., Registrované v: WOS
29. [1.1] SHAFIAIE, S. - HUTTER, V. - BROWN, M.B. - COOK, M.T. - CHAU, D.Y.S. Diffusion through the ex vivo vitreal body - Bovine, porcine, and ovine models are poor surrogates for the



- human vitreous. In *INTERNATIONAL JOURNAL OF PHARMACEUTICS*. ISSN 0378-5173, 2018, vol. 550, no. 1-2, p. 207-215., Registrované v: WOS
30. [1.1] SHAHBAZI, M.-A. - SEDIGHI, M. - BAULETH-RAMOS, T. - KANT, K. - CORREIA, A. - POURSIANA, N. - SARMENTO, B. - HIRVONEN, J. - SANTOS, H.A. Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. In *ACS OMEGA*. ISSN 2470-1343, 2018, vol. 3, no. 12, p. 18444-18455., Registrované v: WOS
31. [1.1] SITHOLE, M.N. - CHOONARA, Y.E. - DU TOIT, L.C. - KUMAR, P. - MARIMUTHU, T. - KONDIAH, P.P.D. - PILLAY, V. Development of a Novel Polymeric Nanocomposite Complex for Drugs with Low Bioavailability. In *AAPS PHARMSCITECH*. ISSN 1530-9932, 2018, vol. 19, no. 1, p. 303-314., Registrované v: WOS
32. [1.1] SONVICO, F. - BARBIERI, S. - COLOMBO, P. - MUCCHINO, C. - BAROCELLI, E. - CANTONI, A.M. - CAVAZZONI, A. - PETRONINI, P.G. - RUSCA, M. - CARBOGNANI, P. - AMPOLLINI, L. Physicochemical and pharmacokinetic properties of polymeric films loaded with cisplatin for the treatment of malignant pleural mesothelioma. In *JOURNAL OF THORACIC DISEASE*. ISSN 2072-1439, 2018, vol. 10, p. S194-S206., Registrované v: WOS
33. [1.1] SUNGUROGLU, C. - SEZGIN, D.E. - CELIK, P.A. - CABUK, A. Higher titer hyaluronic acid production in recombinant *Lactococcus lactis*. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2018, vol. 48, no. 8, p. 734-742., Registrované v: WOS
34. [1.1] SVECHKAREV, D. - KYRYCHENKO, A. - PAYNE, W.M. - MOHS, A.M. Probing the self-assembly dynamics and internal structure of amphiphilic hyaluronic acid conjugates by fluorescence spectroscopy and molecular dynamics simulations. In *SOFT MATTER*. ISSN 1744-683X, 2018, vol. 14, no. 23, p. 4762-4771., Registrované v: WOS
35. [1.1] THALLER, M. - BOHM, H. - LINGENFELDER, C. - GEIGER, F. Hyaluronic acid gels for pressure regulation in glaucoma treatment. In *OPHTHALMOLOGE*. ISSN 0941-293X, 2018, vol. 115, no. 3, p. 195-201., Registrované v: WOS
36. [1.1] TURNBULL, G. - CLARKE, J. - PICARD, F. - RICHES, P. - JIA, L.L. - HAN, F.X. - LI, B. - SHU, W.M. 3D bioactive composite scaffolds for bone tissue engineering. In *BIOACTIVE MATERIALS*. ISSN 2452-199X, 2018, vol. 3, no. 3, p. 278-314., Registrované v: WOS
37. [1.1] VIGNESH, S. - SIVASHANMUGAM, A. - MOHANDAS, A. - JANARTHANAN, R. - IYER, S. - NAIR, S.V. - JAYAKUMAR, R. Injectable deferroxamine nanoparticles loaded chitosan-hyaluronic acid coacervate hydrogel for therapeutic angiogenesis. In *COLLOIDS AND SURFACES B-BIOINTERFACES*. ISSN 0927-7765, 2018, vol. 161, p. 129-138., Registrované v: WOS
38. [1.1] WALSH, J.P. - FARRELL, T.P. - HYNES, J. - HUGHES, N. - O';BYRNE, C. - EUSTACE, S.J. Therapeutic Intervention in Musculoskeletal Radiology: Current Practice and Future Directions. In *SEMINARS IN MUSCULOSKELETAL RADIOLOGY*. ISSN 1089-7860, 2018, vol. 22, no. 5, p. 546-563., Registrované v: WOS
39. [1.1] WESTBROOK, A.W. - REN, X. - OH, J. - MOO-YOUNG, M. - CHOU, C.P. Metabolic engineering to enhance heterologous production of hyaluronic acid in *Bacillus subtilis*. In *METABOLIC ENGINEERING*. ISSN 1096-7176, 2018, vol. 47, p. 401-413., Registrované v: WOS
40. [1.1] XU, X. - WEN, C.R. - AI, C.Q. - CAO, C.Y. - YU, Q. - QU, F.J. - WANG, Z.F. - SONG, S. Quantitative Analysis of Acidic Polysaccharides Using Hydrophilic Interaction Chromatography and Mass Spectrometry after Acid Hydrolysis. In *CURRENT PHARMACEUTICAL ANALYSIS*. ISSN 1573-4129, 2018, vol. 14, no. 5, p. 443-449., Registrované v: WOS
41. [1.1] ZBINDEN, A. - BROWNE, S. - ALTIOK, E.I. - SVEDLUND, F.L. - JACKSON, W.M. - HEALY, K.E. Multivalent conjugates of basic fibroblast growth factor enhance in vitro proliferation and migration of endothelial cells. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2018, vol. 6, no. 5, p. 1076-1083., Registrované v: WOS
42. [1.1] ZHANG, J.N. - CHEN, B.Z. - ASHFAQ, M. - ZHANG, X.P. - GUO, X.D. Development of a BDDE-crosslinked hyaluronic acid based microneedles patch as a dermal filler for anti-ageing treatment. In *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY*. ISSN 1226-086X, 2018, vol. 65, p. 363-369., Registrované v: WOS
43. [1.1] ZHANG, W. - JIN, X. - LI, H. - ZHANG, R.R. - WU, C.W. Injectable and body temperature sensitive hydrogels based on chitosan and hyaluronic acid for pH sensitive drug release. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 186, p. 82-90., Registrované v: WOS
44. [1.1] ZHOU, L. - QIU, T. - LV, F. - LIU, L. - YING, J. - WANG, S. Self-Assembled Nanomedicines for Anticancer and Antibacterial Applications. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2018, vol. 7, no. 20, art. no. 1800670., Registrované v: WOS
45. [1.1] ZHOU, T. - YU, Z.H. - JIAN, M.Y. - AHMAD, I. - TREMPUS, C. - WAGENER, B.M. - PITTET, J.F. - AGGARWAL, S. - GARANTZIOTIS, S. - SONG, W.F. - MATALON, S. Instillation of hyaluronan reverses acid instillation injury to the mammalian blood gas barrier. In *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR*

- PHYSIOLOGY. ISSN 1040-0605, 2018, vol. 314, no. 5, p. L808-L821., Registrované v: WOS
46. [1.1] ZIDAN, G. - RUPENTHAL, I.D. - GREENE, C. - SEYFODDIN, A. Medicated ocular bandages and corneal health: potential excipients and active pharmaceutical ingredients. In PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY. ISSN 1083-7450, 2018, vol. 23, no. 3, p. 255-260., Registrované v: WOS
47. [1.2] JAIN, Sanjay Kumar - TIWARI, Ankita - JAIN, Ankit - VERMA, Amit - SARAF, Shivani - PANDA, Pritish Kumar - GOUR, Gaytri. Application potential of polymeric nanoconstructs for colon-specific drug delivery. In MULTIFUNCTIONAL NANOCARRIERS FOR CONTEMPORARY HEALTHCARE APPLICATIONS, 2018, pp. 22-49., Registrované v: SCOPUS
48. [1.2] MIAO, Tianxin - WANG, Junqing - ZENG, Yun - LIU, Gang - CHEN, Xiaoyuan. Polysaccharide-Based Controlled Release Systems for Therapeutics Delivery and Tissue Engineering: From Bench to Bedside. In ADVANCED SCIENCE. ISSN 2198-3844, 2018, vol. 5, no. 4, art. no. 1700513., Registrované v: SCOPUS
49. [1.2] NIE, Shaoping - TANG, Wei - YIN, Junyi - XIE, Mingyong. Research Progress on Structure and Functional Activities of Food-Derived Polysaccharides. In JOURNAL OF CHINESE INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY. ISSN 1009-7848, 2018, vol. 18, no. 12, pp. 1-12., Registrované v: SCOPUS
50. [1.2] ROHIT, Sheshrao Ghodke - JYOTI, Prasad Kakati - SUBBI, Rami Reddy Tadi - NARESH, Mohan - SENTHILKUMAR, Sivaprakasam. Kinetic modeling of hyaluronic acid production in palmyra palm (*Borassus flabellifer*) based medium by *Streptococcus zooepidemicus* MTCC 3523. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 137, pp. 284-293., Registrované v: SCOPUS
51. [1.2] SMITH, David K. Chapter 9: Applications of Supramolecular Gels. In MONOGRAPHS IN SUPRAMOLECULAR CHEMISTRY. ISSN 1368-8642, 2018, Vol. 2018-January, no. 25, pp. 300-371., Registrované v: SCOPUS
52. [3.2] BUBNOVA, I.A. - EGOROVA, G.B. - MITICHKINA, T.S. - AVERICH, V.V. - FETTSEER, E.I. Secondary dry eye syndrome after keratorefractive surgeries and approaches to its treatment and prevention. In VESTNIK OFTAL'MOLOGII. ISSN 0042-465X, 2018, vol. 134, no. 5-2, p. 294-298., Registrované v: Russian Science Citation Index
53. [3.2] MUTLU, E.C. - YILDIRIM, M. Improved Morphology and Biocompatibility of Chitosan/PEO Casting Films Adding Hyaluronic Acid. In HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY. ISSN 1303-5002, 2018, vol. 46, no. 3, p. 365-372., Registrované v: BIOSIS Citation Index

ADCA337 KOGAN, Grigorij. (1-3, 1-6)-beta-D-glucans of yeasts and fungi and their biological activity. In Attaur (ed.). Studies in Natural Products Chemistry: Bioactive Natural Products, 2000, vol. 23, part D, p. 107-152. ISSN 0-444-50606.

Citácie:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
2. [1.1] MEDINA-CORDOVA, Noe - REYES-BECERRIL, Martha - ASCENCIO, Felipe - CASTELLANOS, Thelma - CAMPA-CORDOVA, Angel I. - ANGULO, Carlos. Immunostimulant effects and potential application of beta-glucans derived from marine yeast *Debaryomyces hansenii* in goat peripheral blood leucocytes. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 599-606., Registrované v: WOS
3. [1.2] WANG, Jiajia - HU, Songqing - HUANG, Yanbo - WANG, Xizhe - LI, Lin - HOU, Yi. Physicochemical Properties and Prebiotics Effect of Yeast  $\beta$ -glucans in vitro. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2018-07-31, 18, 7, pp. 10-17., Registrované v: SCOPUS

ADCA338 KOGAN, Grigorij - JANN, B. - JANN, K. Structure of the *Escherichia coli* 0104 polysaccharide and its identity with the capsular K9 polysaccharide. In FEMS Microbiology Letters, 1992, vol. 91, p. 135-140. (1992 - Current Contents). ISSN 0378-1097.

Citácie:

1. [1.1] NAVARRO, Armando - ISIDRA CAUICH-SANCHEZ, Patricia - TREJO, Alejandro - GUTIERREZ, Alvaro - PAZ DIAZ, Sylvia - DIAZ C, Martha - CRAVIOTO, Alejandro - ESLAVA, Carlos. Characterization of Diarrheagenic Strains of *Escherichia coli* Isolated From Cattle Raised in Three Regions of Mexico. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
2. [1.1] SCHAUER, Roland - KAMERLING, Johannis P. Exploration of the Sialic Acid World. In SIALIC ACIDS, PT I: HISTORICAL BACKGROUND AND DEVELOPMENT, AND CHEMICAL SYNTHESIS. ISSN 0065-2318, 2018, vol. 75, no., pp. 1-213., Registrované v: WOS

ADCA339 KOGAN, Grigorij - SADOVSKAYA, I. - CHAIGNON, P. - CHOKR, A. - JABBOURI, S. Biofilms

of clinical strains of *Staphylococcus* that do not contain polysaccharide intercellular adhesin. In *FEMS Microbiology Letters*, 2006, vol. 255, p. 11-16. (2005: 2.040 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0378-1097.

Citácie:

1. [1.1] FREITAS, Ana I. - LOPES, Nathalie - OLIVEIRA, Fernando - BRAS, Susana - FRANCA, Angela - VASCONCELOS, Carlos - VILANOVA, Manuel - CERCA, Nuno. Comparative analysis between biofilm formation and gene expression in *Staphylococcus epidermidis* isolates. In *FUTURE MICROBIOLOGY*. ISSN 1746-0913, 2018, vol. 13, no. 4, pp. 415-427., Registrované v: WOS
2. [1.1] MANANDHAR, Sarita - SINGH, Anjana - VARMA, Ajit - PANDEY, Shanti - SHRIVASTAVA, Neeraj. Biofilm Producing Clinical *Staphylococcus aureus* Isolates Augmented Prevalence of Antibiotic Resistant Cases in Tertiary Care Hospitals of Nepal. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] PANDA, Sasmita - SINGH, Durg Vijai. Biofilm Formation by ica-Negative Ocular Isolates of *Staphylococcus haemolyticus*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
4. [1.1] RÓZALSKA, Barbara - SADOWSKA, Beata. In Vivo Resistance Mechanisms: Staphylococcal Biofilms. In *Pet-to-Man Travelling Staphylococci: A World in Progress*, 2018-03-16, pp. 237-251., Registrované v: SCOPUS
5. [1.1] THOMSEN, Isaac P. - LIU, George Y. Targeting fundamental pathways to disrupt *Staphylococcus aureus* survival: clinical implications of recent discoveries. In *JCI INSIGHT*. ISSN 2379-3708, 2018, vol. 3, no. 5, pp., Registrované v: WOS
6. [1.1] ZHENG, Yue - HE, Lei - ASLAMAH, Titus K. - OTTO, Michael. Colonization of medical devices by staphylococci. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2018, vol. 20, no. 9, pp. 3141-3153., Registrované v: WOS

ADCA340

KOGAN, Grigorij - SKORIK, Y. A. - ŽITŇANOVÁ, Ingrid - KRIŽKOVÁ, L. - ĎURAČKOVÁ, Zdenka - GOMEZ, C.A.R. - YATLUK, Y.G. - KRAJČOVIČ, J. Antioxidant and antimutagenic activity of N-(2-carboxyethyl) chitosan. In *Toxicology and Applied Pharmacology*, 2004, vol. 201, p. 303-310.

Citácie:

1. [1.1] CHANG, Shun-Hsien - WU, Chien-Hui - TSAI, Guo-Jane. Effects of chitosan molecular weight on its antioxidant and antimutagenic properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 1026-1032., Registrované v: WOS
2. [1.1] MOSKALEWICZ, Tomasz - ZYCH, Anita - KRUK, Aleksandra - KOPIA, Agnieszka - ZIMOWSKI, Slawomir - SITARZ, Maciej - CIENIEK, Lukasz. Electrophoretic deposition and microstructure development of Si3N4/polyetheretherketone coatings on titanium alloy. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, 2018, vol. 350, no., pp. 633-647., Registrované v: WOS

ADCA341

KOGAN, Grigorij - UHRÍN, D. - BRISSON, J.R. - JENNIGS, H.J. Structural basis of the *Neisseria meningitidis* immunotypes including the L4 and L7 immunotypes. In *Carbohydrate Research*, 1997, vol. 298, p. 191-199. (1997 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] RAM, Sanjay - GULATI, Sunita - LEWIS, Lisa A. - CHAKRABORTI, Srinjoy - ZHENG, Bo - DEOLIVEIRA, Rosane B. - REED, George W. - COX, Andrew D. - LI, Jianjun - ST MICHAEL, Frank - STUPAK, Jacek - SU, Xiao-Hong - SAHA, Sudeshna - LANDIG, Corinna S. - VARKI, Ajit - RICE, Peter A. A Novel Sialylation Site on *Neisseria gonorrhoeae* Lipooligosaccharide Links Heptose II Lactose Expression with Pathogenicity. In *INFECTION AND IMMUNITY*. ISSN 0019-9567, 2018, vol. 86, no. 8, pp., Registrované v: WOS

ADCA342

KOGAN, Grigorij - UHRÍN, Dušan - BRISSON, J.R. - PAOLETTI, L.C. - BLODGETT, A.E. - KASPER, D.L. - JENNINGS, H.J. Structural and immunochemical characterization of the type VIII group B *Streptococcus capsular* polysaccharide. In *Journal of Biological Chemistry*, 1996, vol. 271, p. 8786-8790. (1995: 7.385 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] ROSE, Fabrice - ROOVERS, Silke - FANO, Mathias - HARLOFF-HELLEBERG, Stine - KIRKENSGAARD, Jacob J. K. - HEJNAES, Kim - FISCHER, Per - FOGED, Camilla. Temperature-Induced Self-Assembly of the Group B *Streptococcus* (GBS) Fusion Antigen GBS-NN. In *MOLECULAR PHARMACEUTICS*. ISSN 1543-8384, 2018, vol. 15, no. 7, pp. 2584-2593., Registrované v: WOS

ADCA343

KOGAN, Grigorij - MATULOVÁ, Mária - MICHALKOVÁ, E. Extracellular polysaccharides of *Penicillium vermiculatum*. In *Zeitschrift fur Naturforschung C*, 2002, vol. 57c, p. 452-458.

Citácie:

1. [1.1] MOGHANNEM, Saad A. M. - FARAG, Mohamed M. S. - SHEHAB, Amr M. - AZAB, Mohamed S. Exopolysaccharide production from *Bacillus velezensis* KY471306 using statistical



- experimental design. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, 2018, vol. 49, no. 3, pp. 452-462., Registrované v: WOS*
- ADCA344 KOGAN, Grigorij - RAUKO, Peter - MACHOVÁ, Eva. Fungal chitin-glucan derivatives exert protective or damaging activity on plasmid DNA. In Carbohydrate Research, 2003, vol. 338, no. 9, p. 931-935. (2002: 1.631 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0008-6215.  
Citácie:  
1. [1.1] *APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS*
- ADCA345 KOGAN, Grigorij - PAVLIAK, Viliam - ŠANDULA, Jozef - MASLER, Ladislav. Novel structure of the cellular mannan of the pathogenic yeast *Candida krusei*. In Carbohydrate Research, 1988, vol. 184, p.171-182. ISSN 0008-6215.  
Citácie:  
1. [1.1] *THU NGOC YEN NGUYEN - PADUNGROS, Panuwat - WONGSRISUPPHAKUL, Panachai - SA-ARD-IAM, Noppadol - MAHANONDA, Rangsi - MATANGKASOMBUT, Oranart - CHOO, Min-Kyung - RITPAJAK, Patcharee. Cell wall mannan of Candida krusei mediates dendritic cell apoptosis and orchestrates Th17 polarization via TLR-2/MyD88-dependent pathway. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS*
- ADCA346 KOGAN, Grigorij - ŠANDULA, Jozef - KOROLENKO, T.A. - FALAMEEVA, O.V. - POTERYAEVA, O.N. - ZHANAIEVA, S.Ya. - LEVINA, O.A. - FILATOVA, T.G. - KALEDIN, V.I.. Increased efficiency of Lewis lung carcinoma chemotherapy with a macrophage stimulator - yeast carboxymethyl glucan. In International Immunopharmacology, 2002, vol. 2, p. 775-781. ISSN 1567-5769.  
Citácie:  
1. [1.1] *GU, Zili - SHAIKH, Abdul Sami - LIN, Guimei. Novel 'Stereoscopic Response'; Strategy Can Be Used in Combination Therapy. In CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS. ISSN 0743-4863, 2018, vol. 35, no. 4, pp. 369-390., Registrované v: WOS*  
2. [1.1] *MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from Rhodotorula mucilaginosa CICC 33013. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS*  
3. [1.2] *MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS*
- ADCA347 KOGAN, Grigorij - PAVLIAK, V. - MASLER, Ladislav. Structural studies of mannans from the cell walls of the pathogenic yeasts *Candida albicans* serotype A and B, and *Candida parapsilosis*. In Carbohydrate Research, 1988, vol. 172, p. 243-253. ISSN 0008-6215.  
Citácie:  
1. [1.1] *ISHIDA, Yoko - OHTA, Kouji - NARUSE, Takako - KATO, Hiroki - FUKUI, Akiko - SHIGEISHI, Hideo - NISHI, Hiromi - TOBIUME, Kei - TAKECHI, Masaaki. Candida albicans beta-Glucan-Containing Particles Increase HO-1 Expression in Oral Keratinocytes via a Reactive Oxygen Species/p38 Mitogen-Activated Protein Kinase/Nrf2 Pathway. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2018, vol. 86, no. 4, pp., Registrované v: WOS*  
2. [1.2] *GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS*
- ADCA348 KOGAN, Grigorij - STAŠKO, Andrej - BAUEROVÁ, Katarína - POLOVKA, Martin - ŠOLTÉS, Ladislav - BREZOVÁ, Vlasta - NAVAROVÁ, Jana - MIHALOVÁ, Danica. Antioxidant properties of yeast (1→3)-β-D-glucan studied by electron paramagnetic resonance spectroscopy and its activity in the adjuvant arthritis. In Carbohydrate Polymers, 2005, vol. 61, no. 1, p. 18-28. (2004: 1.710 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0144-8617.  
Citácie:  
1. [1.1] *BZDUCHA-WRÓBEL, A. - BŁAŻEJAK, S. - KIELISZEK, M. - POBIEGA, K. - FALANA, K. - JANOWICZ, M. Modification of the cell wall structure of *Saccharomyces cerevisiae* strains during cultivation on waste potato juice water and glycerol towards biosynthesis of functional polysaccharides. In JOURNAL OF BIOTECHNOLOGY. ISSN 01681656, 2018, vol. 281, p. 1-10., Registrované v: WOS*  
2. [1.1] *LEAL, D. - MANSILLA, A. - MATSUHIRO, B. - MONCADA-BASUALTO, M. - LAPIER, M. - MAYA, J.D. - OLEA-AZAR, C. - DE BORGGRAEVE, W.M. Chemical structure and biological properties of sulfated fucan from the sequential extraction of subAntarctic *Lessonia* sp (*Phaeophyceae*). In CARBOHYDRATE POLYMERS. ISSN 01448617, 2018, vol. 199, p. 304-313.,*

Registrované v: WOS

3. [1.1] LIU, F. - WANG, Z. - LIU, J. - LI, W. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, p. 572-579., Registrované v: WOS
4. [1.1] LIU, J.L. - XUE, Q. - LIU, C.G. - BAI, F.W. - WADA, S. - WANG, J.Y. Chemiluminescence imaging of UVA induced reactive oxygen species in mouse skin using L-012 as a probe. In *FREE RADICAL RESEARCH*. ISSN 1071-5762, 2018, vol. 52, no. 11-12, SI, p. 1424-1431., Registrované v: WOS
5. [1.1] PUNETHA, M. - ROY, A.K. - AJITHAKUMAR, H.M. - PARA, I.A. - GUPTA, D. - SINGH, M. - BHARATI, J. Immunomodulatory effects of probiotics and prilled fat supplementation on immune genes expression and lymphocyte proliferation of transition stage Karan Fries cows. In *VETERINARY WORLD*. ISSN 0972-8988, 2018, vol. 11, no. 2, p. 209-214., Registrované v: WOS
6. [1.1] SUN, Y. - LIU, J. - YE, G. - GAN, F. - HAMID, M. - LIAO, S. - HUANG, K. Protective effects of zymosan on heat stress-induced immunosuppression and apoptosis in dairy cows and peripheral blood mononuclear cells. In *CELL STRESS AND CHAPERONES*. ISSN 1355-8145, 2018, vol. 23, no. 5, p. 1069-1078., Registrované v: WOS
7. [1.1] XIONG, J.L. - WANG, Y.M. - ZHOU, H.L. - LIU, J.X. Effects of dietary adsorbent on milk aflatoxin M-1 content and the health of lactating dairy cows exposed to long-term aflatoxin B-1 challenge. In *JOURNAL OF DAIRY SCIENCE*. ISSN 0022-0302, 2018, vol. 101, no. 10, p. 8944-8953., Registrované v: WOS

ADCA349 KOGAN, Grigorij - PAJTINKA, Martin - BABINCOVÁ, M. - MIADOKOVÁ, Eva - RAUKO, Peter - SLAMENOVÁ, Darina - KOROLENKO, T.A. Yeast cell wall polysaccharides as antioxidants and antimutagens: Can they fight cancer? In *Neoplasma*, 2008, vol. 55, p. 387-393. (2007: 1.208 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0028-2685.

Citácie:

1. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *bouardii* Cell Wall Components. In *NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL*. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS
2. [1.1] GALINARI, Eder - ALMEIDA-LIMA, Jailma - MACEDO, Gorete Ribeiro - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Antioxidant, antiproliferative, and immunostimulatory effects of cell wall alpha-D-mannan fractions from *Kluyveromyces marxianus*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 837-846., Registrované v: WOS
3. [1.1] HAN, Mei - XU, Jian-Zhong - LIU, Zhen-Min - QIAN, He - ZHANG, Wei-Guo. Co-production of microbial oil and exopolysaccharide by the oleaginous yeast *Sporidiobolus pararoseus* grown in fed-batch culture. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 6, pp. 3348-3356., Registrované v: WOS
4. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS
5. [1.1] SANGURI, Sweta - GUPTA, Damodar. Mannan oligosaccharide requires functional ETC and TLR for biological radiation protection to normal cells. In *BMC CELL BIOLOGY*. ISSN 1471-2121, 2018, vol. 19, no., pp., Registrované v: WOS
6. [1.1] TOMASZEWSKA, E. - DOBROWOLSKI, P. - MUSZYNSKI, S. - KWIECIEN, M. - KASPEREK, K. - KNAGA, S. - TOMCZYK-WARUNEK, A. - KOWALIK, S. - JEZEWSKA-WITKOWSKA, G. - GRELA, E. R. Intestinal mucosa develops in a sex-dependent manner in Japanese quail (*Coturnix japonica*) fed *Saccharomyces cerevisiae*. In *BRITISH POULTRY SCIENCE*. ISSN 0007-1668, 2018, vol. 59, no. 6, pp. 689-697., Registrované v: WOS

ADCA350 KOGAN, Grigorij - KOCHER, A. Role of yeast cell wall polysaccharides in pig nutrition and health protection. In *Livestock Science*, 2007, vol. 109, p. 161-165. ISSN 1871-1413.

Citácie:

1. [1.1] BRUS, M. - GRADISNIK, L. - TRAPCAR, M. - SKORJANC, D. - FRANGEZ, R. Beneficial effects of water-soluble chestnut (*Castanea sativa* Mill.) tannin extract on chicken small intestinal epithelial cell culture. In *POULTRY SCIENCE*. ISSN 0032-5791, 2018, vol. 97, no. 4, pp. 1271-1282., Registrované v: WOS
2. [1.1] CZECH, Anna - SMOLCZYK, Aleksandra - OGNIK, Katarzyna - WLAZLO, Lukasz - NOWAKOWICZ-DEBEK, Bozena - KIESZ, Martyna. Effect of dietary supplementation with *Yarrowia lipolytica* or *Saccharomyces cerevisiae* yeast and probiotic additives on haematological



- parameters and the gut microbiota in piglets. In *RESEARCH IN VETERINARY SCIENCE*. ISSN 0034-5288, 2018, vol. 119, no., pp. 221-227., Registrované v: WOS
3. [1.1] DOTSENKO, Gleb - MEYER, Anne S. - CANIBE, Nuria - THYGESEN, Anders - NIELSEN, Michael Krogsgaard - LANGE, Lene. Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota. In *BIOMASS CONVERSION AND BIOREFINERY*. ISSN 2190-6815, 2018, vol. 8, no. 3, pp. 497-507., Registrované v: WOS
4. [1.1] FOMENKY, Bridget E. - CHIQUETTE, Johanne - LESSARD, Martin - BISSONNETTE, Nathalie - TALBOT, Guylaine - CHOUINARD, Yvan P. - IBEAGHA-AWEMU, Eveline M. *Saccharomyces cerevisiae* var. *boulardii* CNCM I-1079 and *Lactobacillus acidophilus* BT1386 influence innate immune response and serum levels of acute-phase proteins during weaning in Holstein calves. In *CANADIAN JOURNAL OF ANIMAL SCIENCE*. ISSN 0008-3984, 2018, vol. 98, no. 3, pp. 576-588., Registrované v: WOS
5. [1.1] HASAN, Shah - JUNNIKKALA, Sami - PELTONIEMI, Olli - PAULIN, Lars - LYYSKI, Annina - VUORENMAA, Juhani - OLIVIERO, Claudio. Dietary supplementation with yeast hydrolysate in pregnancy influences colostrum yield and gut microbiota of sows and piglets after birth. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 5, pp., Registrované v: WOS
6. [1.1] KEIMER, B. - KROEGER, S. - ROEHE, I. - PIEPER, R. - SIMON, A. - ZENTEK, J. Influence of differently processed yeast (< i>ITKluyveromyces fragilis</i> &IT) on feed intake and gut physiology in weaned pigs. In *JOURNAL OF ANIMAL SCIENCE*. ISSN 0021-8812, 2018, vol. 96, no. 1, pp. 194-205., Registrované v: WOS
7. [1.1] KEIMER, Birgit - PIEPER, Robert - SIMON, Annette - ZENTEK, Juergen. Effect of time and dietary supplementation with processed yeasts (< i>Kluyveromyces fragilis</i>) on immunological parameters in weaned piglets. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2018, vol. 245, no., pp. 136-146., Registrované v: WOS
8. [1.1] LIU, Ning - WANG, Jinquan - LIU, Zhaoyang - WANG, Yongchao - WANG, Jianping. Effect of supplemental yeast cell walls on growth performance, gut mucosal glutathione pathway, proteolytic enzymes and transporters in growing broiler chickens. In *JOURNAL OF ANIMAL SCIENCE*. ISSN 0021-8812, 2018, vol. 96, no. 4, pp. 1330-1337., Registrované v: WOS
9. [1.1] LIU, Yanhong - ESPINOSA, Charmaine D. - ABELILLA, Jerubella J. - CASAS, Gloria A. - LAGOS, L. Vanessa - LEE, Su A. - KWON, Woong B. - MATHAI, John K. - NAVARRO, Diego M. D. L. - JAWORSKI, Neil W. - STEIN, Hans H. Non-antibiotic feed additives in diets for pigs: A review. In *ANIMAL NUTRITION*. ISSN 2405-6383, 2018, vol. 4, no. 2, pp. 113-125., Registrované v: WOS
10. [1.1] NASIRI, K. - SADEGHI, A. A. - NIKKHAH, A. - CHAMANI, M. Effects of live and hydrolyzed yeast supplementation during transition period on blood IgG content and INF-gamma gene expression in dairy cows. In *JOURNAL OF LIVESTOCK SCIENCE*, 2018, vol. 9, no., pp. 65-69., Registrované v: WOS
11. [1.1] PENG, W-X. - MARCHAL, J. L. M. - VAN DER POEL, A. F. B. Strategies to prevent and reduce mycotoxins for compound feed manufacturing. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2018, vol. 237, no., pp. 129-153., Registrované v: WOS
12. [1.1] PEREZ-QUIRCE, Sandra - CABALLERO, Pedro A. - VELA, Antonio J. - VILLANUEVA, Marina - RONDA, Felicidad. Impact of yeast and fungi (1> 3)(1> 6)-beta-glucan concentrates on viscoelastic behavior and bread making performance of gluten-free rice-based doughs. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 79, no., pp. 382-390., Registrované v: WOS
13. [1.1] SHURSON, G. C. Yeast and yeast derivatives in feed additives and ingredients: Sources, characteristics, animal responses, and quantification methods. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2018, vol. 235, no., pp. 60-76., Registrované v: WOS
14. [1.1] VALPOTIC, Hrvoje - BARIC-RAFAJ, Renata - ZAJA, Ivona Zura - VINCE, Silvijo - SAMARDZIJA, Marko - TURK, Romana - DURICIC, Drazen - DOBRANIC, Tomislav - SOBIECH, Przemyslaw - CVETNIC, Luka - VALPOTIC, Ivica. MODULATION OF SYSTEMIC INNATE AND ADAPTIVE IMMUNE PARAMETERS IN WEANED PIGS BY SINGLE ORAL APPLICATION OF IMMUNOBOTICS. In *SLOVENIAN VETERINARY RESEARCH*. ISSN 1580-4003, 2018, vol. 55, no. 1, pp. 43-53., Registrované v: WOS
15. [1.1] XING, Yan - CHEN, Chaonan - SUN, Wenlong - ZHANG, Bowei - SANG, Yuanbin - XIU, Zhilong - DONG, Yuesheng. An environment-friendly approach to isolate and purify glucan from spent cells of recombinant *Pichia pastoris* and the bioactivity characterization of the purified glucan. In *ENGINEERING IN LIFE SCIENCES*. ISSN 1618-0240, 2018, vol. 18, no. 4, pp. 227-235., Registrované v: WOS
16. [3.2] Bretas, Anilce de Araújo. Inclusión of mycotoxin adsorbents for piglets. In: *CES Medicina Veterinaria y Zootecnia*, 2018, volume: 13, issue: 1, pages: 80-95, ISSN 1900-9607., Registrované v: SciELO Citation Index

Carbohydrate Polymers, 1982, vol. 2, p. 273-275. ISSN 0144-8617.

Citácie:

1. [1.2] CAMPOS-VEGA, Rocio - NIETO-FIGUEROA, Karen H. - OOMAH, B. Dave. *Cocoa (Theobroma cacao L.) pod husk: Renewable source of bioactive compounds. In Trends in Food Science and Technology. ISSN 09242244, 2018-11-01, 81, pp. 172-184., Registrované v: SCOPUS*
2. [1.2] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. *Structure-related gelling of pectins and linking with other natural compounds: A review. In Polymers, 2018-07-11, 10, 7, pp., Registrované v: SCOPUS*

ADCA352

KOHN, Rudolf - LARSEN, B. Preparation of water-soluble polyuronic acids and their calcium salts and the determination of calcium activity in relation to the degree of polymerization. In *Acta Chemica Scandinavica*, 1972, vol. 26, p. 2455-2468.

Citácie:

1. [1.1] BENSELFELT, Tobias - ENGSTROM, Joakim - WAGBERG, Lars. *Supramolecular double networks of cellulose nanofibrils and algal polysaccharides with excellent wet mechanical properties. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 11, pp. 2558-2570., Registrované v: WOS*
2. [1.1] STERNER, Martin - EDLUND, Ulrica. *High-Performance Filaments from Fractionated Alginate by Polyvalent Cross-Linking: A Theoretical and Practical Approach. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 8, pp. 3311-3330., Registrované v: WOS*

ADCA353

KOHN, Rudolf. Binding of divalent cations to oligomeric fragments of pectin. In *Carbohydrate Research*, 1987, vol. 160, p. 343-353. ISSN 0008-6215.

Citácie:

1. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. *Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS*
2. [1.1] CELUS, Miete - SALVIA-TRUJILLO, Laura - KYOMUGASHO, Clare - MAES, Ine - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. *Structurally modified pectin for targeted lipid antioxidant capacity in linseed/sunflower oil-in-water emulsions. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 241, no., pp. 86-96., Registrované v: WOS*
3. [1.1] GROULT, Sophie - BUDTOVA, Tatiana. *Tuning structure and properties of pectin aerogels. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2018, vol. 108, no., pp. 250-261., Registrované v: WOS*
4. [1.1] JOSHI, Nidhi - RAWAT, Kamla - BOHIDAR, H. B. *pH and ionic strength induced complex coacervation of Pectin and Gelatin A. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 74, no., pp. 132-138., Registrované v: WOS*
5. [1.1] KAUSHIK, Priyanka - RAWAT, Kamla - ASWAL, V. K. - KOHLBRECHER, J. - BOHIDAR, H. B. *Mixing ratio dependent complex coacervation versus bicontinuous gelation of pectin with in situ formed zein nanoparticles. In SOFT MATTER. ISSN 1744-683X, 2018, vol. 14, no. 31, pp. 6463-6475., Registrované v: WOS*
6. [1.1] MATIN, H. R. Hemati - SHARIATMADARI, F. - TORSHIZI, M. A. Karimi - CHIBA, L. I. *Effect of dietary fibre sources on in vitro mineral binding capacity and growth performance, mineral digestibility, tibia and intestinal characteristics in broiler chickens. In EUROPEAN POULTRY SCIENCE. ISSN 1612-9199, 2018, vol. 82, no., pp., Registrované v: WOS*
7. [1.2] SURABHI, Ajit K. - SENAN, Chandra - AZHAR, Masaud. *Effect of temperature and calcium ion concentration on gelation and rheological properties of low methylated pectin. In Asian Journal of Chemistry. ISSN 09707077, 2018-01-01, 30, 7, pp. 1671-1674., Registrované v: SCOPUS*

ADCA354

KOHN, Rudolf. Ion binding on polyuronates - alginate and pectin. In *Pure and Applied Chemistry*, 1975, vol. 42, p. 371-397. ISSN 0033-4545.

Citácie:

1. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. *Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS*
2. [1.1] SENTURK PARREIDT, Tugce - MUELLER, Kajetan - SCHMID, Markus. *Alginate-Based Edible Films and Coatings for Food Packaging Applications. In FOODS. ISSN 2304-8158, 2018, vol. 7, no. 10, pp., Registrované v: WOS*
3. [1.1] SILVESTER, Ewen - KLEIN, Annaleise R. - WHITWORTH, Kerry L. - PUSKAR, Ljiljana - TOBIN, Mark J. *Synchrotron infrared microspectroscopy reveals the response of Sphagnum cell*

- wall material to its aqueous chemical environment. In ENVIRONMENTAL CHEMISTRY. ISSN 1448-2517, 2018, vol. 15, no. 8, pp. 513-521., Registrované v: WOS*
4. [1.1] STERNER, Martin - EDLUND, Ulrica. High-Performance Filaments from Fractionated Alginate by Polyvalent Cross-Linking: A Theoretical and Practical Approach. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 8, pp. 3311-3330., Registrované v: WOS
- ADCA355 KOHN, Rudolf - FURDA, I. - HAUG, A. - SMIDSROD, O. Binding of calcium and potassium ions to some polyuronides and monouronates. In Acta Chemica Scandinavica, 1968, vol. 22, p. 3098-3102. Citácie:
1. [1.1] MAZUR, Luciana P. - CECHINEL, Maria A. P. - DE SOUZA, Selene M. A. Guelli U. - BOAVENTURA, Rui A. R. - VILAR, Vitor J. P. Brown marine macroalgae as natural cation exchangers for toxic metal removal from industrial wastewaters: A review. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2018, vol. 223, no., pp. 215-253., Registrované v: WOS
2. [1.1] VRIESMANN, Lucia Cristina - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cacao pod husks as a source of low-methoxyl, highly acetylated pectins able to gel in acidic media. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 101, no., pp. 146-152., Registrované v: WOS
- ADCA356 KOLAROV, J. - KOLAROVA, Nadežda - NELSON, N. A 3rd ADP/ATP translocator gene in yeast. In Journal of Biological Chemistry, 1990, vol. 265, p. 12711-12716. ISSN 0021-9258. Citácie:
1. [1.1] CHIPOT, Christophe - DEHEZ, Francois - SCHNELL, Jason R. - ZITZMANN, Nicole - PEBAY-PEYROULA, Eva - CATOIRE, Laurent J. - MIROUX, Bruno - KUNJI, Edmund R. S. - VEGLIA, Gianluigi - CROSS, Timothy A. - SCHANDA, Paul. Perturbations of Native Membrane Protein Structure in Alkyl Phosphocholine Detergents: A Critical Assessment of NMR and Biophysical Studies. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 7, pp. 3559-3607., Registrované v: WOS
2. [1.1] DA FONSECA-PEREIRA, Paula - NERI-SILVA, Roberto - CAVALCANTI, Joao Henrique F. - BRITO, Danielle S. - WEBER, Andreas P. M. - ARAUJO, Wagner L. - NUNES-NESI, Adriano. Data-Mining Bioinformatics: Connecting Adenylate Transport and Metabolic Responses to Stress. In TRENDS IN PLANT SCIENCE. ISSN 1360-1385, 2018, vol. 23, no. 11, pp. 961-974., Registrované v: WOS
- ADCA357 KOLLÁROVÁ, Karin - HENSELOVÁ, M. - LIŠKOVÁ, Desana. Effect of auxins and plant oligosaccharides on root formation and elongation growth of mung bean hypocotyls. In Plant Growth Regulation, 2005, vol. 46, p. 1-9. ISSN 0167-6903. Citácie:
1. [1.1] SUMALAPAO, Derick Erl P. - TUPPIL, Caireen G. - URTULA, Anton Angelo C. - VALDESTAMON, Duane M. - VILLANUEVA, Leoncia Marie D. - LEDESMA, Nadine Adellia A. TOLERANCE OF MUNG BEAN (*Vigna radiata* (L.) Wilczek) TO LACTIC ACID, A POTENTIAL HERBICIDE: GROWTH AND MORPHOLOGY. In JOURNAL OF ANIMAL AND PLANT SCIENCES. ISSN 1018-7081, 2018, vol. 28, no. 1, pp. 138-145., Registrované v: WOS
2. [1.2] LIANG, Xiaoting - LIN, Yibin - SONG, Yuanyuan - WANG, Ruilong - ZENG, Rensen - CHEN, Dongmei. Autotoxicity of *Celosia argentea* and its allelopathic effects on other plants. In Journal of South China Agricultural University. ISSN 1001411X, 2018-09-01, 39, 5, pp. 32-38., Registrované v: SCOPUS
- ADCA358 KOLLÁROVÁ, Karin - VIVODOVÁ, Zuzana, Vatehová - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana. Cadmium impact, accumulation and detection in poplar callus cells. In Environmental Science and Pollution Research, 2017, vol. 24, p. 15340-15346. (2016: 2.741 - IF, Q2 - JCR, 0.891 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0944-1344. Citácie:
1. [1.1] JOHNSON, Clayton R. - SHROUT, Joshua D. - FEIN, Jeremy B. Visualization and quantification of Cd sorption to bacteria using confocal laser scanning microscopy and Cd-specific fluorescent probes. In CHEMICAL GEOLOGY. ISSN 0009-2541, 2018, vol. 483, no., pp. 21-30., Registrované v: WOS
2. [1.1] TOLEDO SALAS, Anali - HERNANDEZ PIMENTEL, Maria Victoria - RODRIGUEZ TOVAR, Aida Veronica - GUERRERO ZUNIGA, Leonor Angelica - RODRIGUEZ DORANTES, Angelica. EVALUATION OF THE EFFECT OF CADMIUM ON THE ACTIVITY OF PHENOLOXIDASE OF CELLY TISSUE OF *Epithelantha micromeris* INOCULATED WITH RIZOBACTERIA. In REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL. ISSN 0188-4999, 2018, vol. 34, no. 4, pp. 725-735., Registrované v: WOS
- ADCA359 KÓŇA, Juraj - FABIAN, Walter. Hybrid QM/MM calculations on the first redox step of the catalytic cycle of bovine glutathione peroxidase GPX1. In Journal of Chemical Theory and Computation, 2011, vol. 7, p. 2610-2616. (2010: 5.138 - IF, karentované - CCC). (2011 - Current Contents). ISSN



1549-9618.

Citácie:

- [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad - HOUSAINDOKHT, Mohammad Reza. Computational Kinetic Modeling of the Catalytic Cycle of Glutathione Peroxidase Nanomimic: Effect of Nucleophilicity of Thiols on the Catalytic Activity. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2018, vol. 122, no. 1, pp. 364-374., Registrované v: WOS
- [1.1] KHEIRABADI, Ramesh - IZADYAR, Mohammad. Antioxidant activity of selenenamide-based mimic as a function of the aromatic thiols nucleophilicity, a DFT-SAPE model. In COMPUTATIONAL BIOLOGY AND CHEMISTRY. ISSN 1476-9271, 2018, vol. 75, no., pp. 213-221., Registrované v: WOS
- [1.1] REZAEIAN, Mojtaba - IZADYAR, Mohammad - POUR, Ali Nakhaei. Carbon Dioxide Absorption by the Imidazolium-Amino Acid Ionic Liquids, Kinetics, and Mechanism Approach. In JOURNAL OF PHYSICAL CHEMISTRY A. ISSN 1089-5639, 2018, vol. 122, no. 26, pp. 5721-5729., Registrované v: WOS

ADCA360

KOŮŠ, Miroslav - MOSHER, H.S.  $\alpha$ -Amino- $\alpha$ -trifluoromethyl-phenylacetone nitrile: A potential reagent for  $^{19}\text{F}$  NMR determination of enantiomeric purity of acids. In Tetrahedron, 1993, vol. 49, p. 1541-1546. ISSN 0040-4020.

Citácie:

- [1.1] SAWA, Masanao - MIYAZAKI, Shotaro - YONESAKI, Ryohei - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Catalytic Enantioselective Decarboxylative Mannich-Type Reaction of N-Unprotected Isatin-Derived Ketimines. In ORGANIC LETTERS. ISSN 1523-7060, 2018, vol. 20, no. 17, pp. 5393-5397., Registrované v: WOS
- [1.1] YONESAKI, Ryohei - KONDO, Yuta - AKKAD, Walaa - SAWA, Masanao - MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. 3-Mono-Substituted BINOL Phosphoric Acids as Effective Organocatalysts in Direct Enantioselective Friedel-Crafts-Type Alkylation of N-Unprotected  $\alpha$ -Ketiminioester. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 57, pp. 15211-15214., Registrované v: WOS

ADCA361

KORCOVÁ, Jana, Vráblová - MACHOVÁ, Eva - FILIP, Jaroslav - BYSTRICKÝ, Slavomír. Biophysical properties of carboxymethyl derivatives of mannan and dextran. In Carbohydrate Polymers, 2015, vol. 134, p. 6-11. (2014: 4.074 - IF, Q1 - JCR, 1.584 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0144-8617.

Citácie:

- [1.1] LIU, Yang - HUANG, Gangliang. The derivatization and antioxidant activities of yeast mannan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 755-761., Registrované v: WOS
- [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

ADCA362

KORF, Richard P. - LIZOŇ, Pavel. Validation of Nannfeldt's ordinal name Helotiales. In Mycotaxon. - Ithaca : Mycotaxon, 2000, vol. 75, p. 501-502. (2000 - Current Contents). ISSN 0093-4666.

Citácie:

- [1.1] QUIJADA, L. - JOHNSTON, P.R. - COOPER, J.A. - PFISTER, D.H. Overview of Phacidiales, including Aotearomyces gen. nov. on Nothofagus. In IMA FUNGUS. ISSN 2210-6340, DEC 2018, vol. 9, no. 2, p. 371-382., Registrované v: WOS

ADCA363

KOROLENKO, Tatyana A. - JOHNSTON, Thomas P. - MACHOVÁ, Eva\*\* - BGATOVA, Nataliya P. - LYKOV, Alexander P. - GONCHAROVA, Natalya V. - NEŠČÁKOVÁ, Zuzana - SHINTYAPINA, Alexandra B. - MAIBORODIN, Igor V. - KARMATSKIKH, O.L. Hypolipidemic effect of mannans from C. albicans serotypes A and B in acute hyperlipidemia in mice. In International Journal of Biological Macromolecules, 2018, vol. 107, p. 2385-2394. (2017: 3.909 - IF, Q1 - JCR, 0.917 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

Citácie:

- [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS
- [1.2] YANG, Xia - FENG, Ying Shu - TONG, Shan Shan - YU, Jiang Nan - XU, Xi Ming. Study on mechanism and structure-activity relationship of hypolipidemic polysaccharides: a review. In Zhongguo Zhongyao Zazhi. ISSN 10015302, 2018-10-01, 43, 20, pp. 4011-4018., Registrované v: SCOPUS

ADCA364

KOSÍK, Ondřej - AUBURN, Richard P. - RUSSEL, Steven - STRATILOVÁ, Eva - GARAJOVÁ, Soňa - HRMOVÁ, Mária - FARKAŠ, Vladimír. Polysaccharide microarrays for high-throughput

screening of transglycosylase activities in plant extracts. In *Glycoconjugate Journal*, 2010, vol. 27, p. 79-87. (2009: 2.500 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0282-0080.

Citácie:

1. [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. *Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls*. In *CHEMBIOCHEM*. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS
2. [1.1] WEN, Liuqing - EDMUNDS, Garrett - GIBBONS, Christopher - ZHANG, Jiabin - GADI, Madhusudhan Reddy - ZHU, Hailiang - FANG, Junqiang - LIU, Xianwei - KONG, Yun - WANG, Peng George. *Toward Automated Enzymatic Synthesis of Oligosaccharides*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8151-8187., Registrované v: WOS
3. [1.2] RIBEIRO, Diana O. - PINHEIRO, Benedita A. - CARVALHO, Ana Luísa - PALMA, Angelina S. *Targeting protein-carbohydrate interactions in plant cell-wall biodegradation: The power of carbohydrate microarrays*. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 159-176., Registrované v: SCOPUS

ADCA365 KOSÍK, Ondřej - FARKAŠ, Vladimír. One-pot fluorescent labeling of xyloglucan oligosaccharides with sulforhodamine. In *Analytical Biochemistry*, 2008, vol.375, p. b232-236. (2007: 3.002 - IF, karentované - CCC). (2008 - Current Contents, WOS, SCOPUS). ISSN 0003-2697.

Citácie:

1. [1.1] AKHTER, Kazi Farida - MUMIN, Md Abdul - LUI, Edmund M. K. - CHARPENTIER, Paul A. *Fabrication of fluorescent labeled ginseng polysaccharide nanoparticles for bioimaging and their immunomodulatory activity on macrophage cell lines*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 254-262., Registrované v: WOS
2. [1.1] HERBURGER, Klaus - RYAN, Louise M. - POPPER, Zoe A. - HOLZINGER, Andreas. *Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology*. In *JOURNAL OF CELL SCIENCE*. ISSN 0021-9533, 2018, vol. 131, no. 2, pp., Registrované v: WOS

ADCA366 KOSSACZKA, Zuzana - BYSTRICKÝ, Slavomír - BRYLA, D.A. - SHILOACH, J. - ROBBINS, J.B. - SZU, S.C. Synthesis and immunological properties of Vi and Di-O-acetyl pectin protein conjugates with adipic acid dihydrazide as the linker. In *Infection and Immunity*, 1997, vol. 65, p. 2088-2093. (1997 - Current Contents). ISSN 0019-9567.

Citácie:

1. [1.1] AN, So Jung - SCARIA, Puthupparampil - CHEN, Beth - BARNAFO, Emma - MURATOVA, Olga - ANDERSON, Charles - LAMBERT, Lynn - CHAE, Myung Hwa - YANG, Jae Seung - DUFFY, Patrick E. *Development of a bivalent conjugate vaccine candidate against malaria transmission and typhoid fever*. In *VACCINE*. ISSN 0264-410X, 2018, vol. 36, no. 21, pp. 2978-2984., Registrované v: WOS
2. [1.1] MISHRA, Ravi P. N. - YADAV, Ravi S. P. - JONES, Christopher - NOCADELLO, Salvatore - MINASOV, George - SHUVALOVA, Ludmilla A. - ANDERSON, Wayne F. - GOEL, Akshay. *Structural and immunological characterization of E. coli derived recombinant CRM197 protein used as carrier in conjugate vaccines*. In *BIOSCIENCE REPORTS*. ISSN 0144-8463, 2018, vol. 38, no., pp., Registrované v: WOS
3. [1.1] TRITAMA, Erman - RIANI, Catur - RUDIANSYAH, Indra - HIDAYAT, Arip - KHARISNAENI, Siti Azizah - RETNONINGRUM, Debbie Sofie. *Evaluation of alum-based adjuvant on the immunogenicity of salmonella enterica serovar typhi conjugates vaccines*. In *HUMAN VACCINES & IMMUNOTHERAPEUTICS*. ISSN 2164-5515, 2018, vol. 14, no. 6, pp. 1524-1529., Registrované v: WOS
4. [1.2] MULARD, Laurence A. *Bacterial polysaccharides as major surface antigens: Interest in O-acetyl substitutions*. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 71-103., Registrované v: SCOPUS

ADCA367 KOŠÍK, M. - HERAIN, J. - DOMANSKÝ, R. Pyrolysis of beech wood and its components at low temperatures. IV. Basic data of the formation of gaseous products. In *Holzforschung und Holzverwertung*, 1968, vol. 20., p. 56-62.

Citácie:

1. [1.1] KUBOVSKY, Ivan - KACIK, Frantisek - VEL'KOVA, Veronika. *The Effects of CO2 Laser Irradiation on Color and Major Chemical Component Changes in Hardwoods*. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 2515-2529., Registrované v: WOS
2. [1.1] WANG, Zhe - SUN, Bailing - LIU, Junliang. *INVESTIGATION OF VOLATILE PRODUCTS RELEASED DURING VACUUM HEAT TREATMENT OF LARCH WOOD*. In *WOOD RESEARCH*. ISSN 1336-4561, 2017, vol. 62, no. 5, pp. 773-782., Registrované v: WOS

ADCA368 KOŠÍK, M. - REISER, V. - DOMANSKÝ, R. Pyrolysis of beech wood at low temperatures. VIII. Conditions for the formation of furfural in the course of pyrolysis. In *Holzforschung und*



Holzverwertung, 1969, vol. 21, p. 38-40.

Citácie:

1. [1.1] CHEN, Fuxin - HOU, Binbin - CHEN, Suying - ZHANG, Huikuan - GONG, Pin - ZHOU, Anning. Biochemicals distribution and the collaborative pyrolysis study from three main components of *Helianthus annuus* stems based on PY-GC/MS. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 114, no., pp. 960-967., Registrované v: WOS

ADCA369 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena - SASINKOVÁ, Vlasta - KAČÍK, F. The use of various yeast strains for removal of pine wood extractive constituents. In Wood Research, 2006, vol. 51, p. 47-53. ISSN 1336-4561.

Citácie:

1. [1.1] BARTON-PUDLIK, Joanna - CZAJA, Krystyna - LIPOK, Jacek. Resistance of Conifer Needle Polyolefin Composites (CNPCs) Against Biodecomposition Caused by Fungi. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 1179-1193., Registrované v: WOS

ADCA370 KOŠÍKOVÁ, Božena - LÁBAJ, J. - GREGOROVÁ, Adriana - SLAMENŇOVÁ, D. Lignin antioxidants for preventing oxidation damage of DNA and for stabilizing polymeric components. In Holzforschung, 2006, vol. 60, pp. 166-170. ISSN 0018-3830.

Citácie:

1. [1.1] AMINZADEH, Selda - LAUBERTS, Maris - DOBELE, Galina - PONOMARENKO, Jevgenija - MATTSSON, Tuve - LINDSTROM, Mikael E. - SEVASTYANOVA, Olena. Membrane filtration of kraft lignin: Structural characteristics and antioxidant activity of the low-molecular-weight fraction. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 112, no., pp. 200-209., Registrované v: WOS

2. [1.1] MUSILOVA, Lenka - MRACEK, Ales - KOVALCIK, Adriana - SMOLKA, Petr - MINARIK, Antonin - HUMPOLICEK, Petr - VICHA, Robert - PONIZIL, Petr. Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 394-403., Registrované v: WOS

3. [1.1] SPIRIDON, Iuliana. BIOLOGICAL AND PHARMACEUTICAL APPLICATIONS OF LIGNIN AND ITS DERIVATIVES: A MINI-REVIEW. In CELLULOSE CHEMISTRY AND TECHNOLOGY. ISSN 0576-9787, 2018, vol. 52, no. 7-8, pp. 543-550., Registrované v: WOS

ADCA371 KOŠÍKOVÁ, Božena - MIKLEŠOVÁ, K - DEMIANOVÁ, V. Characteristics of free radicals in composite lignin polypropylene films studied by the EPR method. In European Polymer Journal, 1993, vol. 29, p. 1495-1497. (1992: 0.834 - IF, karentované - CCC). (1993 - Current Contents). ISSN 0014-3057.

Citácie:

1. [1.1] SHIKINAKA, Kazuhiro - NAKAMURA, Masaya - NAVARRO, Ronald R. - OTSUKAR, Yuichiro. Plant-Based Antioxidant Nanoparticles without Biological Toxicity. In CHEMISTRYOPEN. ISSN 2191-1363, 2018, vol. 7, no. 9, pp. 709-712., Registrované v: WOS

ADCA372 KOŠÍKOVÁ, Božena - LÁBAJ, Juraj. Lignin-stimulated protection of polypropylene films and DNA in cells of mice against oxidation damage. In BioResources, 2009, vol. 4, no. 2, p. 805-815. (2009 - Current Contents). ISSN 1930-2126.

Citácie:

1. [1.1] PICCININO, Davide - CAPECCHI, Eliana - BOTTA, Lorenzo - BIZZARRI, Bruno Mattia - BOLLELLA, Paolo - ANTIOCHIA, Riccarda - SALADINO, Raffaele. Layer-by-Layer Preparation of Microcapsules and Nanocapsules of Mixed Polyphenols with High Antioxidant and UV-Shielding Properties. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 9, pp. 3883-3893., Registrované v: WOS

2. [1.1] WITZLER, Markus - ALZAGAMEEM, Abba - BERGS, Michel - EL KHALDI-HANSEN, Basma - KLEIN, Stephanie E. - HIELSCHER, Dorothee - KAMM, Birgit - KREYENSCHMIDT, Judith - TOBIASCH, Edda - SCHULZE, Margit. Lignin-Derived Biomaterials for Drug Release and Tissue Engineering. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 8, pp., Registrované v: WOS

ADCA373 KOŠÍKOVÁ, Božena - RÉVAJOVÁ, A. - DEMIANOVÁ, V. The effect of adding lignin on modification of surface properties of polypropylene. In European Polymer Journal, 1995, vol. 31, p. 953-956. (1994: 0.719 - IF, karentované - CCC). (1995 - Current Contents). ISSN 0014-3057.

Citácie:

1. [1.1] ZADEH, Elham Mohammad - O'KEEFE, Sean F. - KIM, Young-Teck. Utilization of Lignin in Biopolymeric Packaging Films. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 7, pp. 7388-7398., Registrované v: WOS

ADCA374 KOŠÍKOVÁ, Božena - SLAMENŇOVÁ, Darina - MIKULÁŠOVÁ, M. - HORVÁTHOVÁ, Eva - LÁBAJ, Juraj. Reduction of carcinogenesis by bio-based lignin derivatives. In Biomass and Bioenergy, 2002, vol. 23, no. 2, p. 153-159. ISSN 0961-9534.

## Citácie:

1. [1.1] LI, Yan - LI, Jia - ZHAO, Hua. *The Preparation of Chitosan from Corncob Hydrolyzate by Actinomucor elegans*. In *ADVANCES IN APPLIED BIOTECHNOLOGY*. ISSN 1876-1100, 2018, vol. 444, no., pp. 653-662., Registrované v: WOS
  2. [1.1] YANG, Yongxing - LV, Guangqiang - GUO, Wei - ZHANG, Limin. *Synthesis of mesoporous silica-included heteropolyacids materials and the utilization for the alkylation of phenol with cyclohexene*. In *MICROPOROUS AND MESOPOROUS MATERIALS*. ISSN 1387-1811, 2018, vol. 261, no., pp. 214-219., Registrované v: WOS
  3. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. *Advanced applications of lignin-based materials*. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS
- ADCA375 KOŠÍKOVÁ, Božena - ĎURIŠ, M. - DEMIANOVÁ, V. Conversion of lignin biopolymer into surface-active derivatives. In *European Polymer Journal*, 2000, vol. 36, p. 1209-1212. (1999: 0.720 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0014-3057.
- Citácie:
1. [1.1] CHEN, Shuyan - LIU, Hongjuan - SUN, Hong - YAN, Xiang - WANG, Gehua - ZHOU, Yujie - ZHANG, Jianan. *Synthesis and physiochemical performance evaluation of novel sulphobetaine zwitterionic surfactants from lignin for enhanced oil recovery*. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2018, vol. 249, no., pp. 73-82., Registrované v: WOS
  2. [1.1] WANG, Yingying - WANG, Xiaohong - DING, Yongmei - ZHOU, Zilong - HAO, Chen - ZHOU, Saisai. *Novel sodium lignosulphonate assisted synthesis of well dispersed Fe<sub>3</sub>O<sub>4</sub> microspheres for efficient adsorption of copper (II)*. In *POWDER TECHNOLOGY*. ISSN 0032-5910, 2018, vol. 325, no., pp. 597-605., Registrované v: WOS
- ADCA376 KOŠÍKOVÁ, Božena - HRICOVÍNI, Miloš - COSENTINO, C. Interaction of lignin and polysaccharides in beech wood (*Fagus sylvatica*) during drying processes. In *Wood Science and Technology*, 1999, vol. 33, p. 373-380.
- Citácie:
1. [1.1] NISHIDA, Masakazu - TANAKA, Tomoko - MIKI, Tsunehisa - ITO, Takafumi - KANAYAMA, Kozo. *Instrumental analyses of nanostructures and interactions with bound water of superheated steam treated plant materials*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 114, no., pp. 1-13., Registrované v: WOS
- ADCA377 KOŠÍKOVÁ, Božena - GREGOROVÁ, Adriana. Sulfur-free lignin as reinforcing component of styrene-butadiene rubber. In *Journal of Applied Polymer Science*, 2005, vol. 97, p. 924-929. (2004: 1.021 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0021-8995.
- Citácie:
1. [1.1] ABEJON, Ricardo - PEREZ-ACEBO, Heriberto - CLAVIJO, Leonardo. *Alternatives for Chemical and Biochemical Lignin Valorization: Hot Topics from a Bibliometric Analysis of the Research Published During the 2000-2016 Period*. In *PROCESSES*. ISSN 2227-9717, 2018, vol. 6, no. 8, pp., Registrované v: WOS
  2. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. *Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers*. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
  3. [1.1] YU, Chunhan - ZHANG, Wentao - BEKELE, Lemma Dadi - LU, Xiang'an - DUNS, Gregory Joseph - JIN, Leilei - JIA, Qi - CHEN, Jishuang. *Characterization of Thermoplastic Composites Developed with Wheat Straw and Enzymatic-hydrolysis Lignin*. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 2, pp. 3219-3235., Registrované v: WOS
  4. [1.2] XIANG, Yonggang - LI, Zibiao. *Lignin-based functional nanocomposites*. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 49-80., Registrované v: SCOPUS
- ADCA378 KOŠÍKOVÁ, Božena - GREGOROVÁ, Adriana - OSVALD, A. - KRAJČOVIČOVÁ, J. Role of lignin filler in stabilization of natural rubber-based composites. In *Journal of Applied Polymer Science*, 2007, vol. 103, p. 1226-1231. (2006: 1.306 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0021-8995.
- Citácie:
1. [1.1] GOMEZ-FERNANDEZ, Sandra - GUENTHER, Martin - SCHARTEL, Bernhard - ANGELES CORCUERA, M. - ECEIZA, Arantxa. *Impact of the combined use of layered double hydroxides, lignin and phosphorous polyol on the fire behavior of flexible polyurethane foams*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 125, no., pp. 346-359., Registrované v: WOS
  2. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. *Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers*. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
  3. [1.2] SALLEM-IDRISSI, N. - VAN VELTHEM, P. - SCLAVONS, M. *Fully Bio-Sourced Nylon 11/Raw Lignin Composites: Thermal and Mechanical Performances*. In *Journal of Polymers and*

- the Environment*. ISSN 15662543, 2018-12-01, 26, 12, pp. 4405-4414., Registrované v: SCOPUS
4. [1.2] TRAN, My Ha - LEE, Eun Yeol. Green Preparation of Bioplastics Based on Degradation and Chemical Modification of Lignin Residue. In *Journal of Wood Chemistry and Technology*. ISSN 02773813, 2018-11-02, 38, 6, pp. 460-478., Registrované v: SCOPUS
- ADCA379 KOŠÍKOVÁ, Božena. Morphological and chemical characteristics of stem and knot poplar wood. In *Wood Research*, Vol. 54, no. 3, (2009), p. 117-122. ISSN 1336-4561.
- Citácie:
- [1.1] GALLINA, Gianluca - CABEZA, Alvaro - GRENMAN, Henrik - BIASI, Pierdomenico - GARCIA-SERNA, Juan - SALMI, Tapio. Hemicellulose extraction by hot pressurized water pretreatment at 160 degrees C for 10 different woods: Yield and molecular weight. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2018, vol. 133, no., pp. 716-725., Registrované v: WOS
  - [1.1] VIEIRA ROCHA, Maria Fernanda - COSTA, Livia Ribeiro - COSTA, Luciano Junqueira - CAXITO DE ARAUJO, Ana Clara - DIAS SOARES, Bruno Charles - GHERARDI HEIN, Paulo Ricardo. Wood Knots Influence the Modulus of Elasticity and Resistance to Compression. In *FLORESTA E AMBIENTE*. ISSN 2179-8087, 2018, vol. 25, no. 4, pp., Registrované v: WOS
- ADCA380 KOŠÍKOVÁ, Božena - JONIAK, Dusan - KOSÁKOVÁ, Ľ.. On the properties of benzyl ether bonds in the lignin-saccharidic complex isolated from spruce. In *Holzforschung*, 1979, vol. 33, p. 11-14. ISSN 0018-3830. *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1979, vol. 33, p. 11-14. ISSN 0018-3830.
- Citácie:
- [1.1] NISHIMURA, Hiroshi - KAMIYA, Akihiro - NAGATA, Takashi - KATAHIRA, Masato - WATANABE, Takashi. Direct evidence for alpha ether linkage between lignin and carbohydrates in wood cell walls. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
  - [1.1] TARASOV, Dmitry - LEITCH, Mathew - FATEHI, Pedram. Lignin-carbohydrate complexes: properties, applications, analyses, and methods of extraction: a review. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
  - [1.2] SINGH, Raj - UPADHYAY, Sushil Kumar - RANI, Anju - KUMAR, Permod - KUMAR, Amit - SINGH, Chhaya. Lignin biodegradation in nature and significance. In *Vegetos*. ISSN 09704078, 2018-12-01, 31, 4, pp. 39-44., Registrované v: SCOPUS
- ADCA381 KOŠTÁLOVÁ, D. - KARDOŠOVÁ, Alžbeta - HAJNICKÁ, Valéria. Effect of Mahonia aquifolium stem bark crude extract and one of its polysaccharide components on production of IL-8. In *Fitoterapia*, 2001, vol. 72, p. 802-806. ISSN 0367-326X.
- Citácie:
- [1.1] GODEVAC, Dejan - DAMJANOVIC, Ana - STANOJKOVIC, Tatjana P. - ANDELKOVIC, Boban - ZDUNIC, Gordana. Identification of cytotoxic metabolites from Mahonia aquifolium using H-1 NMR-based metabolomics approach. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2018, vol. 150, no., pp. 9-14., Registrované v: WOS
- ADCA382 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Corrigendum to "Structural diversity of pectins isolated from the Styrian oil-pumpkin (*Cucurbita pepo* var. *styriaca*) fruit". In *Carbohydrate Polymers*, 2014, vol. 99, p. 831. (2013: 3.916 - IF, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] COLODEL, Cristiane - VRIESMANN, Lucia Cristina - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from Ponkan mandarin (*Citrus reticulata* Blanco cv. Ponkan) peel. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 120-127., Registrované v: WOS
  - [1.1] LIU, Qin - FANG, Jianping - WANG, Peipei - DU, Zhenyun - LI, Yanling - WANG, Shunchun - DING, Kan. Characterization of a pectin from *Lonicera japonica* Thunb. and its inhibition effect on A beta(42) aggregation and promotion of neuritogenesis. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 112-120., Registrované v: WOS
- ADCA383 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - POLOVKA, Martin - MICHAELSEN, Terje Einar - PAULSEN, Berit Smestad. Polysaccharides from Styrian oil-pumpkin with antioxidant and complement-fixing activity. In *Industrial Crops and Products*, 2013, vol. 41, p. 127-133. (2012: 2.468 - IF, 1.002 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0926-6690.
- Citácie:
- [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (*Cucurbita maxima*) pulp and peel using hydrochloric acid solution. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658.,



Registrované v: WOS

2. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp.,

Registrované v: WOS

3. [1.2] YIN, Hong Mei - WANG, Su Nan - NIE, Shao Ping - XIE, Ming Yong. Coix polysaccharides: Gut microbiota regulation and immunomodulatory. In Bioactive Carbohydrates and Dietary Fibre. ISSN 22126198, 2018-10-01, 16, pp. 53-61., Registrované v: SCOPUS

ADCA384 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - EBRINGEROVÁ, Anna. Bioactive hemicelluloses alkali-extracted from Fallopia sachalinensis leaves. In Carbohydrate Research, 2014, vol. 398, p. 19-24. (2013: 1.966 - IF, 0.639 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] GEORGIEV, Yordan N. - OGNANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS

2. [1.1] SHAKHMATOV, Evgeny G. - BELYI, Vladimir A. - MAKAROVA, Elena N. Structure of acid-extractable polysaccharides of tree greenery of Picea abies. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 320-330., Registrované v: WOS

3. [3.1] Abejón, R (Abejón, Ricardo). A Bibliometric Study of Scientific Publications regarding Hemicellulose Valorization during the 2000–2016 Period: Identification of Alternatives and Hot Topics. In: CHEMENGINEERING. ISSN 1385-8947, Vol. 2 (2018), Issue 1, Article number 7, p. 1-31

ADCA385 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Structural diversity of pectins isolated from the Styrian oil-pumpkin (Cucurbita pepo var. styriaca) fruit. In Carbohydrate Polymers, 2013, vol. 93, p. 163-171. (2012: 3.479 - IF, 1.409 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] CHOI, Yu-Ra - LEE, Yun-Kyung - CHANG, Yoon Hyuk. Structural and rheological properties of pectic polysaccharide extracted from Ulmus davidiana esterified by succinic acid. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 245-254., Registrované v: WOS

2. [1.1] COLODEL, Cristiane - VRIESMANN, Lucia Cristina - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from Ponkan mandarin (Citrus reticulata Blanco cv. Ponkan) peel. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 120-127., Registrované v: WOS

3. [1.1] COLODEL, Cristiane - VRIESMANN, Lucia Cristina - TEOFILLO, Reinaldo Francisco - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Extraction of pectin from ponkan (Citrus reticulata Blanco cv. Ponkan) peel: Optimization and structural characterization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 385-391., Registrované v: WOS

4. [1.1] CORREA-FERREIRA, Marilia Locatelli - FERREIRA, Daniele Maria - DALLAZEN, Jorge Luiz - SILVA, Artur M. S. - DE PAULA WERNER, Maria Fernanda - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Gastroprotective effects and structural characterization of a pectic fraction isolated from Artemisia campestris subsp. maritima. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2395-2403., Registrované v: WOS

5. [1.1] HAN, Kun - JIN, Can - CHEN, Huanjun - WANG, Peipei - YU, Mei - DING, Kan. Structural characterization and anti-A549 lung cancer cells bioactivity of a polysaccharide from Houttuynia cordata. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 120, no., pp. 288-296., Registrované v: WOS

6. [1.1] LEE, Jin-Hye - LEE, Yun-Kyung - CHOI, Yu-Ra - PARK, Joon - JUNG, Sung Keun - CHANG, Yoon Hyuk. The characterization, selenylation and anti-inflammatory activity of pectic polysaccharides extracted from Ulmus pumila L. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 311-318., Registrované v: WOS

7. [1.1] QU, Honglan - YANG, Wei - LI, Jie. Structural characterization of a polysaccharide from the flower buds of Tussilago farfara, and its effect on proliferation and apoptosis of A549 human non-small lung cancer cell line. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 113, no., pp. 849-858., Registrované v: WOS

8. [1.1] SEO, Soo Young - KANG, Yu-Ra - LEE, Yun-Kyung - LEE, Jin Hye - CHANG, Yoon Hyuk.

*Physicochemical, molecular, emulsifying and rheological characterizations of sage (Salvia splendens) seed gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 115, no., pp. 1174-1182., Registrované v: WOS*

9. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. *Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS*

10. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). *Alcayota Gum Films: Experimental Reviews. In: JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. ISSN 2327-6045, Vol. 6 (2018), p. 11-58*

ADCA386 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Isolation and characterization of pectic polysaccharides from the seeded fruit of oil pumpkin (Cucurbita pepo L. var. Styriaca). In Industrial Crops and Products, 2010, vol.31, p. 370-377. (2009: 2.103 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0926-6690.

Citácie:

1. [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. *Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (Cucurbita maxima) pulp and peel using hydrochloric acid solution. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658., Registrované v: WOS*

2. [1.1] DAMMAK, Mariem Iaimi - CHAKROUN, Ibtissem - MZOUGH, Zeineb - AMAMOU, Sawsen - BEN MANSOUR, Hedi - LE CERF, Didier - MAJDOUB, Hatem. *Characterization of polysaccharides from Prunus amygdalus peels: Antioxidant and antiproliferative activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 198-206., Registrované v: WOS*

3. [1.1] LIN, Tingting - LIU, Yan - LAI, Changjiangsheng - YANG, Tingting - XIE, Junbo - ZHANG, Yanqing. *The effect of ultrasound assisted extraction on structural composition, antioxidant activity and immunoregulation of polysaccharides from Ziziphus jujuba Mill var. spinosa seeds. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 125, no., pp. 150-159., Registrované v: WOS*

4. [1.1] LIU, Hua-Min - LI, Yao-Ran - WU, Min - YIN, Hui-Shuang - WANG, Xue-De. *Two-step isolation of hemicelluloses from Chinese quince fruit: Effect of hydrothermal treatment on structural features. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 111, no., pp. 615-624., Registrované v: WOS*

5. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. *Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS*

6. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). *Alcayota Gum Films: Experimental Reviews. In: JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. ISSN 2327-6045, Vol. 6 (2018), p. 11-58*

ADCA387 KOVÁČIK, Vladimír - HIRSCH, Ján - KOVÁČ, Pavol - HEERMA, W. - THOMASOATES, J. - HAVERKAMP, J. *Oligosaccharide characterization using collision-induced dissociation fast-atom-bombardment mass spectrometry - evidence for internal monosaccharide residue loss. In Journal of Mass Spectrometry, 1995, vol. 30, p. 949-958. ISSN 1076-5174.*

Citácie:

1. [1.1] AGYEKUM, Isaac - PEPI, Lauren - YU, Yanlei - LI, Junhui - YAN, Lufeng - LINHARDT, Robert J. - CHEN, Shiguo - AMSTER, I. Jonathan. *Structural elucidation of fucosylated chondroitin sulfates from sea cucumber using FTICR-MS/MS. In EUROPEAN JOURNAL OF MASS SPECTROMETRY. ISSN 1469-0667, 2018, vol. 24, no. 1, pp. 157-167., Registrované v: WOS*

ADCA388 KOVÁČIK, Vladimír - KOMPIŠ, I. *Alkaloids from Vinca minor. XXIII. Mass spectrometry of eburnamine-type alkaloids. In Collection of Czechoslovak Chemical Communications, 1969, vol. 34, p. 2809-2818. ISSN 0010-0765.*

Citácie:

1. [1.1] ABOUZEID, Sara - BEUTLING, Ulrike - SURUP, Frank - BAR, Fatma M. Abdel - AMER, Mohamed M. - BADRIA, Farid A. - YAHYAZADEH, Mandi - BROENSTRUP, Mark - SELMAR, Dirk. *Treatment of Vinca minor Leaves with Methyl Jasmonate Extensively Alters the Pattern and Composition of Indole Alkaloids. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 2905-2909., Registrované v: WOS*

ADCA389 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Vojtech - KOČA, Jaroslav. *Dispersion interactions of carbohydrates with condensate aromatic moieties: Theoretical study on the CH-pi*



interaction additive properties. In *Physical Chemistry Chemical Physics*, 2011, vol. 13, p. 14215-14222. (2010: 3.453 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1463-9076.

Citácie:

1. [1.1] HUDSON, Kieran L. *Carbohydrate-Based Interactions at the Molecular and the Cellular Level Introduction*. In *CARBOHYDRATE-BASED INTERACTIONS AT THE MOLECULAR AND THE CELLULAR LEVEL*. ISSN 2190-5053, 2018, vol., no., pp. 1-34., Registrované v: WOS

2. [1.1] LEE, Ka Hung - SCHNUPF, Udo - SUMPTER, Bobby G. - IRLE, Stephan. *Performance of Density-Functional Tight-Binding in Comparison to Ab Initio and First-Principles Methods for Isomer Geometries and Energies of Glucose Epimers in Vacuo and Solution*. In *ACS OMEGA*. ISSN 2470-1343, 2018, vol. 3, no. 12, pp. 16899-16915., Registrované v: WOS

3. [1.1] SHEN, Chao - GONG, Zhenyu - GAO, Lei - GU, Minglong - HUAN, Long - WANG, Sicong - XIE, Ju. *Theoretical study on host-guest interaction between pillar[4]arene and molecules or ions*. In *JOURNAL OF MOLECULAR MODELING*. ISSN 1610-2940, 2018, vol. 24, no. 8, pp., Registrované v: WOS

ADCA390 KOZMON, Stanislav - TVAROŠKA, Igor. *Catalytic mechanism of glycotransferases: Hybrid quantum mechanical/molecular mechanical study of the inverting N-acetylglucosaminyl-transferase*. In *Journal of the American Chemical Society*, 2006, vol. 128, p. 16921-16927. (2005: 7.419 - IF). ISSN 0002-7863.

Citácie:

1. [1.1] GERLACH, David - GUO, Yinglan - DE CASTRO, Cristina - KIM, Sun-Hwa - SCHLATTERER, Katja - XU, Fei-Fei - PEREIRA, Claney - SEEBERGER, Peter H. - ALI, Sara - CODEE, Jeroen - SIRISARN, Wanchat - SCHULTE, Berit - WOLZ, Christiane - LARSEN, Jesper - MOLINARO, Antonio - LEE, Bok Luel - XIA, Guoqing - STEHLE, Thilo - PESCHEL, Andreas. *Methicillin-resistant Staphylococcus aureus alters cell wall glycosylation to evade immunity*. In *NATURE*. ISSN 0028-0836, 2018, vol. 563, no. 7733, pp. 705-+, Registrované v: WOS

ADCA391 KRAJČOVIČ, Tomáš - BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - LACÍK, Igor - UHELSKÁ, Lucia - CHORVÁT, Dušan - NEDELA, Vilém - TIHLAŘIKOVÁ, Eva - GERICHKE, Martin - HEINZE, Thomas - GEMEINER, Peter. *Polyelectrolyte complex beads by novel two-step process for improved performance of viable whole-cell Bayeyer-Villiger monooxygenase by immobilization*. In *Catalyst*, 2017, vol. 7, no. 11, art. no. 353. (2016: 3.082 - IF, Q2 - JCR, 0.928 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2073-4344. Grunwald Peter, ed. *Immobilized Biocatalysts*, 2018, p. 130-141. (2016: 3.082 - IF, Q2 - JCR, 0.928 - SJR, Q2 - SJR, karentované - CCC). ISSN 978-3-03897-318-8.

Citácie:

1. [1.1] GRUNWALD, P. *Immobilized Biocatalysts*. In *CATALYSTS*. ISSN 2073-4344, SEP 2018, vol. 8, no. 9., Registrované v: WOS

2. [1.1] JEANNOT, L. - BELL, M. - ASHWELL, R. - VOLODKIN, D. - VIKULINA, A.S. *Internal Structure of Matrix-Type Multilayer Capsules Templated on Porous Vaterite CaCO<sub>3</sub> Crystals as Probed by Staining with a Fluorescence Dye*. In *MICROMACHINES*. ISSN 2072-666X, NOV 2018, vol. 9, no. 11., Registrované v: WOS

ADCA392 KRAMÁROVÁ, Z. - ALEXY, P. - CHODÁK, Ivan - ŠPIRK, E. - HUDEC, I. - KOŠÍKOVÁ, Božena - GREGOROVÁ, Anna - ŠÚRI, P. - FERANC, J. - BUGAJ, P. - ĎURAČKA, M. *Biopolymers as fillers for rubber blends*. In *Polymers for Advanced Technologies*, 2007, vol. 18, p. 132-140. (2006: 1.406 - IF, karentované - CCC). (2007 - Current Contents). ISSN 1042-7147.

Citácie:

1. [1.1] GILL, Y.Q. - SAEED, F. - IRFAN, M.S. - EHSAN, H. - SHAKOOR, A. *Hybrid NBR/Chitosan/Nano-Silanised Silica Based Green Rubber Products*. In *JOURNAL OF RUBBER RESEARCH*. ISSN 1511-1768, 2018, vol. 21, no. 3, p. 194-208., Registrované v: WOS

2. [1.1] ION, S. - OPRIS, C. - COJOCARU, B. - TUDORACHE, M. - ZGURA, I. - GALCA, A.C. - BODESCU, A.M. - ENACHE, M. - MARIA, G.M. - PARVULESCU, V.I. *One-Pot Enzymatic Production of Lignin-Composites*. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, APR 20 2018, vol. 6., Registrované v: WOS

3. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. *Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers*. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS

4. [1.2] IVANOVA, S. F. - PETROVA, N. N. *Polyfunctional materials based on collagen Hydrolysate obtained from swim bladders of northern fish species*. In *Materials Science Forum*. ISSN 02555476, 2018-01-01, 945 MSF, pp. 422-427., Registrované v: SCOPUS

ADCA393 KRÁTKY, Z. - BIELY, Peter - BAUER, Štefan. *Mechanism of 2-deoxy-D-glucose inhibition of cell wall polysaccharide and glycoprotein biosyntheses in Saccharomyces cerevisiae*. In *European Journal of Biochemistry*, 1975, vol. 54, p. 459-467. ISSN 0014-2956.

Citácie:

1. [1.1] LE POGAM, Pierre - DOUE, Mickael - LE PAGE, Yann - HABAUZIT, Denis -

- ZHADOBOV, Maxim - SAULEAU, Ronan - LE DREAN, Yves - RONDEAU, David. *Untargeted Metabolomics Reveal Lipid Alterations upon 2-Deoxyglucose Treatment in Human HaCaT Keratinocytes*. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2018, vol. 17, no. 3, pp. 1146-1157., Registrované v: WOS
2. [1.1] ZHANG, Ning - FAN, Yuxuan - LI, Chen - WANG, Qiming - LEKSAWASDI, Noppol - LI, Fuli - WANG, Shi'an. *Cell permeability and nuclear DNA staining by propidium iodide in basidiomycetous yeasts*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 9, pp. 4183-4191., Registrované v: WOS
- ADCA394 KREMnický, Ľubomír - BIELY, Peter. Disaccharide permeases - constituents of xylanolytic and mannanolytic systems of *Aureobasidium pullulans*. In *Biochimica et Biophysica Acta*, 1998, vol. 1425, p. 560-566.
- Citácie:
1. [1.1] MALHOTRA, Girisha - CHAPADGAONKAR, Shilpa S. *Production and applications of xylanases – An overview*. In *Biotechnologia*. ISSN 08607796, 2018-01-01, 99, 1, pp. 59-72., Registrované v: WOS
- ADCA395 KREMnický, Ľubomír - BIELY, Peter. Beta-Mannanolytic system of *Aureobasidium pullulans*. In *Archives of Microbiology*, 1997, vol. 167, p. 350-355. ISSN 0302-8933.
- Citácie:
1. [1.1] PRASONGSUK, Sehanat - LOTRAKUL, Pongtharin - ALI, Imran - BANKEEREE, Wichanee - PUNNAPAYAK, Hunsu. *The current status of Aureobasidium pullulans in biotechnology*. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 2, pp. 129-140., Registrované v: WOS
2. [1.1] YOU, Shengping - DING, Juanjuan - DAI, Yemei - XING, Ruizhe - QI, Wei - WANG, Mengfan - SU, Rongxin - HE, Zhimin. *A simply enzymatic hydrolysis pretreatment for beta-mannanase production from konjac powder*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 249, no., pp. 1052-1057., Registrované v: WOS
- ADCA396 KREMnický, Ľubomír - MASTIHUBA, Vladimír - CÔTÉ, G.L. *Trichoderma reesei* acetyl esterase catalyzes transesterification in water. In *Journal of Molecular Catalysis B: Enzymatic*, 2004, vol. 30, p. 229-239. ISSN 1381-1177.
- Citácie:
1. [1.1] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. *Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases*. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: WOS
2. [1.1] STARON, Jakub - DABROWSKI, Janusz M. - CICHON, Ewelina - GUZIK, Maciej. *Lactose esters: synthesis and biotechnological applications*. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 245-258., Registrované v: WOS
- ADCA397 KREMnický, Ľubomír - BIELY, Peter. Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase. In *Journal of Molecular Catalysis B - Enzymatic*, 2005, vol. 37, p. 72-78. ISSN 1381-1177.
- Citácie:
1. [1.1] STARON, Jakub - DABROWSKI, Janusz M. - CICHON, Ewelina - GUZIK, Maciej. *Lactose esters: synthesis and biotechnological applications*. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 2, pp. 245-258., Registrované v: WOS
2. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. *Overexpression of Escherichia coli Acetyl Esterase Using a Strategy of Multi-copy Promoters*. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
- ADCA398 KRIST, P. - VANNUCCI, L. - KUZMA, M. - MAN, P. - SADALAPURE, K. - PATEL, A. - BEZOUŠKA, K. - POSPÍŠIL, M. - PETRUŠ, Ladislav - LINDHORST, T.K. - KŘEN, V. Fluorescent labelled thiourea-bridged glycodendrons. In *ChemBiochem*, 2004, vol. 5, p. 445-452. ISSN 1439-4227.
- Citácie:
1. [1.1] VU KHAC HOANG BUI - PARK, Duckshin - LEE, Young-Chul. *Aminoclay for biological and environmental applications: An updated review*. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2018, vol. 336, no., pp. 757-772., Registrované v: WOS
- ADCA399 KRIŽÁKOVÁ, Martina, Zámorová - HOLAZOVÁ, Alena, Šedivá - MILJUŠ, Goran - ROBAJAC, Dragana - ŠUNDERIČ, Miloš - MALENKOVIČ, Vesna - DUKANOVICH, Blagoje - GEMEINER, Peter - KATRLÍK, Jaroslav - NEDIČ, Olgica. Analysis of changes in the glycan composition of serum, cytosol and membrane glycoprotein biomarkers of colorectal cancer using a lectin-based protein microarray. In *Analytical Methods*, 2017, vol. 9, p. 2660-2666. (2016: 1.900 - IF, Q2 - JCR, 0.595 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1759-9660.
- Citácie:

1. [1.1] LEE, Pey Yee - CHIN, Siok-Fong - LOW, Teck Yew - JAMAL, Rahman. *Probing the colorectal cancer proteome for biomarkers: Current status and perspectives*. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2018, vol. 187, no., pp. 93-105., Registrované v: WOS
2. [1.1] WANIWAN, Juanilita T. - CHEN, Yi-Ju - CAPANGPANGAN, Rey - WENG, Shao-Hsing - CHEN, Yu-Ju. *Glycoproteomic Alterations in Drug-Resistant Nonsmall Cell Lung Cancer Cells Revealed by Lectin Magnetic Nanoprobe-Based Mass Spectrometry*. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2018, vol. 17, no. 11, pp. 3761-3773., Registrované v: WOS

ADCA400 KRIŽKOVÁ, L. - ĎURAČKOVÁ, Z. - ŠANDULA, Jozef - SLAMEŇOVÁ, D. - SASINKOVÁ, Vlasta - SIVOŇOVÁ, M. - KRAJČOVIČ, J. Fungal  $\beta$ -(1-3)-D-glucan derivatives exhibit high antioxidative and antimutagenic activity in vitro. In *Anticancer Research : International Journal of Cancer Research and Treatment*, 2003, vol. 23, p. 2751-2756. ISSN 0250-7005.

Citácie:

1. [1.1] CIFTCI, Osman - DUMAN, Ahmet Sefa - TURKMEN, Nese Basak - TASLIDERE, Asli. *Beta-glucan prevents toxic effects of 2,3,7,8-TCDD in terms of oxidative and histopathological damage in heart tissue of rats*. In *BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1984-8250, 2018, vol. 54, no. 3, pp., Registrované v: WOS
2. [1.1] KOC, F. - ERISGIN, Z. - TEKELIOGLU, Y. - TAKIR, S. *The effect of beta glucan on MTX induced testicular damage in rats*. In *BIOTECHNIC & HISTOCHEMISTRY*. ISSN 1052-0295, 2018, vol. 93, no. 1, pp. 70-75., Registrované v: WOS
3. [1.1] SOHN, Jae-Hak - KIM, Joo Wan - JUNG, Go-Woon - PARK, Dong-Chan - MOON, Seung-Bae - CHO, Hyung-Rae - KU, Sae Kwang - CHOI, Jae-Suk. *Effects of beta-glucan and Folium mori Extract Combinations in STZ-induced Diabetic Rats: Effectiveness of Various BGFM Complex Compositions in Treating Diabetes*. In *CURRENT NUTRITION & FOOD SCIENCE*. ISSN 1573-4013, 2018, vol. 14, no. 3, pp. 235-246., Registrované v: WOS
4. [1.1] SONAT, Fusun Ak - ALCAY, Selim - TOKER, Mehmed Berk - PEKER, Sabire - USTUNER, Burcu. *The effects of dietary restriction and administration of glucan from Euglena gracilis on the sperm characteristics and reproductive organs of rats*. In *ANDROLOGIA*. ISSN 0303-4569, 2018, vol. 50, no. 9, pp., Registrované v: WOS

ADCA401 KRIŽKOVÁ, Livia - ĎURAČKOVÁ, Zdena - ŠANDULA, Jozef - SLAMEŇOVÁ, Darina - SASINKOVÁ, Vlasta - SIVOŇOVÁ, Monika - KRAJČOVIČ, Juraj. Fungal beta-(1-3)-D-glucan derivatives exhibit high antioxidative and antimutagenic activity in vitro. In *Anticancer Research : International Journal of Cancer Research and Treatment*. - Athens : J. G. Delinassios, 2003, vol. 23, no. 3B, p. 2751-2756. ISSN 0250-7005.

Citácie:

1. [1.1] CIFTCI, Osman - DUMAN, Ahmet Sefa - TURKMEN, Nese Basak - TASLIDERE, Asli. *Beta-glucan prevents toxic effects of 2,3,7,8-TCDD in terms of oxidative and histopathological damage in heart tissue of rats*. In *BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1984-8250, 2018, vol. 54, no. 3, pp., Registrované v: WOS
2. [1.1] SOHN, Jae-Hak - KIM, Joo Wan - JUNG, Go-Woon - PARK, Dong-Chan - MOON, Seung-Bae - CHO, Hyung-Rae - KU, Sae Kwang - CHOI, Jae-Suk. *Effects of beta-glucan and Folium mori Extract Combinations in STZ-induced Diabetic Rats: Effectiveness of Various BGFM Complex Compositions in Treating Diabetes*. In *CURRENT NUTRITION & FOOD SCIENCE*. ISSN 1573-4013, 2018, vol. 14, no. 3, pp. 235-246., Registrované v: WOS
3. [1.1] SONAT, Fusun Ak - ALCAY, Selim - TOKER, Mehmed Berk - PEKER, Sabire - USTUNER, Burcu. *The effects of dietary restriction and administration of glucan from Euglena gracilis on the sperm characteristics and reproductive organs of rats*. In *ANDROLOGIA*. ISSN 0303-4569, 2018, vol. 50, no. 9, pp., Registrované v: WOS

ADCA402 KRIŽKOVÁ, Livia - ĎURAČKOVÁ, Z. - ŠANDULA, Jozef - SASINKOVÁ, Vlasta - KRAJČOVIČ, J. Antioxidative and antimutagenic activity of yeast cell wall mannans in vitro. In *Mutation Research*, 2001, vol. 497, p. 213-222. ISSN 1568-7864.

Citácie:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. *Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals*. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY*, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
2. [1.1] GUERREIRO, Ines - OLIVA-TELES, Aires - ENES, Paula. *Prebiotics as functional ingredients: focus on Mediterranean fish aquaculture*. In *REVIEWS IN AQUACULTURE*. ISSN 1753-5123, 2018, vol. 10, no. 4, pp. 800-832., Registrované v: WOS
3. [1.1] KOKSAL, B. H. - CENGİZ, O. - AHSAN, U. - SEVİM, O. - TATLI, O. - BEYAZ, D. - BUYUKYORUK, S. - BOYACIOGLU, M. - KUTER, E. - KIZANLIK, P. Kocak - KAYA, M. - ONOL, A. Gokhan. *Effect of dietary prebiotics supplementation on growth performance, relative carcass and organ yields, gut microbiome, and blood malondialdehyde level of broilers subjected*



to post-hatch feed and water restriction. In *EUROPEAN POULTRY SCIENCE*. ISSN 1612-9199, 2018, vol. 82, no., pp., Registrované v: WOS

4. [1.1] MA, Wenjin - CHEN, Xuefeng - WANG, Bo - LOU, Wenjin - CHEN, Xuan - HUA, Junli - SUN, Yu Jiao - ZHAO, Yu - PENG, Tao. Characterization, antioxidativity, and anti-carcinoma activity of exopolysaccharide extract from *Rhodotorula mucilaginosa* CICC 33013. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 768-777., Registrované v: WOS

5. [1.1] SANGURI, Sweta - GUPTA, Damodar. Mannan oligosaccharide requires functional ETC and TLR for biological radiation protection to normal cells. In *BMC CELL BIOLOGY*. ISSN 1471-2121, 2018, vol. 19, no., pp., Registrované v: WOS

6. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

7. [1.1] SULTANA, Afroza - TANAKA, Yusuke - FUSHIMI, Yoshiya - YOSHII, Hidefumi. Stability and release behavior of encapsulated flavor from spray-dried *Saccharomyces cerevisiae* and maltodextrin powder. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2018, vol. 106, no., pp. 809-816., Registrované v: WOS

ADCA403

KRIŽKOVÁ, Livia - ŽITŇANOVÁ, I. - MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - SASINKOVÁ, Vlasta - ĎURAČKOVÁ, Z. - KRAJČOVIČ, J. Antioxidant and antimutagenic activity of mannan neoglycoconjugates: Mannan-human serum albumine and mannan-penicillin G acylase. In *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, 2006, vol. 606, p. 72-79. ISSN 1383-5718.

Citácie:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60*. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS

2. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In *NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL*. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS

3. [1.1] LIU, N. - WANG, J. Q. - JIA, S. C. - CHEN, Y. K. - WANG, J. P. Effect of yeast cell wall on the growth performance and gut health of broilers challenged with aflatoxin B-1 and necrotic enteritis. In *POULTRY SCIENCE*. ISSN 0032-5791, 2018, vol. 97, no. 2, pp. 477-484., Registrované v: WOS

4. [1.1] LIU, Ning - WANG, Jinquan - LIU, Zhaoyang - WANG, Yongchao - WANG, Jianping. Effect of supplemental yeast cell walls on growth performance, gut mucosal glutathione pathway, proteolytic enzymes and transporters in growing broiler chickens. In *JOURNAL OF ANIMAL SCIENCE*. ISSN 0021-8812, 2018, vol. 96, no. 4, pp. 1330-1337., Registrované v: WOS

ADCA404

KRONEK, Juraj - LUSTOŇ, Jozef - KRONEKOVÁ, Zuzana - PAULOVÍČOVÁ, Ema - FARKAŠ, Pavol - PETRENČÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Lucia - JANIGOVÁ, Ivica. Synthesis and bioimmunological efficiency of poly(2-oxazolines) containing a free amino group. In *Journal of Materials Science: Materials in Medicine*, 2010, vol. 21, p. 879 - 886. (2009: 1.955 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0957-4530.

Citácie:

1. [1.1] GAO, H. - XU, J. - HU, X. - ZHU, N. - GUO, K. Synthesis of Poly(Ester Amide). In *PROGRESS IN CHEMISTRY*. ISSN 1005-281X, NOV 15 2018, vol. 30, no. 11, p. 1634-1645., Registrované v: WOS

2. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In *BIOMATERIALS*. ISSN 0142-9612, SEP 2018, vol. 178, p. 204-280., Registrované v: WOS

ADCA405

KRONEK, Juraj - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MENDREK, Barbara. In vitro bio-immunological and cytotoxicity studies of poly(2-oxazolines). In *Journal of Materials Science: Materials in Medicine*, 2011, vol. 22, p. 1725 - 1734. (2010: 2.325 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0957-4530.

Citácie:

1. [1.1] ENGLERT, C. - BRENDDEL, J.C. - MAJDANSKI, T.C. - YILDIRIM, T. - SCHUBERT, S. - GOTTSCHALDT, M. - WINDHAB, N. - SCHUBERT, U.S. Pharmapolymer in the 21st century: Synthetic polymers in drug delivery applications. In *PROGRESS IN POLYMER SCIENCE*. ISSN 0079-6700, DEC 2018, vol. 87, p. 107-164., Registrované v: WOS

2. [1.1] FAEL, H. - RAFOLS, C. - DEMIREL, A.L. Poly(2-Ethyl-2-Oxazoline) as an Alternative to Poly(Vinylpyrrolidone) in Solid Dispersions for Solubility and Dissolution Rate Enhancement of Drugs. In JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0022-3549, SEP 2018, vol. 107, no. 9, p. 2428-2438., Registrované v: WOS
3. [1.1] GRIMAUDO, M.A. - NICOLI, S. - SANTI, P. - CONCHEIRO, A. - ALVAREZ-LORENZO, C. Cyclosporine-loaded cross-linked inserts of sodium hyaluronan and hydroxypropyl-beta-cyclodextrin for ocular administration. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, DEC 1 2018, vol. 201, p. 308-316., Registrované v: WOS
4. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, SEP 2018, vol. 178, p. 204-280., Registrované v: WOS
5. [1.1] ROMIO, M. - MORGESE, G. - TRACHSEL, L. - BABITY, S. - PARADISI, C. - BRAMBILLA, D. - BENETTI, E.M. Poly(2-oxazoline)-Pterostilbene Block Copolymer Nanoparticles for Dual-Anticancer Drug Delivery. In BIOMACROMOLECULES. ISSN 1525-7797, JAN 2018, vol. 19, no. 1, p. 103-111., Registrované v: WOS
6. [1.1] SCHWARZENBOCK, C. - VAGIN, S.I. - HEINZ, W.R. - NELSON, P.J. - RIEGER, B. Studies on the Biocompatibility of Poly(diethyl vinyl-phosphonate) with a New Fluorescent Marker. In MACROMOLECULAR RAPID COMMUNICATIONS. ISSN 1022-1336, AUG 2018, vol. 39, no. 15., Registrované v: WOS
7. [1.2] HOELZER, Doerte - LEISKE, Meike N. - HARTLIEB, Matthias - BUS, Tanja - PRETZEL, David - HOEPPENER, Stephanie - KEMPE, Kristian - THIERBACH, René - SCHUBERT, Ulrich S. Tumor targeting with pH-responsive poly(2-oxazoline)-based nanogels for metronomic doxorubicin treatment. In Oncotarget, 2018-04-27, 9, 32, pp. 22316-22331., Registrované v: SCOPUS

ADCA406 KRONEK, Juraj - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef. Immunomodulatory efficiency of poly(2-oxazolines). In Journal of Materials Science: Materials in Medicine, 2012, vol. 23, no. 6, p. 1457-1464. (2011: 2.316 - IF, 1.006 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0957-4530.

Citácie:

1. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, SEP 2018, vol. 178, p. 204-280., Registrované v: WOS
2. [1.2] HOELZER, Doerte - LEISKE, Meike N. - HARTLIEB, Matthias - BUS, Tanja - PRETZEL, David - HOEPPENER, Stephanie - KEMPE, Kristian - THIERBACH, René - SCHUBERT, Ulrich S. Tumor targeting with pH-responsive poly(2-oxazoline)-based nanogels for metronomic doxorubicin treatment. In Oncotarget, 2018-04-27, 9, 32, pp. 22316-22331., Registrované v: SCOPUS

ADCA407 KRONEKOVÁ, Zuzana - MIKULEC, Marcel - PETRENČÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - JANČINOVÁ, Viera - NOSÁL, Radomír - REDDY, Palem S. - SHIMOGA, Ganesh D. - CHORVÁT, Dušan Jr. - KRONEK, Juraj. Ex vivo and in vivo studies on the cytotoxicity and immunomodulative properties of poly(2-isopropenyl-2-oxazoline) as a new type of biomedical polymer. In Macromolecular Bioscience, 2016, vol. 16, p. 1200-1211. (2015: 3.680 - IF, Q1 - JCR, 1.207 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1616-5187.

Citácie:

1. [1.1] JERCA, F.A. - ANGHELACHE, A.M. - GHIBU, E. - CECOLTAN, S. - STANCU, I.-C. - TRUSCA, R. - VASILE, E. - TEODORESCU, M. - VULUGA, D.M. - HOOGENBOOM, R. - JERCA, V.V. Poly(2-isopropenyl-2-oxazoline) Hydrogels for Biomedical Applications. In CHEMISTRY OF MATERIALS. ISSN 0897-4756, 2018, vol. 30, no. 21, p. 7938-7949., Registrované v: WOS
2. [1.1] JERCA, F.A. - JERCA, V.V. - ANGHELACHE, A.M. - VULUGA, D.M. - HOOGENBOOM, R. Poly(2-isopropenyl-2-oxazoline) as a versatile platform towards thermoresponsive copolymers. In POLYMER CHEMISTRY. ISSN 1759-9954, 2018, vol. 9, no. 25, p. 3473-3478., Registrované v: WOS
3. [1.1] LORSON, T. - LUBTOW, M.M. - WEGENER, E. - HAIDER, M.S. - BOROVA, S. - NAHM, D. - JORDAN, R. - SOKOLSKI-PAPKOV, M. - KABANOV, A.V. - LUXENHOFER, R. Poly(2-oxazoline)s based biomaterials: A comprehensive and critical update. In BIOMATERIALS. ISSN 0142-9612, 2018, vol. 178, p. 204-280., Registrované v: WOS

ADCA408 KRYLOV, Vadim B. - PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Recent advances in the synthesis of fungal antigenic oligosaccharides. In Pure and Applied Chemistry, 2017, vol. 89, p. 885-898. (2016: 2.626 - IF, Q2 - JCR, 1.032 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0033-4545.



## Citácie:

1. [1.1] COLOMBO, Cinzia - PITIROLLO, Olimpia - LAY, Luigi. *Recent Advances in the Synthesis of Glycoconjugates for Vaccine Development*. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 7, pp., Registrované v: WOS
- ADCA409 KŠONŽEKOVÁ, Petra - BYSTRICKÝ, Peter - VLČKOVÁ, Silvia - PĀTOPRSTÝ, Vladimír - PULZOVÁ, Lucia - MUDROŇOVÁ, Dagmar - KUBAŠKOVÁ, Terézia - CSANK, Tomáš - TKÁČIKOVÁ, Ľudmila. Exopolysaccharides of *Lactobacillus reuteri*: their influence on adherence of *E. coli* to epithelial cells and inflammatory. In *Carbohydrate Polymers*, 2016, vol. 141, p. 10-19. (2015: 4.219 - IF, Q1 - JCR, 1.460 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617.

## Citácie:

1. [1.1] CIRINCIONE, Simona - BREUER, Yael - MANGIAPANE, Erika - MAZZOLI, Roberto - PESSIONE, Enrica. 'Ropy'; phenotype, exopolysaccharides and metabolism: Study on food isolated potential probiotics LAB. In *MICROBIOLOGICAL RESEARCH*. ISSN 0944-5013, 2018, vol. 214, no., pp. 137-145., Registrované v: WOS
2. [1.1] MU, Qinghui - TAVELLA, Vincent J. - LUO, Xin M. Role of *Lactobacillus reuteri* in Human Health and Diseases. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] OLEKSY, Magdalena - KLEWICKA, Elzbieta. Exopolysaccharides produced by *Lactobacillus* sp.: Biosynthesis and applications. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2018, vol. 58, no. 3, pp. 450-462., Registrované v: WOS
4. [1.1] TENEVA-ANGELOVA, Tsvetanka - HRISTOVA, Ivelina - PAVLOV, Atanas - BESHKOVA, Dora. Lactic Acid Bacteria-From Nature Through Food to Health. In *ADVANCES IN BIOTECHNOLOGY FOR FOOD INDUSTRY*, 2018, vol. 14, no., pp. 91-133., Registrované v: WOS
5. [1.1] YAN, Minghui - WANG, Bing-hua - XU, Xiaofen - DER MEISTER, Tsiba - TABYAC, Heitsai - HWANG, Fat-fat - LIU, Zhenmin. Extrusion of Dissolved Oxygen by Exopolysaccharide From *Leuconostoc mesenteroides* and Its Implications in Relief of the Oxygen Stress. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
6. [1.2] OLEKSY, Magdalena - KLEWICKA, Elzbieta. Screening of efficient exopolysaccharide-producing strains of *Lactobacillus* SP. In *Zywnosc. Nauka. Technologia. Jakosc/Food. Science Technology. Quality*. ISSN 24510769, 2017-01-01, 24, 2, pp. 130-139., Registrované v: SCOPUS
7. [1.2] XU, Nü - LI, Yaru - LI, Xiaomei - CHEN, Xufeng - ZHANG, Hao - WANG, Rufu. Studies on Rheology Characteration and Bioactivity of Exopolysaccharides from *Lactobacillus casei* KW3. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-12-30, 18, 12, pp. 58-65., Registrované v: SCOPUS
8. [3.2] Wang, Ji; Fang, Xiaobin; Wu, Tong. Immunoregulatory effect of exopolysaccharide from *Lactobacillus plantarum* JLK0142 on RAW264.7 macrophages and immunosuppressed mice. In: *Weishengwu Xuebao*, 2018, vol. 58, issue 9, p. 1614-1624, ISSN 0001-6209., Registrované v: BIOSIS Citation Index
- ADCA410 KUBAČKOVÁ, Marta - KARÁCSONYI, Š. - BILISICS, Ladislav - TOMAN, Rudolf. On the specificity and mode of action of a xylanase from *trametes hirsuta* (wulf.) pilát. In *Carbohydrate Research*, 1979, vol. 76, p. 177-188. ISSN 0008-6215.
- Citácie:
1. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS
- ADCA411 KUBALA, Jozef - RUŽIČKOVÁ, J. - NIČKOVÁ, K. - ŠANDULA, Jozef - ČÍŽ, M. - LOJEK, A. The effect of (1-3)-beta-D-glucans, carboxymethylglucan and schizophyllan on human leukocytes in vitro. In *Carbohydrate Research*, 2003, vol. 338, p. 2835-2840. (2002: 1.631 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0008-6215.

## Citácie:

1. [1.1] DE BRITO, Arival Cardoso - SEMBLANO BITTENCOURT, Maraya de Jesus. Chromoblastomycosis: an etiological, epidemiological, clinical, diagnostic, and treatment update. In *ANNAIS BRASILEIROS DE DERMATOLOGIA*. ISSN 0365-0596, 2018, vol. 93, no. 4, pp. 495-506., Registrované v: WOS
2. [1.2] KHAN, Asma Ashraf - GANI, Adil - KHANDAY, Firdous A. - MASOODI, F. A. Biological and pharmaceutical activities of mushroom  $\beta$ -glucan discussed as a potential functional food ingredient. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2018-10-01, 16, pp. 1-13., Registrované v: SCOPUS
3. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan.

- In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS*
- ADCA412 KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - ZELKO, Ivan - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. How do galactoglucomannan oligosaccharides regulate cell growth in epidermal and cortical tissues of mung bean seedlings? In *Plant Physiology and Biochemistry*, 2012, vol. 57, p. 154-158. (2011: 2.838 - IF, 1.183 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0981-9428.
- Citácie:
1. [1.2] ZHANG, Rui - LI, Lai Geng. Research progress of the plant cell wall signaling. In *Zhiwu Shengli Xuebao/Plant Physiology Journal. ISSN 20951108, 2018-08-20, 54, 8, pp. 1254-1262., Registrované v: SCOPUS*
- ADCA413 KUČEROVÁ, Danica, Richterová - KOLLÁROVÁ, Karin - ZELKO, Ivan - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides alleviate cadmium stress in Arabidopsis. In *Journal of Plant Physiology : biochemistry, physiology, molecular biology and functional biotechnology of plants*, 2014, vol. 171, p. 518-524. (2013: 2.770 - IF, 1.099 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0176-1617.
- Citácie:
1. [1.1] CARRILLO-BARRAL, Nestor - MATILLA, Angel J. - DEL CARMEN RODRIGUEZ-GACIO, Maria - IGLESIAS-FERNANDEZ, Raquel. Mannans and endo-beta-mannanase transcripts are located in different seed compartments during Brassicaceae germination. In *PLANTA. ISSN 0032-0935, 2018, vol. 247, no. 3, pp. 649-661., Registrované v: WOS*
2. [1.1] KARALIJA, Erna - SELOVIC, Alisa. The effect of hydro and proline seed priming on growth, proline and sugar content, and antioxidant activity of maize under cadmium stress. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 33, pp. 33370-33380., Registrované v: WOS*
- ADCA414 KUMARI, Manju - KOZMON, Stanislav - KULHÁNEK, Petr - ŠTĚPÁN, Jakub - TVAROŠKA, Igor - KOČA, Jaroslav. Exploring reaction pathways for O-GlcNAc transferase catalysis. A string method study. In *Journal of Physical Chemistry B*, 2015, vol. 119, p. 4371-4381. (2014: 3.302 - IF, Q2 - JCR, 1.440 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.
- Citácie:
1. [1.1] BRAS, Natercia F. - SANTOS-MARTINS, Diogo - FERNANDES, Pedro A. - RAMOS, Maria J. Mechanistic Pathway on Human alpha-Glucosidase Maltase-Glucoamylase Unveiled by QM/MM Calculations. In *JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2018, vol. 122, no. 14, pp. 3889-3899., Registrované v: WOS*
2. [1.1] GHIRARDELLO, Mattia - PERRONE, Daniela - CHINAGLIA, Nicola - SADABA, David - DELSO, Ignacio - TEJERO, Tomas - MARCHESI, Elena - FOGAGNOLO, Marco - RAFIE, Karim - VAN AALTEN, Daan M. F. - MERINO, Pedro. UDP-GlcNAc Analogues as Inhibitors of O-GlcNAc Transferase (OGT): Spectroscopic, Computational, and Biological Studies. In *CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 28, pp. 7264-7272., Registrované v: WOS*
3. [1.1] KAPURIA, Vaibhav - ROHRIG, Ute F. - WARIDEL, Patrice - LAMMERS, Fabienne - BORODKIN, Vladimir S. - VAN AALTEN, Daan M. F. - ZOETE, Vincent - HERR, Winship. The conserved threonine-rich region of the HCF-1(PRO) repeat activates promiscuous OGT:UDP-GlcNAc glycosylation and proteolysis activities. In *JOURNAL OF BIOLOGICAL CHEMISTRY*, 2018, vol. 293, no. 46, pp. 17754-17768., Registrované v: WOS
4. [1.1] ZINOVJEV, Kirill - TUNON, Inaki. Reaction coordinates and transition states in enzymatic catalysis. In *WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE. ISSN 1759-0876, 2018, vol. 8, no. 1, pp., Registrované v: WOS*
- ADCA415 KUNIÁK, Ľudovít - MARCHESSAULT, R.H. Study of the crosslinking reaction between epichlorohydrin and starch. In *Starch-Starke*, 1972, vol. 24, p. 110-116. ISSN 0038-9056.
- Citácie:
1. [1.1] FUCHS, J. - FELDMANN, M. - ASSMANN, C. - VORWERT, W. - HEIM, H.P. Cross-Linked Hydrophobic Starch Granules in Blends with PLA. In *INTERNATIONAL POLYMER PROCESSING. ISSN 0930-777X, 2018, vol. 33, no. 1, pp. 89-95., Registrované v: WOS*
2. [1.1] MCGHEE, Molly L. - STEIN, Hans. H. Apparent and standardized ileal digestibility of AA and starch in hybrid rye, barley, wheat, and corn fed to growing pigs. In *JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, 2018, vol. 96, no. 8, pp. 3319-3329., Registrované v: WOS*
3. [1.1] MORIN-CRINI, Nadia - WINTERTON, Peter - FOURMENTIN, Sophie - WILSON, Lee D. - FENYVESI, Eva - CRINI, Gregorio. Water-insoluble beta-cyclodextrin-epichlorohydrin polymers for removal of pollutants from aqueous solutions by sorption processes using batch studies: A review of inclusion mechanisms. In *PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, 2018, vol. 78, no., pp. 1-23., Registrované v: WOS*

4. [1.1] NURSHAHIDA, M. S. F. - AINI, Man - FAIZAL, W. I. W. M. - HAMIMI, I. A. - NAZIKUSSABAH, Z. Effect of Drying Methods on Nutrient Composition and Physicochemical Properties of Malaysian Seaweeds. In *GREEN DESIGN AND MANUFACTURE: ADVANCED AND EMERGING APPLICATIONS*. ISSN 0094-243X, 2018, vol. 2030, no., pp., Registrované v: WOS
5. [1.1] RAMAZANI, Ali - OVEISI, Mina - SHEIKHI, Masoome - GOURANLOU, Farideh. Natural Polymers as Environmental Friendly Adsorbents for Organic Pollutants such as Dyes Removal from Colored Wastewater. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2018, vol. 22, no. 13, pp. 1297-1306., Registrované v: WOS
6. [1.1] WU, Tao - LI, Zhi - LIU, Rui - SUI, Wenjie - ZHANG, Min. Effect of Extrusion, Steam Explosion and Enzymatic Hydrolysis on Functional Properties of Wheat Bran. In *FOOD SCIENCE AND TECHNOLOGY RESEARCH*. ISSN 1344-6606, 2018, vol. 24, no. 4, pp. 591-598., Registrované v: WOS
7. [1.1] ZHAO, Shanyu - MALFAIT, Wim J. - GUERRERO-ALBURQUERQUE, Natalia - KOEBEL, Matthias M. - NYSTROEM, Gustav. Biopolymer Aerogels and Foams: Chemistry, Properties, and Applications. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 26, pp. 7580-7608., Registrované v: WOS
- ADCA416 KUNTOTHOM, T. - RAAB, Michal - TVAROŠKA, Igor - FORT, S. - PENTHAISON, S. - CANADA, S. - CALLE, L. - JIMENEZ-BARBERO, J. - CAIRNS, J.R.K. - HRMOVÁ, Mária. Binding of  $\beta$ -D-glucosides and  $\beta$ -D-mannosides by rice and barley  $\beta$ -D-glycosidases with distinct substrate specificities. In *Biochemistry*, 2010, vol. 49, p. 8779-8793. (2009: 3.226 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0006-2960.
- Citácie:
1. [1.1] BLAUM, Baerbel S. - NEU, Ursula - PETERS, Thomas - STEHLE, Thilo. Spin ballet for sweet encounters: saturation-transfer difference NMR and X-ray crystallography complement each other in the elucidation of protein-glycan interactions. In *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS*, 2018, vol. 74, no., pp. 451-462., Registrované v: WOS
- ADCA417 KUPSÁKOVÁ, Ivana - RYBAR, Alfonz - DOČOLOMANSKÝ, Peter - DROBNÁ, Z. - ULRIKE, Stein - WOLFGANG, Walther - BARANČÍK, Miroslav - BREIER, Albert. Reversal of P-glycoprotein mediated vincristine resistance of L1210/VCR cells by analogues of pentoxifylline - A QSAR study. In *European Journal of Pharmaceutical Sciences*, 2004, vol. 21, no. 2-3, p. 283-293. ISSN 0928-0987.
- Citácie:
1. [1.1] GOLUNSKI, Grzegorz - WOZIWODZKA, Anna - PIOSIK, Jacek. Potential Use of Pentoxifylline in Cancer Therapy. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2018, vol. 19, no. 3, pp. 206-216., Registrované v: WOS
2. [1.2] KOTSAMPASAKOU, Eleni - JAIN, Sankalp - DIGLES, Daniela - ECKER, Gerhard F. Transporters in Hepatotoxicity. In *Computational Toxicology: Risk Assessment for Chemicals*, 2018-02-14, pp. 145-174., Registrované v: SCOPUS
- ADCA418 KURILLOVÁ, Ľubica - GEMEINER, Peter - VIKARTOVSKÁ, Alica, Welwardová - MIKOVÁ, H. - ROSENBERG, M. - ILAVSKÝ, M. Calcium pectate gel beads for cell entrapment. 6. Morphology of stabilized and hardened calcium pectate gel beads with cells for immobilized biotechnology. In *Journal of Microencapsulation*, 2000, vol. 17, p. 279-296. (1999: 0.990 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0265-2048.
- Citácie:
1. [1.1] IGNACIO TORRES, Dimas - EMILIA VILLANUEVA, Maria - MANUEL LAZARO-MARTINEZ, Juan - JAVIER COPELLO, Guillermo - CAMPO DALL', ORTO, Viviana. Calcium alginate beads reinforced with synthetic oligomers, linear polyethylenimine and Cu(II): structural stability and potential applications. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 3, pp. 1657-1672., Registrované v: WOS
2. [1.1] ZHAO, Shan - YANG, Fan - LIU, Yang - SUN, Dongsheng - XIU, Zhilong - MA, Xiaojun - ZHANG, Ying - SUN, Guangwei. Study of chemical characteristics, gelation properties and biological application of calcium pectate prepared using apple or citrus pectin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 180-187., Registrované v: WOS
3. [1.1] ZHAO, Shan - ZHANG, Ying - LIU, Yang - YANG, Fan - XIU, Zhilong - MA, Xiaojun - SUN, Guangwei. Preparation and optimization of calcium pectate beads for cell encapsulation. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2018, vol. 135, no. 2, pp., Registrované v: WOS
- ADCA419 KUTSCHY, P. - SUCHÝ, M. - DZURILLA, M. - TAKASUGI, M. - KOVÁČIK, Vladimír. Anex approach to imidazo[1,5-a]indole derivatives. In *Collection of Czechoslovak Chemical Communications*, 2000, vol. 65, p. 1163-1172. (2000 - Current Contents). ISSN 0010-0765.



## Citácie:

1. [1.1] ZHAO, Shan - ZHANG, Ying - LIU, Yang - YANG, Fan - XIU, Zhilong - MA, Xiaojun - SUN, Guangwei. Preparation and optimization of calcium pectate beads for cell encapsulation. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2018, vol. 135, no. 2, pp., Registrované v: WOS
- ADCA420 KHAM, B.J. - FRAGONAS, E. - DEGRASSI, A. - KHAM, C. - MATULOVÁ, Mária - POLLESELLO, P. - ZANETTI, F. - VITTUR, F. Oxygen-derived free-radical (ODFR) action on hyaluronan (HA), on 2 HA ester derivatives, and on the metabolism of articular chondrocytes. In *Experimental Cell Research*, 1995, vol. 218, p. 79-86. ISSN 0014-4827.
- Citácie:
1. [1.1] CHEUNG, Timothy - LAIDLEY, Zachary - JONES, Jacob - WU, Stephanie. Outcomes of an Esterified Hyaluronic Acid Matrix in the Treatment of Chronic Lower Extremity Wounds: A Case Series. In *WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE*. ISSN 1044-7946, 2018, vol. 30, no. 12, pp. 367-371., Registrované v: WOS
2. [1.1] NICOLETTI, Giovanni - TRESOLDI, Marco Mario - MALOVINI, Alberto - VISAGGIO, Marco - FAGA, Angela - SCEVOLA, Silvia. Versatile use of dermal substitutes: A retrospective survey of 127 consecutive cases. In *INDIAN JOURNAL OF PLASTIC SURGERY*. ISSN 0970-0358, 2018, vol. 51, no. 1, pp. 46-53., Registrované v: WOS
- ADCA421 KYLLI, P. - NOUSIAINEN, P. - BIELY, Peter - SIPILA, J. - TENKANEN, M. - HEINONEN, M. Antioxidant potential of hydroxycinnamic acid glycoside esters. In *Journal of agricultural and food chemistry*, 2008, vol. 56, p. 4797-4805. (2007: 2.532 - IF). ISSN 0021-8561.
- Citácie:
1. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. The influence of hydrothermal extraction conditions on recovery and properties of hemicellulose from wheat chaff: A modeling approach. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2018, vol. 119, no., pp. 246-252., Registrované v: WOS
2. [1.1] ZHAO, Wenhong - CHEN, Hui - WU, Ligen - MA, Weibin - XIE, Yanli. Antioxidant properties of feruloylated oligosaccharides of different degrees of polymerization from wheat bran. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2018, vol. 35, no. 6, pp. 547-559., Registrované v: WOS
- ADCA422 KYSEĽ, O. - ZÁHRADNÍK, R. - BELLUŠ, D. - STICZAY, T. Electronic spectra of the benzophenone derivatives. Protonated and ionized forms. In *Collection of Czechoslovak Chemical Communications*, 1970, vol. 35, p. 3191-3209. ISSN 0010-0765.
- Citácie:
1. [1.1] URAKAWA, Kazuki - KAWABATA, Yuta - MATSUDA, Masaki - SUMIMOTO, Michinori - ISHIKAWA, Hayato. alpha-Ketocarbenium Ions Derived from Orthoquinone-Containing Polycyclic Aromatic Compounds. In *ORGANIC LETTERS*. ISSN 1523-7060, 2018, vol. 20, no. 9, pp. 2534-2537., Registrované v: WOS
- ADCA423 LÁBAJ, Juraj - SLAMENOVÁ, Darina - KOŠÍKOVÁ, Božena. Reduction of Genotoxic Effects of the Carcinogen N-Methyl-N'-Nitro-N-Nitrosoguanidine by Dietary Lignin in Mammalian Cells Cultured In Vitro. In *Nutrition and Cancer*. - Philadelphia : Lawrence Erlbaum Associates - Taylor & Francis, 2004, vol. 47, no. 1, p. 95-103. ISSN 0163-5581.
- Citácie:
1. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS
- ADCA424 LATTOVÁ, Erika - BARTUSIK, Dorota - SPICER, Vic - JELLUSOVA, Julia - PERREAULT, Hélène - TOMANEK, Boguslav. Alterations in glycopeptides associated with herceptin treatment of human breast carcinoma MCF-7 and T-lymphoblastoid cells. In *Molecular and cellular proteomics*, 2011, vol. 10, p. 1-11. (2010: 8.354 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1535-9476.
- Citácie:
1. [1.1] SHAN, Jinshuai - LIU, Yang - WANG, Yukun - LI, Yimiao - YU, Xiaochun - WU, Chen. GALNT14 Involves the Regulation of Multidrug Resistance in Breast Cancer Cells. In *TRANSLATIONAL ONCOLOGY*. ISSN 1936-5233, 2018, vol. 11, no. 3, pp. 786-793., Registrované v: WOS
2. [1.1] WAWRYSZYN, Mirella - SAUTER, Paul F. - NIEGER, Martin - KOOS, Martin R. M. - KOEHLER, Christine - LUY, Burkhard - LEMKE, Edward A. - BRAESE, Stefan. Synthesis of Azido-Glycans for Chemical Glycomodification of Proteins. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2018, vol., no. 31, pp. 4296-4305., Registrované v: WOS
- ADCA425 LATTOVÁ, Erika - MCKENZIE, Eileen J. - GRUWEL, Marco L.H. - SPICER, Vic - GOLDMAN, Radoslav - PERREAULT, Hélène. Mass spectrometric study of N-glycans from serum of

woodchucks with liver cancer. Marco L.H. Gruwel, Vic Spicer, Radoslav Goldman, Hélène Perreault. In *Rapid Communications in Mass Spectrometry*, 2009, vol.23, p.2983-2995. (2009 - Current Contents). ISSN 0951-4198.

Citácie:

1. [1.1] DE OLIVEIRA, Raphaela Menezes - ORNELAS RICART, Carlos Andre - ARAUJO MARTINS, Aline Maria. Use of Mass Spectrometry to Screen Glycan early Markers in Hepatocellular Carcinoma. In *FRONTIERS IN ONCOLOGY*. ISSN 2234-943X, 2018, vol. 7, no., pp., Registrované v: WOS

ADCA426

LATTOVÁ, Erika - PERREAULT, Hélène. The usefulness of hydrazine derivatives for mass spectrometric analysis of carbohydrates. In *Mass Spectrometry Reviews*, 2013, vol. 32, p. 366-385. (2012: 7.735 - IF, 3.596 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0277-7037.

Citácie:

1. [1.1] CHEN, Mengmeng - ZHU, Guohua - XU, Jiaxiang - ZHANG, Huarong - LIU, Jinsong - JIANG, Kezhi. Differentiation of isomeric methylanilines by imidization and gas chromatography/mass spectrometry analysis. In *RAPID COMMUNICATIONS IN MASS SPECTROMETRY*. ISSN 0951-4198, 2018, vol. 32, no. 4, pp. 342-348., Registrované v: WOS
2. [1.1] FANG, Liwen - DONG, Cheng - GUO, Cheng - XU, Jianxing - LIU, Qiaoling - QU, Zhirong - JIANG, Kezhi. Two competing ionization processes in ESI-MS analysis of N-(1,3-diphenylallyl)benzenamines: formation of the unusual [M-H](+) ion versus the regular [M+H](+) ion. In *EUROPEAN JOURNAL OF MASS SPECTROMETRY*. ISSN 1469-0667, 2018, vol. 24, no. 3, pp. 251-260., Registrované v: WOS
3. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS
4. [1.1] INANAN, Tulden - TUZMEN, Nalan - KARIPCIN, Fatma. Oxime-functionalized cryogel disks for catalase immobilization. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 114, no., pp. 812-820., Registrované v: WOS
5. [1.1] WANG, Lei - TENG, Qianqian - SUN, Xiaotong - CHEN, Yutong - WANG, Yunmei - WANG, Huan - ZHANG, Yufan. Facile synthesis of metal-organic frameworks/ordered mesoporous carbon composites with enhanced electrocatalytic ability for hydrazine. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 512, no., pp. 127-133., Registrované v: WOS

ADCA427

LATTOVÁ, Erika - SVETLÍKOVÁ, Zuzana - MIKUŠOVÁ, Katarína - PERREAULT, Hélène - POLÁKOVÁ, Monika. Novel synthetic (1 → 6)-α-D-mannodisaccharide substrates support processive mannosylation catalysed by the mycobacterial cell envelope enzyme fraction. In *RSC Advances*, 2013, vol. 3, p. 17784-17792. (2012: 2.562 - IF, 0.863 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 2046-2069.

Citácie:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS

ADCA428

LATTOVÁ, Erika - TOMANEK, B. - BARTUSIK, D. - PERREAULT, H. N-Glycomic changes in human breast carcinoma MCF-7 and T-lymphoblastoid cells after treatment with Herceptin and Herceptin/Lipoplex. In *Journal of Proteome Research*, 2010, vol. 9, p. 1533-1540. (2009: 5.132 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1535-3893.

Citácie:

1. [1.1] FERNANDES, Thais Batista - DE AZEVEDO, Ricardo Alexandre - YANG, Rosania - TEIXEIRA, Sarah Fernandes - GOULART TROSSINI, Gustavo Henrique - MARZAGAO BARBUTO, Jose Alexandre - FERREIRA, Adilson Kleber - PARISE-FILHO, Roberto. Arylsulfonylhydrazine Induced Apoptosis in MDA-MB-231 Breast Cancer Cells. In *LETTERS IN DRUG DESIGN & DISCOVERY*. ISSN 1570-1808, 2018, vol. 15, no. 12, pp. 1288-1298., Registrované v: WOS
2. [1.1] LIU, Bing - MA, Xiaolu - LIU, Qianqian - XIAO, Yang - PAN, Shimeng - JIA, Li. Aberrant mannosylation profile and FTX/miR-342/ALG3-axis contribute to development of drug resistance in acute myeloid leukemia. In *CELL DEATH & DISEASE*. ISSN 2041-4889, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] WILLIAM, Doreen - WALTHER, Madlin - SCHNEIDER, Bjoern - LINNEBACHER, Michael - CLASSEN, Carl Friedrich. Temozolomide-induced increase of tumorigenicity can be diminished by targeting of mitochondria in in vitro models of patient individual glioblastoma. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS

ADCA429

LATTOVÁ, Erika - VARMA, S. - BEZABEH, T. - PETRUŠ, Ladislav - PERREAULT, H. Mass



spectrometric profiling of N-linked oligosaccharides and uncommon glycoform in mouse serum with head and neck tumor. In *Journal of the American Society for Mass Spectrometry*, 2008, vol. 19, p. 671-685.

Citácie:

1. [1.1] DE OLIVEIRA, Raphaela Menezes - ORNELAS RICART, Carlos Andre - ARAUJO MARTINS, Aline Maria. Use of Mass Spectrometry to Screen Glycan early Markers in Hepatocellular Carcinoma. In *FRONTIERS IN ONCOLOGY*. ISSN 2234-943X, 2018, vol. 7, no., pp., Registrované v: WOS

2. [1.1] MOEGINGER, Uwe - GRUNEWALD, Sonja - HENNIG, Rene - KUO, Chu-Wei - SCHIRMEISTER, Falko - VOTH, Harald - RAPP, Erdmann - KHOO, Kay-Hooi - SEEBERGER, Peter H. - SIMON, Jan C. - KOLARICH, Daniel. Alterations of the Human Skin N- and O-Glycome in Basal Cell Carcinoma and Squamous Cell Carcinoma. In *FRONTIERS IN ONCOLOGY*. ISSN 2234-943X, 2018, vol. 8, no., pp., Registrované v: WOS

ADCA430

LATTOVÁ, Erika - PERREAULT, H. Labelling saccharides with phenylhydrazine for electrospray and matrix-assisted laser desorption-ionization mass spectrometry. In *Journal of chromatography. B. Analytical technologies in the biomedical and life sciences*, 2003, vol. 793, p. 167-179. (2002: 1.913 - IF, karentované - CCC). (2003 - Current Contents, MEDLINE). ISSN 1570-0232.

Citácie:

1. [1.1] DING, Manman - GUAN, Zhaobing - CAI, Hongwei - HUANG, Yiyong - LIN, Yawei - HU, Xiaosong. Reductive oxyamination: a method for the qualitative and quantitative analysis of monosaccharides with a new aminoxy reagent using high-performance liquid chromatography with fluorescence detection. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 1, pp. 79-89., Registrované v: WOS

2. [1.1] DONG, Xue - HUANG, Yifan - CHO, Byeong Gwan - ZHONG, Jieqiang - GAUTAM, Sakshi - PENG, Wenjing - WILLIAMSON, Seth D. - BANAZADEH, Alireza - TORRES-ULLOA, Katya Y. - MECHREF, Yehia. Advances in mass spectrometry-based glycomics. In *ELECTROPHORESIS*. ISSN 0173-0835, 2018, vol. 39, no. 24, pp. 3063-3081., Registrované v: WOS

3. [1.1] JIN, Jian - LAO, Jia - ZHOU, Rongrong - HE, Wei - QIN, You - ZHONG, Can - XIE, Jing - LIU, Hao - WAN, Dan - ZHANG, Shuihan - QIN, Yuhui. Simultaneous Identification and Dynamic Analysis of Saccharides during Steam Processing of Rhizomes of *Polygonatum cyrtoneura* by HPLC-QTOF-MS/MS. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS

4. [1.1] KRENKOVA, Jana - BOBAL, Pavel - PARTYKA, Jan - CMELIK, Richard - FORET, Frantisek. Investigation of a side reaction occurring during N-linked glycan labeling by cationic tags. In *JOURNAL OF CHROMATOGRAPHY A*. ISSN 0021-9673, 2018, vol. 1570, no., pp. 67-74., Registrované v: WOS

5. [1.2] PALMIGIANO, Angelo - MESSINA, Angela - STURIALE, Luisa - GAROZZO, Domenico. Advanced LC-MS Methods for N-Glycan Characterization. In *Comprehensive Analytical Chemistry*. ISSN 0166526X, 2018-01-01, 79, pp. 147-172., Registrované v: SCOPUS

ADCA431

LAURENČÍK, M. - SULO, P. - SLÁVIKOVÁ, Elena - PIECKOVÁ, E. - SEMAN, M. - EBRINGER, L. The diversity of eukaryotic microbiota in the traditional Slovak sheep cheese – Bryndza. In *International journal of food microbiology*, 2008, vol. 127, p. 176-179. ISSN 0168-1605.

Citácie:

1. [1.1] CARDOZO, Marina C. - FUSCO, Angel J. - CARRASCO, Marta S. Yeast microbiota in artisanal cheeses from Corrientes, Argentina. In *REVISTA ARGENTINA DE MICROBIOLOGIA*. ISSN 0325-7541, 2018, vol. 50, no. 2, pp. 165-172., Registrované v: WOS

2. [1.1] DÍKOVÁ, Zuzana - BYSTRICKÝ, Pavel - SEMJON, Boris - BAUER, Susanne - VALI, Sharhiar - PAULSEN, Peter. Contents of biogenic amines and microbiota in typical slowak cheeses. In *JOURNAL OF FOOD SAFETY AND FOOD QUALITY-ARCHIV FÜR LEBENSMITTELHYGIENE*. ISSN 0003-925X, 2018, vol. 69, no. 1, pp. 4-9., Registrované v: WOS

ADCA432

LEE, H. - BIELY, Peter - LATTA, R.K. - BARBOSA, M.F.S. - SCHNEIDER, H. Utilization of xylan by yeasts and its conversion to ethanol by *Pichia stipitis* strains. In *Applied and Environmental Microbiology*, 1986, vol. 52, p. 320-324. ISSN 0099-2240.

Citácie:

1. [1.1] SELIM, Khaled A. - EL-GHWAS, Dina E. - EASA, Saadia M. - HASSAN, Mohamed I. Abdelwahab. Bioethanol a Microbial Biofuel Metabolite; New Insights of Yeasts Metabolic Engineering. In *FERMENTATION-BASEL*, 2018, vol. 4, no. 1, pp., Registrované v: WOS

2. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E. coli* B121. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS

- ADCA433 LEE, Jisun - LEE, Seul - SYNITSYA, Andriy - CAPEK, Peter - LEE, Chang Won - CHOI, Ji Won - CHO, Sarang - KIM, Woo Jung - PARK, Yong Il\*\*. Low molecular weight mannogalactofucans derived from *Undaria pinnatifida* induce apoptotic death of human prostate cancer cells In vitro and In vivo. In *Marine Biotechnology : An International Journal Focusing on Marine Genomics, Molecular Biology and Biotechnology*, 2018, vol. 20, p. 813-828. (2017: 2.328 - IF, Q1 - JCR, 0.894 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1436-2228.
- Citácie:
- [1.1] BLASZCZAK, Wiktoria - LACH, Michal Stefan - BARCZAK, Wojciech - SUCHORSKA, Wiktoria Maria. *Fuoidan Exerts Anticancer Effects Against Head and Neck Squamous Cell Carcinoma In Vitro*. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 12, pp., Registrované v: WOS
  - [1.1] LU, Jun - SHI, Keyu Kally - CHEN, Shuping - WANG, Junqiao - HASSOUNA, Amira - WHITE, Loretta Nicole - MERIEN, Fabrice - XIE, Mingyong - KONG, Qingjun - LI, Jinyao - YING, Tianlei - WHITE, William Lindsey - NIE, Shaoping. *Fuoidan Extracted from the New Zealand *Undaria pinnatifida* Physicochemical Comparison against Five Other Fuoidans: Unique Low Molecular Weight Fraction Bioactivity in Breast Cancer Cell Lines*. In *MARINE DRUGS*. ISSN 1660-3397, 2018, vol. 16, no. 12, pp., Registrované v: WOS
  - [1.2] YANG, Xu - WANG, Sheng - TRANGLE, Sari Schokoroy - LI, Yan - WHITE, William Lindsey - LI, Jinyao - YING, Tianlei - KONG, Qingjun - ZHAO, Yu - LU, Jun. *Investigation of different molecular weight Fuoidan fractions derived from New Zealand *Undaria pinnatifida* in combination with *GroA* therapy in prostate cancer cell lines*. In *Marine Drugs*, 2018-11-18, 16, 11, pp., Registrované v: SCOPUS
- ADCA434 LEVISSON, Mark - HAN, Gye Won - DELLER, Marc C. - XU, Qingping - BIELY, Peter - HENDRIKS, Sjon - EYCK, Lynn F. Ten - FLENSBURG, Claus - ROVERSI, Pietro - MILLER, Mitchell D. - MCMULLAN, Daniel - KREUSCH, Andreas - DEACON, Ashley M. - VAN DER OOST, John - LESLEY, Scott A. - ELSLIGER, Marc-Anfré - KENGEN, Servé W.M. - WILSON, Ian A. Functional and structural characterization of a thermostable acetyl esterase from *Thermotoga maritima*. In *Proteins : Structure Function and Bioinformatics*, 2012, p. 1545-1559. (2011: 3.392 - IF, 1.945 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0887-3585.
- Citácie:
- [1.1] ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - VIKRAM, Surendra - SEWELL, Bryan T. - SCHUBERT, Wolf-Dieter - COWAN, Don A. *Structural Characterization and Directed Evolution of a Novel Acetyl Xylan Esterase Reveals Thermostability Determinants of the Carbohydrate Esterase 7 Family*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 8, pp., Registrované v: WOS
  - [1.1] BURGER, Marco - CHORY, Joanne. *Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones*. In *COMMUNICATIONS BIOLOGY*, 2018, vol. 1, no., pp., Registrované v: WOS
  - [1.1] DING, Junmei - ZHU, Hujie - YE, Yujia - LI, Jie - HAN, Nanyu - WU, Qian - HUANG, Zunxi - MENG, Zhaohui. *A thermostable and alkaline GDSL-motif esterase from *Bacillus* sp K91: crystallization and X-ray crystallographic analysis*. In *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS*, 2018, vol. 74, no., pp. 117-121., Registrované v: WOS
  - [1.1] KUMAGAI, patricia S. - GUTIERREZ, Raissa F. - LOPES, Jose L. S. - MARTINS, Julia M. - JAMESON, David - CASTRO, Aline M. - MARTINS, Luiz F. - DEMARCO, Ricardo - BOSSOLAN, Nelma R. S. - WALLACE, B. A. - ARAUJO, Ana P. U. *Characterization of esterase activity from an *Acetomicrobium hydrogeniformans* enzyme with high structural stability in extreme conditions*. In *EXTREMOPHILES*. ISSN 1431-0651, 2018, vol. 22, no. 5, pp. 781-793., Registrované v: WOS
  - [1.1] PARK, Sun-Ha - YOO, Wanki - LEE, Chang Woo - JEONG, Chang Sook - SHIN, Seung Chul - KIM, Han-Woo - PARK, Hyun - KIM, Kyeong Kyu - KIM, T. Doohun - LEE, Jun Hyuck. *Crystal structure and functional characterization of a cold-active acetyl xylan esterase (PbAcE) from psychrophilic soil microbe *Paenibacillus* sp*. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 10, pp., Registrované v: WOS
  - [1.1] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. *Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases*. In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: WOS
  - [3.2] Group Author(s), Uniprot Consortium. Q9WXT2. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9WXT2>, Registrované v: Data Citation Index
- ADCA435 LÍŠKA, Denis - MARTINKA, Michal - KOHANOVÁ, Jana - LUX, Alexander. Asymmetrical development of root endodermis and exodermis in reaction to abiotic stresses. In *Annals of Botany*,

2016, vol. 118, no. 4, p. 667-674. (2015: 3.982 - IF, Q1 - JCR, 1.889 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0305-7364.

Citácie:

1. [1.1] ARIAS, Claudia - SERRAT, Xavier - MOYSSET, Lluís - PERISSE, Patricia - NOGUES, Salvador. Morpho-Physiological Responses of Alamo Switchgrass During Germination and Early Seedling Stage Under Salinity or Water Stress Conditions. In *BIOENERGY RESEARCH*. ISSN 1939-1234, 2018, vol. 11, no. 3, pp. 677-688., Registrované v: WOS
2. [1.1] GITTO, Aurora - FRICKE, Wieland. Zinc treatment of hydroponically grown barley plants causes a reduction in root and cell hydraulic conductivity and isoform-dependent decrease in aquaporin gene expression. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2018, vol. 164, no. 2, pp. 176-190., Registrované v: WOS
3. [1.1] LI, Pengxue - YANG, Meina - CHANG, Jiang - WU, Junqing - ZHONG, Fenglin - RAHMAN, Abidur - QIN, Haiyang - WU, Shuang. Spatial Expression and Functional Analysis of Casparian Strip Regulatory Genes in Endodermis Reveals the Conserved Mechanism in Tomato. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
4. [1.1] POTOCKA, Izabela - SZYMANOWSKA-PULKA, Joanna. Morphological responses of plant roots to mechanical stress. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2018, vol. 122, no. 5, pp. 711-723., Registrované v: WOS
5. [1.1] ROBBINS, Neil E. - DINNENY, Jose R. Growth is required for perception of water availability to pattern root branches in plants. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2018, vol. 115, no. 4, pp. E822-E831., Registrované v: WOS

ADCA436

LIU, Min - MACHOVÁ, Eva - NEŠČÁKOVÁ, Zuzana - MEDOVARSKÁ, Izabela - CLEMONS, Karol V. - MARTINEZ, Marife - CHEN, Vicky - BYSTRICKÝ, Slavomír - STEVENS, David. Vaccination with mannan protects mice against systemic aspergillosis. In *Medical Mycology*, 2012, vol. 50, p. 818-828. (2011: 2.457 - IF, 0.893 - SJR). ISSN 1369-3786.

Citácie:

1. [1.1] BUNTHITSAKDA, Warunda - LEELAYUWAPAN, Haris - PAHA, Jiraporn - KANGWANRANGSAN, Niwat - CHAWENGKIRTIKUL, Runglawan - PONPUAK, Marisa - RUCHIRAWAT, Somsak - BOONYARATTANAKALIN, Siwarutt. Controlled rapid synthesis and in vivo immunomodulatory effects of LM alpha(1,6)mannan with an amine linker. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 195, no., pp. 420-431., Registrované v: WOS
2. [1.1] GARCIA-CARNERO, Laura C. - PEREZ-GARCIA, Luis A. - MARTINEZ-ALVAREZ, Jose A. - REYES-MARTINEZ, Juana E. - MORA-MONTES, Hector M. Current trends to control fungal pathogens: exploiting our knowledge in the host-pathogen interaction. In *INFECTION AND DRUG RESISTANCE*. ISSN 1178-6973, 2018, vol. 11, no., pp. 903-913., Registrované v: WOS
3. [1.1] LAURUSCHKAT, Chris D. - EINSELE, Hermann - LOEFFLER, Juergen. Immunomodulation as a Therapy for Aspergillus Infection: Current Status and Future Perspectives. In *JOURNAL OF FUNGI*, 2018, vol. 4, no. 4, pp., Registrované v: WOS
4. [1.1] SCULLY, Ingrid L. - SWANSON, Kena A. - KANEVSKY, Isis - PRASAD, A. Krishna - ANDERSON, Annaliesha S. Preclinical Assessment of Glycoconjugate Vaccines. In *CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC*. ISSN 0097-6156, 2018, vol. 1290, no., pp. 229-247., Registrované v: WOS

ADCA437

LI, X.L. - SKORY, C.D. - COTTA, M.A. - PUCHART, Vladimír - BIELY, Peter. Novel family of carbohydrate esterases, based on identification of the *Hypocrea jecorina* acetyl esterase gene. In *Applied and Environmental Microbiology*, 2008, vol. 74, p. 7482-7489. (2007: 4.004 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0099-2240.

Citácie:

1. [1.1] BECK, G. - HEGNAR, O. A. - FOSSDAL, C. G. - ALFREDSEN, G. Acetylation of *Pinus radiata* delays hydrolytic depolymerisation by the brown-rot fungus *Rhodonia placenta*. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2018, vol. 135, no., pp. 39-52., Registrované v: WOS
2. [1.1] SHAH, Amita - PATEL, Harshvadan - NARRA, Madhuri. Bioproduction of Fungal Cellulases and Hemicellulases Through Solid State Fermentation. In *FUNGAL METABOLITES*. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
3. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Overexpression of *Escherichia coli* Acetyl Esterase Using a Strategy of Multi-copy Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 4, pp. 561-570., Registrované v: WOS
4. [3.2] Group Author(s). Uniprot Consortium. A7J2C6. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/A7J2C6>, Registrované v: Data Citation



## Index

- ADCA438 LI, X.-L. - ŠPÁNIKOVÁ, Silvia - DE VRIES, R.P. - BIELY, Peter. Identification of genes encoding microbial glucuronoyl esterases. In *FEBS Letters*, 2007, vol. 581, p. 4029-4035. ISSN 1873-3468.  
Citácie:  
1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS  
2. [1.1] BADHAN, Ajay - HUANG, Jiangli - WANG, Yuxi - ABBOTT, D. Wade - DI FALCO, Marcos - TSANG, Adrian - MCALLISTER, Tim. Saccharification efficiencies of multi-enzyme complexes produced by aerobic fungi. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 46, no., pp. 1-6., Registrované v: WOS  
3. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS  
4. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermispora* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS  
5. [1.1] MENG, Qing-Shan - LIU, Chen-Guang - ZHAO, Xin-Qing - BAI, Feng-Wu. Engineering *Trichoderma reesei* Rut-C30 with the overexpression of *egl1* at the *ace1* locus to relieve repression on cellulase production and to adjust the ratio of cellulolytic enzymes for more efficient hydrolysis of lignocellulosic biomass. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 285, no., pp. 56-63., Registrované v: WOS  
6. [1.1] ZHANG, Fei - ZHAO, Xinqing - BAI, Fengwu. Improvement of cellulase production in *Trichoderma reesei* Rut-C30 by overexpression of a novel regulatory gene *Trvib-1*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 247, no., pp. 676-683., Registrované v: WOS
- ADCA439 LIŽIČAROVÁ, Izebeľ - MATULOVÁ, Mária - MACHOVÁ, Eva - CAPEK, Peter. Cell wall mannan of human pathogen *Candida dubliniensis*. In *Carbohydrate Polymers*, 2007, vol. 68, p. 191 - 195. (2006: 1.784 - IF). ISSN 0144-8617.  
Citácie:  
1. [1.1] FRANCIS, Arul Prakash - GURUDEVAN, Sneha - JAYAKRISHNAN, A. Synthetic polymannose as a drug carrier: synthesis, toxicity and anti-fungal activity of polymannose-amphotericin B conjugates. In *JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION*. ISSN 0920-5063, 2018, vol. 29, no. 13, pp. 1529-1548., Registrované v: WOS  
2. [1.1] NGUYEN, Thu N. Y. - MATANGKASOMBUT, Oranart - RITPRAJAK, Patcharee. Differential dendritic cell responses to cell wall mannan of *Candida albicans*, *Candida parapsilosis*, and *Candida dubliniensis*. In *JOURNAL OF ORAL SCIENCE*. ISSN 1343-4934, 2018, vol. 60, no. 4, pp. 557-566., Registrované v: WOS
- ADCA440 LIŽIČAROVÁ, Izebeľ - MATULOVÁ, Mária - CAPEK, Peter - MACHOVÁ, Eva. Human pathogen *Candida dubliniensis*: A cell wall mannan with a high content of beta-1,2-linked mannose residues. In *Carbohydrate Polymers*, 2007, vol. 70, p. 89-100. (2006: 1.784 - IF). ISSN 0144-8617.  
Citácie:  
1. [1.1] FRANCIS, Arul Prakash - GURUDEVAN, Sneha - JAYAKRISHNAN, A. Synthetic polymannose as a drug carrier: synthesis, toxicity and anti-fungal activity of polymannose-amphotericin B conjugates. In *JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION*. ISSN 0920-5063, 2018, vol. 29, no. 13, pp. 1529-1548., Registrované v: WOS  
2. [1.1] NGUYEN, Thu N. Y. - MATANGKASOMBUT, Oranart - RITPRAJAK, Patcharee. Differential dendritic cell responses to cell wall mannan of *Candida albicans*, *Candida parapsilosis*, and *Candida dubliniensis*. In *JOURNAL OF ORAL SCIENCE*. ISSN 1343-4934, 2018, vol. 60, no. 4, pp. 557-566., Registrované v: WOS
- ADCA441 LORENCOVÁ, Lenka - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika, Došeková - HOLAZOVÁ, Alena, Šedivá - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica, Welwardová - SASINKOVÁ, Vlasta - FILIP, Jaroslav - KASÁK, Peter - JERIGOVÁ, Monika - VELIČ, Dušan - MAHMOUD, Khaled A. - TKÁČ, Ján. Electrochemical performance of Ti3C2TX MXene in aqueous media: towards ultrasensitive H2O2 sensing. In *Electrochimica Acta*, 2017, vol. 235, p. 471-479. (2016: 4.798 - IF, Q1 - JCR, 1.355 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0013-4686.  
Citácie:

1. [1.1] ANICHINI, Cosimo - CZEPA, Włodzimierz - PAKULSKI, Dawid - ALIPRANDI, Alessandro - CIESIELSKI, Artur - SAMORI, Paolo. Chemical sensing with 2D materials. In *CHEMICAL SOCIETY REVIEWS*. ISSN 0306-0012, 2018, vol. 47, no. 13, pp. 4860-4908., Registrované v: WOS
2. [1.1] CHIA, Xinyi - PUMERA, Martin. Characteristics and performance of two-dimensional materials for electrocatalysis. In *NATURE CATALYSIS*. ISSN 2520-1158, 2018, vol. 1, no. 12, pp. 909-921., Registrované v: WOS
3. [1.1] JIANG, Yanjun - ZHANG, Xiaoning - PEI, Lijuan - YUE, Shu - MA, Li - ZHOU, Liya - HUANG, Zhihong - HE, Ying - GAO, Jing. Silver nanoparticles modified two-dimensional transition metal carbides as nanocarriers to fabricate acetylcholinesterase-based electrochemical biosensor. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2018, vol. 339, no., pp. 547-556., Registrované v: WOS
4. [1.1] KUMAR, Saurabh - LEI, Yongjiu - ALSHAREEF, Niman H. - QUEVEDO-LOPEZ, M. A. - SALAMA, Khaled N. Biofunctionalized two-dimensional Ti<sub>3</sub>C<sub>2</sub> MXenes for ultrasensitive detection of cancer biomarker. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 121, no., pp. 243-249., Registrované v: WOS
5. [1.1] LAWAL, Abdulazeez T. Progress in utilisation of graphene for electrochemical biosensors. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 106, no., pp. 149-178., Registrované v: WOS
6. [1.1] LIU, Jianbo - YANG, Chen - SHANG, Yonghui - ZHANG, Ping - LIU, Jing - ZHENG, Jianbin. Preparation of a nanocomposite material consisting of cuprous oxide, polyaniline and reduced graphene oxide, and its application to the electrochemical determination of hydrogen peroxide. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2018, vol. 185, no. 3, pp., Registrované v: WOS
7. [1.1] MUCKLEY, Eric S. - NAGUIB, Michael - IVANOV, Ilia N. Multi-modal, ultrasensitive, wide-range humidity sensing with Ti<sub>3</sub>C<sub>2</sub> film. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 46, pp. 21689-21695., Registrované v: WOS
8. [1.1] RAAGULAN, Kanthasamy - BRAVEENTH, Ramanaskanda - JANG, Hee Jung - LEE, Yun Seon - YANG, Cheol-Min - KIM, Bo Mi - MOON, Jai Jung - CHAI, Kyu Yun. Electromagnetic Shielding by MXene-Graphene-PVDF Composite with Hydrophobic, Lightweight and Flexible Graphene Coated Fabric. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 10, pp., Registrované v: WOS
9. [1.1] RAAGULAN, Kanthasamy - BRAVEENTH, Ramanaskanda - JANG, Hee Jung - LEE, Yun Seon - YANG, Cheol-Min - KIM, Bo Mi - MOON, Jai Jung - CHAI, Kyu Yun. Fabrication of Nonwetting Flexible Free-Standing MXene-Carbon Fabric for Electromagnetic Shielding in S-Band Region. In *BULLETIN OF THE KOREAN CHEMICAL SOCIETY*. ISSN 1229-5949, 2018, vol. 39, no. 12, pp. 1412-1419., Registrované v: WOS
10. [1.1] SINHA, Ankita - DHANJAI - ZHAO, Huimin - HUANG, Yujin - LU, Xianbo - CHEN, Jiping - JAIN, Rajeev. MXene: An emerging material for sensing and biosensing. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2018, vol. 105, no., pp. 424-435., Registrované v: WOS
11. [1.1] SUN, Shuijing - LIAO, Chan - HAFEZ, Ahmed M. - ZHU, Hongli - WU, Songping. Two-dimensional MXenes for energy storage. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2018, vol. 338, no., pp. 27-45., Registrované v: WOS
12. [1.1] WANG, Hou - WU, Yan - YUAN, Xingzhong - ZENG, Guangming - ZHOU, Jin - WANG, Xin - CHEW, Jia Wei. Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. In *ADVANCED MATERIALS*. ISSN 0935-9648, 2018, vol. 30, no. 12, pp., Registrované v: WOS
13. [1.1] WU, Lingxia - LU, Xianbo - DHANJAI - WU, Zhong-Shuai - DONG, Yanfeng - WANG, Xiaohui - ZHENG, Shuanghao - CHEN, Jiping. 2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 107, no., pp. 69-75., Registrované v: WOS
14. [1.1] YAN, Changzeng - JI, Chao - ZENG, Xiaoliang - SUN, Rong - WONG, Ching-Ping. Interconnecting the Promising MXenes via Ag Nanowire in Epoxy Nanocomposites for High-Performance Thermal Management Applications. In *2018 19TH INTERNATIONAL CONFERENCE ON ELECTRONIC PACKAGING TECHNOLOGY (ICEPT)*, 2018, vol., no., pp. 510-512., Registrované v: WOS
15. [1.1] ZHENG, Jiushang - WANG, Bin - DING, Ailing - WENG, Bo - CHEN, Jiucun. Synthesis of MXene/DNA/Pd/Pt nanocomposite for sensitive detection of dopamine. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2018, vol. 816, no., pp. 189-194., Registrované v: WOS



Dušan - KASÁK, Peter - MAHMOUD, Khaled A. - TKÁČ, Ján\*\*. Highly stable Ti3C2Tx (MXene)/Pt nanoparticles-modified glassy carbon electrode for H2O2 and small molecules sensing applications. In *Sensors and Actuators B*, 2018, vol. 263, p. 360-368. (2017: 5.667 - IF, Q1 - JCR, 1.406 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0925-4005.

Citácie:

1. [1.1] SINHA, Ankita - DHANJAI - ZHAO, Huimin - HUANG, Yujin - LU, Xianbo - CHEN, Jiping - JAIN, Rajeev. MXene: An emerging material for sensing and biosensing. In *TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2018, vol. 105, no., pp. 424-435., Registrované v: WOS

ADCA443

LORITO, M. - FARKAŠ, Vladimír - REBUFFAT, S. - BODO, B. - KUBICEK, C.P. Cell wall synthesis is a major target of mycoparasitic antagonism by *Trichoderma harzianum*. In *Journal of Bacteriology*, 1996, vol. 178, p. 6382-6385. ISSN 0021-9193.

Citácie:

1. [1.1] ATANASOVA, Lea - GRUBER, Sabine - LICHUUS, Alexander - RADEBNER, Theresa - ABENDSTEIN, Leoni - MUENSTERKOETTER, Martin - STRALIS-PAVESE, Nancy - LABAJ, Pawel P. - KREIL, David P. - ZEILINGER, Susanne. The Gpr1-regulated Sur7 family protein Sfp2 is required for hyphal growth and cell wall stability in the mycoparasite *Trichoderma atroviride*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
2. [1.1] BRAUN, H. - WOITSCH, L. - HETZER, B. - GEISEN, R. - ZANGE, B. - SCHMIDT-HEYDT, M. *Trichoderma harzianum*: Inhibition of mycotoxin producing fungi and toxin biosynthesis. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2018, vol. 280, no., pp. 10-16., Registrované v: WOS
3. [1.1] JABER, Lara R. - OWNLEY, Bonnie H. Can we use entomopathogenic fungi as endophytes for dual biological control of insect pests and plant pathogens? In *BIOLOGICAL CONTROL*. ISSN 1049-9644, 2018, vol. 116, no., pp. 36-45., Registrované v: WOS
4. [1.1] MARIK, Tamas - TYAGI, Chetna - RACIC, Gordana - RAKK, David - SZEKERES, Andras - VAGVOLGYI, Csaba - KREDICS, Laszlo. New 19-Residue Peptaibols from *Trichoderma Clade Viride*. In *MICROORGANISMS*. ISSN 2076-2607, 2018, vol. 6, no. 3, pp., Registrované v: WOS
5. [1.1] MENDOZA-MENDOZA, Artemio - NOGUEIRA-LOPEZ, Guillermo - ARIZMENDI, Fabiola Padilla - CRIPPS-GUAZZONE, Natalia - NIETO-JACOBO, Maria Fernanda - LAWRY, Robert - KANDULA, Diwakar - BERENICE SALAZAR-BADILLO, Fatima - SALAS-MUNOZ, Silvia - ARMANDO MAURICIO-CASTILLO, Jorge - HILL, Robert - STEWART, Alison - STEYAERT, Johanna. Mechanisms of Growth Promotion by Members of the Rhizosphere Fungal Genus *Trichoderma*. In *ADVANCES IN PGPR RESEARCH*, 2017, vol., no., pp. 1-15., Registrované v: WOS
6. [1.1] MYTHILI, J. B. - CHETHANA, B. S. - RAJEEV, P. R. - GANESHAN, Girija. Chitinase gene construct from *Trichoderma harzianum* proved effective against onion purple blotch caused by *Alternaria porri*. In *INDIAN JOURNAL OF BIOTECHNOLOGY*. ISSN 0972-5849, 2018, vol. 17, no. 1, pp. 50-56., Registrované v: WOS
7. [1.1] SHAH, L. - ALI, A. - YAHYA, M. - ZHU, Y. - WANG, S. - SI, H. - RAHMAN, H. - MA, C. Integrated control of fusarium head blight and deoxynivalenol mycotoxin in wheat. In *PLANT PATHOLOGY*. ISSN 0032-0862, 2018, vol. 67, no. 3, pp. 532-548., Registrované v: WOS
8. [1.1] SINGH, Jyoti - RAJPUT, Rahul Singh - BISEN, Kartikay - SINGH, Surendra - SINGH, H. B. Role of *Trichoderma* Secondary Metabolites in Plant Growth Promotion and Biological Control. In *ADVANCES IN PGPR RESEARCH*, 2017, vol., no., pp. 411-426., Registrované v: WOS
9. [1.1] YAZMIN GOMEZ-RODRIGUEZ, Elida - ELENA URESTI-RIVERA, Edith - ARACELI PATRON-SOBERANO, Olga - AUXILIADORA ISLAS-OSUNA, Maria - FLORES-MARTINEZ, Alberto - RIEGO-RUIZ, Lina - TERESA ROSALES-SAAVEDRA, Maria - CASAS-FLORES, Sergio. Histone acetyltransferase TGF-1 regulates *Trichoderma atroviride* secondary metabolism and mycoparasitism. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS

ADCA444

LUBY, P. - KUNIÁK, Ľudovít - FANTER, C. Crosslinking statistics. III. Relation between relative reactivity and accessibility of cellulose hydroxyl groups. In *Makromolekulare Chemie*, 1979, vol. 180, p. 2379-2386.

Citácie:

1. [1.1] AKIL, Youssef - CASTELLANI, Romain - LEHNEN, Ralph - BUDTOVA, Tatiana - SAAKE, Bodo. Hydroxyalkylation of xylan using propylene carbonate: comparison of products from homo- and heterogeneous synthesis by HRMAS NMR and rheology. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 217-231., Registrované v: WOS
2. [1.1] LIN, Meiyang - XIA, Kunfeng - LU, Pengbo - OU, Yanghao - SU, Lingfeng - LIU, Detao. Smart Hydrophobic-Hydrophilic Self-Switching Cellulosic Materials Synthesized by Regioselective Functionalization. In *BIORESOURCES*. ISSN 1930-2126, 2018, vol. 13, no. 1, pp. 1475-1490., Registrované v: WOS

- ADCA445 LUX, Alexander - VACULÍK, M. - MARTINKA, M. - LIŠKOVÁ, Desana - KULKARNI, M.G. - STIRK, W.A. - VAN STADEN, J. Cadmium induces hypodermal periderm formation in the roots of the monocotyledonous plant *Merwillia plumbea* (Lindl.) Speta. In *Annals of Botany*. - London : Oxford University Press, 2011, vol. 107, p. 285-292. (2010: 3.388 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0305-7364.
- Citácie:
- [1.1] ABASSI, Mejda - LAMHAMED, Mohammed S. - HACHANI, Chadlia - BEJAOU, Zoubair. Morpho-physiological evaluation of three *Salix* clones from semi-arid zones subjected to excess zinc under hydroponic conditions. In *CANADIAN JOURNAL OF FOREST RESEARCH*. ISSN 0045-5067, 2018, vol. 48, no. 5, pp. 599-609., Registrované v: WOS
  - [1.1] GARG, Neera - SINGH, Sandeep. Mycorrhizal inoculations and silicon fortifications improve rhizobial symbiosis, antioxidant defense, trehalose turnover in pigeon pea genotypes under cadmium and zinc stress. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2018, vol. 86, no. 1, pp. 105-119., Registrované v: WOS
  - [1.1] ZHANG, Xia - YANG, Chaodong - SEAGO, James L. Anatomical and histochemical traits of roots and stems of *Artemisia lavandulaefolia* and *A. selengensis* (Asteraceae) in the Jiangnan Floodplain, China. In *FLORA*. ISSN 0367-2530, 2018, vol. 239, no., pp. 87-97., Registrované v: WOS
- ADCA446 MACEKOVÁ, D. - FARKAŠ, Vladimír - KISHIDA, E. - TAKEO, K. Ecto-glycanases and metabolic stability of the capsule in *Cryptococcus neoformans*. In *Journal of Basic Microbiology*, 2006, vol.46, p. 470-479. (2006 - Current Contents). ISSN 0233-111X.
- Citácie:
- [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain alpha-galactosidase from *Papiliotrema flavescens*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS
- ADCA447 MACHOVÁ, Eva - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter. Effect of carboxymethylation on antioxidant properties and radical degradation of mannans and glucans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 112, p. 603-607. (2013: 3.916 - IF, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] LEHTONEN, M. - MERINEN, M. - KILPELAINEN, P. O. - XU, C. - WILLFOR, S. M. - MIKKONEN, K. S. Phenolic residues in spruce galactoglucomannans improve stabilization of oil-in-water emulsions. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 512, no., pp. 536-547., Registrované v: WOS
  - [1.2] WANG, Jing - CHENG, Chan - SHENG, Wenjun - LI, Min - ZHU, Xia - HAN, Shunyu. Study on antioxidant activity in vitro of  $\beta$ -Glucan and its carboxymethylated derivatives from wine yeast. In *Journal of Food Science and Biotechnology*. ISSN 16731689, 2018-01-01, 37, 6, pp. 595-602., Registrované v: SCOPUS
- ADCA448 MACHOVÁ, Eva - FIAČANOVÁ, Lucia - ČÍŽOVÁ, Alžbeta - KORCOVÁ, Jana, Vráblová. Mannoproteins from yeast and hyphal form of *C. albicans* considerably differ in mannan and protein content. In *Carbohydrate Research*, 2015, vol. 408, p. 12-17. (2014: 1.929 - IF, Q2 - JCR, 0.638 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] GRANGER, Bruce L. Accessibility and contribution to glucan masking of natural and genetically tagged versions of yeast wall protein 1 of *Candida albicans*. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 1, pp., Registrované v: WOS
  - [1.1] MA, Liang - CISSE, Ousmane H. - KOVACS, Joseph A. A Molecular Window into the Biology and Epidemiology of *Pneumocystis* spp. In *CLINICAL MICROBIOLOGY REVIEWS*. ISSN 0893-8512, 2018, vol. 31, no. 3, pp., Registrované v: WOS
  - [1.1] NGUYEN, Thu N. Y. - MATANGKASOMBUT, Oranart - RITPRAJAK, Patcharee. Differential dendritic cell responses to cell wall mannan of *Candida albicans*, *Candida parapsilosis*, and *Candida dubliniensis*. In *JOURNAL OF ORAL SCIENCE*. ISSN 1343-4934, 2018, vol. 60, no. 4, pp. 557-566., Registrované v: WOS
- ADCA449 MACHOVÁ, Eva - BYSTRICKÝ, Slavomír. Antioxidant capacities of mannans and glucans are related to their susceptibility of free radical degradation. In *International Journal of Biological Macromolecules*, 2013, vol. 61, p. 308-311. (2012: 2.596 - IF, 0.796 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- Citácie:
- [1.1] CARBALLO, Carlos - CHRONOPOULOU, Evangelia G. - LETSIOU, Sofia - MAYA, Claudia - LABROU, Nikolaos E. - INFANTE, Carlos - POWER, Deborah M. - MANCHADO,

- Manuel. Antioxidant capacity and immunomodulatory effects of a chrysolaminarin-enriched extract in Senegalese sole. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2018, vol. 82, no., pp. 1-8., Registrované v: WOS
2. [1.1] FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In *NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL*. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS
3. [1.1] GALINARI, Eder - ALMEIDA-LIMA, Jailma - MACEDO, Gorete Ribeiro - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Antioxidant, antiproliferative, and immunostimulatory effects of cell wall alpha-D-mannan fractions from *Kluyveromyces marxianus*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 109, no., pp. 837-846., Registrované v: WOS
4. [1.1] SELLIMI, Sabrine - MAALEJ, Hana - REKIK, Dorsaf Moalla - BENSLIMA, Abdelkarim - KSOUHA, Ghada - HAMDJ, Mama - SAHNOUN, Zouheir - LI, Suming - NASRI, Moncef - HAJJI, Mohamed. Antioxidant, antibacterial and in vivo wound healing properties of laminaran purified from *Cystoseira barbata* seaweed. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 633-644., Registrované v: WOS
5. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS
6. [1.1] WU, Ning-hua - KE, Zhi-qiang - WU, Shan - YANG, Xiao-song - CHEN, Qing-jie - HUANG, Sheng-tang - LIU, Chao. Evaluation of the antioxidant and endothelial protective effects of *Lysimachia christinae* Hance (Jin Qian Cao) extract fractions. In *BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1472-6882, 2018, vol. 18, no., pp., Registrované v: WOS
7. [1.1] ZENG, Huang-Yu - HUANG, Yi-Cheng. Basic fibroblast growth factor released from fucoidan-modified chitosan/alginate scaffolds for promoting fibroblasts migration. In *JOURNAL OF POLYMER RESEARCH*. ISSN 1022-9760, 2018, vol. 25, no. 3, pp., Registrované v: WOS
8. [1.2] WANG, Jing - CHENG, Chan - SHENG, Wenjun - LI, Min - ZHU, Xia - HAN, Shunyu. Study on antioxidant activity in vitro of  $\beta$ -Glucan and its carboxymethylated derivatives from wine yeast. In *Journal of Food Science and Biotechnology*. ISSN 16731689, 2018-01-01, 37, 6, pp. 595-602., Registrované v: SCOPUS

ADCA450

MACHOVÁ, Eva - BYSTRICKÝ, Peter - MALOVIKOVÁ, Anna - BYSTRICKÝ, Slavomír.

Preparation and characterization of carboxymethyl derivatives of yeast mannans in aqueous solutions. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2014, vol. 110, p. 219-223. (2013: 3.916 - IF, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] LIU, Yang - HUANG, Gangliang. The derivatization and antioxidant activities of yeast mannan. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 755-761., Registrované v: WOS
2. [1.1] NIU, Jin-lei - LI, Dong - WANG, Li-jun - ADHIKARI, Benu - CHEN, Xiao Dong. Synthesis of Carboxymethyl Flaxseed Gum and Study of Nonlinear Rheological Properties of Its Solutions. In *INTERNATIONAL JOURNAL OF FOOD ENGINEERING*. ISSN 2194-5764, 2018, vol. 14, no. 1, pp., Registrované v: WOS
3. [1.1] SINGH, Saumya - SINGH, Gursharan - ARYA, Shailendra Kumar. Mannans: An overview of properties and application in food products'. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 119, no., pp. 79-95., Registrované v: WOS

ADCA451

MAJKA, Jaroslaw - ROSÉN, Ake - JANÁK, Marian - FROITZHEIM, Nikolaus - KLONOWSKA, Iwona - MANECKI, Maciej - SASINKOVÁ, Vlasta - YOSHIDA, Kenta. Microdiamond discovered in the Seve Nappe (Scandinavian Caledonides) and its exhumation by the "vacuum-cleaner" mechanism. In *Geology*, 2014, vol. 42, p. 1107-1110. (2013: 4.638 - IF, 3.080 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0091-7613.

Citácie:

1. [1.1] BENDER, H. - RING, U. - ALMQVIST, B. S. G. - GRASEMANN, B. - STEPHENS, M. B. Metamorphic Zonation by Out-of-Sequence Thrusting at Back-Stepping Subduction Zones: Sequential Accretion of the Caledonian Internides, Central Sweden. In *TECTONICS*. ISSN 0278-7407, 2018, vol. 37, no. 10, pp. 3545-3576., Registrované v: WOS
2. [1.1] BRUECKNER, Hannes K. - MEDARIS, L. Gordon - GRIFFIN, William L. - JOHNSTON, Scott M. - HARTZ, Ebbe H. - PEARSON, Norman - CAI, Yue - ANDRESEN, Arild. Mechanical Mixing of Garnet Peridotite and Pyroxenite in the Orogenic Peridotite Lenses of the Tvaerdal



- Complex, Liverpool Land, Greenland Caledonides. In JOURNAL OF PETROLOGY. ISSN 0022-3530, 2018, vol. 59, no. 11, pp. 2191-2219., Registrované v: WOS*
3. [1.1] FERRERO, Silvio - ANGEL, Ross J. *Micropetrology: Are Inclusions Grains of Truth? In JOURNAL OF PETROLOGY. ISSN 0022-3530, 2018, vol. 59, no. 9, pp. 1671-1700., Registrované v: WOS*
4. [1.1] GIUNTOLI, Francesco - MENEGON, Luca - WARREN, Clare J. *Replacement reactions and deformation by dissolution and precipitation processes in amphibolites. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2018, vol. 36, no. 9, pp. 1263-1286., Registrované v: WOS*
5. [1.1] MALDONADO, Roberto - WEBER, Bodo - ORTEGA-GUTIERREZ, Fernando - SOLARI, Luigi A. *High-pressure metamorphic evolution of eclogite and associated metapelite from the Chuacús complex (Guatemala Suture Zone): Constraints from phase equilibria modelling coupled with Lu-Hf and U-Pb geochronology. In JOURNAL OF METAMORPHIC GEOLOGY. ISSN 0263-4929, 2018, vol. 36, no. 1, pp. 95-124., Registrované v: WOS*
6. [1.1] SMIT, Karen V. - D'HAENENS-JOHANSSON, Ulrika F. S. - HOWELL, Daniel - LOUDIN, Lorne C. - WANG, Wuyi. *Deformation-related spectroscopic features in natural Type Ib-IaA diamonds from Zimmi (West African craton). In MINERALOGY AND PETROLOGY. ISSN 0930-0708, 2018, vol. 112, no., pp. 243-257., Registrované v: WOS*
- ADCA452 MAJTÁN, Juraj - BÍLIKOVÁ, Katarína - MARKOVIC, O. - GROF, J. - KOGAN, Grigorij - ŠIMÚTH, Jozef. *Isolation and characterization of chitin from bumblebee (Bombus terrestris). In International Journal of Biological Macromolecules, 2007, vol. 40, no. 3, pp. 237-241. (2006: 1.684 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0141-8130.*

## Citácie:

1. [1.1] GONZALEZ, A.L. - CEREGHINO, R. - DEZERARD, O. - FARJALLA, V.F. - LEROY, C. - RICHARDSON, B.A. - RICHARDSON, M.J. - ROMERO, G.Q. - SRIVASTAVA, D.S. *Ecological mechanisms and phylogeny shape invertebrate stoichiometry: A test using detritus-based communities across Central and South America. In FUNCTIONAL ECOLOGY. OCT 2018, vol. 32, no. 10, p. 2448-2463., Registrované v: WOS*
2. [1.1] GUNES, E. - SERT, D. *The Effect of Boric Acid on The External Skeleton of Drosophila melanogaster at Different Developmental Stages. In KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE. 2018, vol. 21, no. 2, p. 126-130., Registrované v: WOS*
3. [1.1] HASSAINIA, A. - SATHA, H. - BOUFI, S. *Chitin from Agaricus bisporus: Extraction and characterization. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. OCT 1 2018, vol. 117, p. 1334-1342., Registrované v: WOS*
4. [1.1] IBITOYE, E.B. - LOKMAN, I.H. - HEZMEE, M.N.M. - GOH, Y.M. - ZUKI, A.B.Z. - JIMOH, A.A. *Extraction and physicochemical characterization of chitin and chitosan isolated from house cricket. In BIOMEDICAL MATERIALS. MAR 2018, vol. 13, no. 2., Registrované v: WOS*
5. [1.1] SOON, C.Y. - TEE, Y.B. - TAN, C.H. - ROSNITA, A.T. - KHANNA, A. *Extraction and physicochemical characterization of chitin and chitosan from Zophobas mono larvae in varying sodium hydroxide concentration. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. MAR 2018, vol. 108, p. 135-142., Registrované v: WOS*
6. [1.1] ZHOU, Y.Z. - GE, L.Q. - FAN, N. - XIA, M.S. *Adsorption of Congo red from aqueous solution onto shrimp shell powder. In ADSORPTION SCIENCE & TECHNOLOGY. JUL 2018, vol. 36, no. 5-6, p. 1310-1330., Registrované v: WOS*

- ADCA453 MAJTÁN, Juraj - KUMAR, P. - MAJTÁN, Tomáš - WALLS, A. F. - KLAUDINY, Jaroslav. *Effect of honey and its major royal jelly protein 1 on cytokine and MMP-9 mRNA transcripts in human keratinocytes. In Experimental Dermatology, 2010, vol. 19, no. 8, p. e73-e79. (2009: 3.239 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0906-6705.*

## Citácie:

1. [1.1] CHERAGHI, O. - ABDOLLAHPOURASL, M. - REZABAKHSH, A. - RAHBARGHAZI, R. *Distinct Effects of Royal Jelly on Human Endothelial Cells Under High Glucose Condition. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. SUM 2018, vol. 17, no. 4, p. 1361-1370., Registrované v: WOS*
2. [1.1] MARTINOTTI, S. - RANZATO, E. *Honey, Wound Repair and Regenerative Medicine. In JOURNAL OF FUNCTIONAL BIOMATERIALS. JUN 2018, vol. 9, no. 2., Registrované v: WOS*
3. [1.1] MIYATA, Y. - SAKAI, H. *Anti-Cancer and Protective Effects of Royal Jelly for Therapy-Induced Toxicities in Malignancies. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2018, vol. 19, no. 10., Registrované v: WOS*
4. [1.1] NAKASHIMA, C. - OTSUKA, A. - SEIDEL, J.A. - KABASHIMA, K. *The effect of oral royal jelly administration on skin barrier function: a double-blind randomized placebo-controlled trial. In EUROPEAN JOURNAL OF DERMATOLOGY. JUL-AUG 2018, vol. 28, no. 4, p. 563-564.,*

Registrované v: WOS

5. [1.1] OTA, M. - NAGACHI, Y. - ISHIUCHI, K. - TABUCHI, Y. - XU, F. - SHANG, M.Y. - CAI, S.Q. - MAKINO, T. Comparison of the inducible effects of licorice products with or without heat-processing and pre-treatment with honey on granulocyte colony stimulating factor secretion in cultured enterocytes. In JOURNAL OF ETHNOPHARMACOLOGY. MAR 25 2018, vol. 214, p. 1-7., Registrované v: WOS

6. [1.1] RAMANATHAN, A.N.K.G. - NAIR, A.J. - SUGUNAN, V.S. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. MAY 2018, vol. 44, p. 255-264., Registrované v: WOS

7. [1.1] TIAN, W.L. - LI, M. - GUO, H.Y. - PENG, W.J. - XUE, X.F. - HU, Y.F. - LIU, Y. - ZHAO, Y.Z. - FANG, X.M. - WANG, K. - LI, X.T. - TONG, Y.F. - CONLON, M.A. - WU, W. - REN, F.Z. - CHEN, Z.Z. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. AUG 22 2018, vol. 9., Registrované v: WOS

8. [1.1] WAN, D.C. - MORGAN, S.L. - SPENCLEY, A.L. - MARIANO, N. - CHANG, E.Y. - SHANKAR, G. - LUO, Y.H. - LI, T.H. - HUH, D. - HUYNH, S.K. - GARCIA, J.M. - DOVEY, C.M. - LUMB, J. - LIU, L. - BROWN, K.V. - BERMUDEZ, A. - LUONG, R. - ZENG, H. - MASCETTI, V.L. - PITTEI, S.J. - WANG, J. - TU, H. - QUARTA, M. - SEBASTIANO, V. - NUSSE, R. - RANDO, T.A. - CARETTE, J.E. - BAZAN, J.F. - WANG, K.C. Honey bee Royalactin unlocks conserved pluripotency pathway in mammals. In NATURE COMMUNICATIONS. DEC 4 2018, vol. 9., Registrované v: WOS

ADCA454

MAJTÁN, Juraj - BOHOVÁ, Jana - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav. Methylglyoxal May Affect Hydrogen Peroxide Accumulation in Manuka Honey Through the Inhibition of Glucose Oxidase. In Journal of Medicinal Food : Official Journal of the Korean Society of Food Science and Nutrition, 2014, vol. 17, no. 2, p. 290-293. (2013: 1.699 - IF, 0.617 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1096-620X.

Citácie:

1. [1.1] FRAME, Katie - CHEUNG, Isabella M. Y. - WANG, Michael T. M. - TURNBULL, Philip R. - WAITERS, Grant A. - CRAIG, Jennifer P. Comparing the in vitro effects of MGO (TM) Manuka honey and tea tree oil on ocular Demodex viability. In CONTACT LENS & ANTERIOR EYE. ISSN 1367-0484, 2018, vol. 41, no. 6, pp. 527-530., Registrované v: WOS

2. [1.1] GIUSTO, Gessica - BERETTA, Giangiacomo - VERCELLI, Cristina - VALLE, Emanuela - IUSSICH, Selina - BORGHI, Roberta - ODETTI, Patrizio - MONACELLI, Fiammetta - TRAMUTA, Clara - GREGO, Elena - NEBBIA, Patrizia - ROBINO, Patrizia - ODORE, Rosangela - GANDINI, Marco. Pectin-honey hydrogel: Characterization, antimicrobial activity and biocompatibility. In BIO-MEDICAL MATERIALS AND ENGINEERING. ISSN 0959-2989, 2018, vol. 29, no. 3, pp. 347-356., Registrované v: WOS

3. [1.1] HENATSCH, Darius - DEN HARTOG, Gertjan J. M. - DULJVESTIJN, Adriaan M. - WOLFFS, Petra F. - PHIELIX, Esther - STOKROOS, Robert J. - BRIEDE, Jacob J. The contribution of alpha-dicarbonyl compound dependent radical formation to the antiseptic effect of honey. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 45, no., pp. 239-246., Registrované v: WOS

4. [1.1] OLIVEIRA, Ana - SOUSA, Jessica C. - SILVA, Ana C. - MELO, Luis D. R. - SILLANKORVA, Sanna. Chestnut Honey and Bacteriophage Application to Control Pseudomonas aeruginosa and Escherichia coli Biofilms: Evaluation in an ex vivo Wound Model. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

5. [1.1] WAHYUNINGTYAS, Eka Sakti - ISWARA, Arya - SARI, Yunita - KAMAL, Sodik - SANTOSA, Budi - ISHIJIMA, Tatsuo - NAKATANI, Toshio - PUTRI, Indri Kartika - NASRUDDIN, N. Comparative study on Manuka and Indonesian honeys to support the application of plasma jet during proliferative phase on wound healing. In CLINICAL PLASMA MEDICINE. ISSN 2452-0896, 2018, vol. 12, no., pp. 1-9., Registrované v: WOS

6. [1.1] WILLIAMS, Simon D. - PAPPALARDO, Linda - BISHOP, Josiah - BROOKS, Peter R. Dihydroxyacetone Production in the Nectar of Australian Leptospermum Is Species Dependent. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 42, pp. 11133-11140., Registrované v: WOS

7. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In Bioengineering, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS

8. [1.2] MOHAMED, A. S. - ABDAH, M. A. - RAMASAMY, K. - HASAN, M. H. - AIDA HAMIMI, I. - ZOLKAPLI, Eshak. Physicochemical analysis and sugar profiling of Acacia honey. In Malaysian Journal of Microscopy. ISSN 18237010, 2018-01-01, 14, 1, pp. 157-164., Registrované v: SCOPUS

9. [1.2] SINGHAL, Richa - SIDDIBHAVI, Mahantesh - SANKESHWARI, Roopali - PATIL, Pratibha - JALIHALL, Sagar - ANKOLA, Anil. Effectiveness of three mouthwashes Manuka honey,



- ADCA455 *Raw honey, and Chlorhexidine on plaque and gingival scores of 12-15-year-old school children: A randomized controlled field trial. In Journal of Indian Society of Periodontology. ISSN 0972124X, 2018-01-01, 22, 1, pp. 34-39., Registrované v: SCOPUS*
- MAJTÁN, Juraj - BOHOVÁ, Jana - GARCIA-VILLALBA, Rocio - TOMAS-BARBERAN, F.A. - MADAKOVA, Zuzana - MAJTÁN, Tomáš - MAJTÁN, Viktor - KLAUDINY, Jaroslav. Fir honeydew honey flavonoids inhibit TNF- $\alpha$ -induced MMP-9 expression in human keratinocytes: a new action of honey in wound healing. In Archives of Dermatological Research, 2013, vol. 305, no. 7, p. 619-627. (2012: 2.708 - IF, 1.107 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0340-3696.
- Citácie:
- [1.1] ABEL, Sean D. A. - DADHWAL, Sumit - GAMBLE, Allan B. - BAIRD, Sarah K. Honey reduces the metastatic characteristics of prostate cancer cell lines by promoting a loss of adhesion. In PEERJ. ISSN 2167-8359, 2018, vol. 6, no., pp., Registrované v: WOS
  - [1.1] BROZNIC, Dalibor - RATKAJ, Ivana - STAYER, Mladenka Malenica - PAVELIC, Sandra Kraljevic - ZURGA, Paula - BUBALO, Dragan - GOBIN, Ivana. Evaluation of the Antioxidant Capacity, Antimicrobial and Anti proliferative Potential of Fir (*Abies alba* Mill.) Honeydew Honey Collected from Gorski kotar (Croatia). In FOOD TECHNOLOGY AND BIOTECHNOLOGY. ISSN 1330-9862, 2018, vol. 56, no. 4, pp. 533-545., Registrované v: WOS
  - [1.1] HANAFI, Nafise - TALEBPOUR AMIRI, Fereshteh - SHAHANI, Somayeh - ENAYATIFARD, Reza - GHASEMI, Maryam - KARIMPOUR, Abbas Ali. Licorice cream promotes full-thickness wound healing in Guinea pigs. In JOURNAL OF RESEARCH IN PHARMACY. ISSN 2630-6344, 2018, vol. 22, no. 3, pp. 411-421., Registrované v: WOS
  - [1.1] KRISHNAN, Natarajan - VELRAMAR, Balasubramanian - RAMATCHANDIRIN, Balamurugan - ABRAHAM, George Chelliah - DURAISAMY, Nivas - PANDIYAN, Rajesh - VELU, Rajesh Kannan. Effect of biogenic silver nanocubes on matrix metalloproteinases 2 and 9 expressions in hyperglycemic skin injury and its impact in early wound healing in streptozotocin-induced diabetic mice. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2018, vol. 91, no., pp. 146-152., Registrované v: WOS
  - [1.1] OTA, Misato - NAGACHI, Yasutaka - ISHIUCHI, Kan'ichiro - TABUCHI, Yoshiaki - XU, Feng - SHANG, Ming-Ying - CAI, Shao-Qing - MAKINO, Toshiaki. Comparison of the inducible effects of licorice products with or without heat-processing and pre-treatment with honey on granulocyte colony stimulating factor secretion in cultured enterocytes. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 214, no., pp. 1-7., Registrované v: WOS
  - [1.1] SAWAZAKI, Takuto - NAKAJIMA, Yukari - URAI, Tamae - MUKAI, Kanae - OHTA, Megumi - KATO, Ikuko - KAWAGUCHI, Azusa - KINOSHITA, Yui - KUMAGAI, Yuri - SAKASHITA, Ayaka - YAMAZAKI, Asuka - NAKATANI, Toshio. Efficacy of Honeydew Honey and Blossom Honey on Full-thickness Wound Healing in Mice. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2018, vol. 30, no. 7, pp. 197-204., Registrované v: WOS
  - [1.1] YADAV, Anju - VERMA, Saurabh - KESHRI, Gaurav K. - GUPTA, Asheesh. Combination of medicinal honey and 904 nm superpulsed laser-mediated photobiomodulation promotes healing and impedes inflammation, pain in full-thickness burn. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY. ISSN 1011-1344, 2018, vol. 186, no., pp. 152-159., Registrované v: WOS
  - [1.1] ZEKA, Ketu - RUPARELIA, Ketan C. - SANSONE, Claudia - MACCHIARELLI, Guido - CONTINENZA, Maria Adelaide - ARROO, Randolph R. J. New Hydrogels Enriched with Antioxidants from Saffron Crocus Can Find Applications in Wound Treatment and/or Beautification. In SKIN PHARMACOLOGY AND PHYSIOLOGY. ISSN 1660-5527, 2018, vol. 31, no. 2, pp. 95-98., Registrované v: WOS
  - [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In Bioengineering, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS
- ADCA456 MAJTÁN, Juraj - KOGAN, Grigorij - KOVÁČOVÁ, Elena - BÍLIKOVÁ, Katarína - SIMUTH, Jozef. Stimulation of TNF-alpha release by fungal cell wall polysaccharides. In Zeitschrift fur Naturforschung C-A Journal of Biosciences, 2005, vol. 60, p. 921-926.
- Citácie:
- [1.1] NASIRI, K. - SADEGHI, A.A. - NIKKHAH, A. - CHAMANI, M. Effects of live and hydrolyzed yeast supplementation during transition period on blood IgG content and INF-gamma gene expression in dairy cows. In JOURNAL OF LIVESTOCK SCIENCE. 2018, vol. 9, p. 65-69., Registrované v: WOS
  - [1.1] PUNETHA, M. - ROY, A.K. - AJITHAKUMAR, H.M. - PARA, I.A. - GUPTA, D. - SINGH, M. - BHARATI, J. Immunomodulatory effects of probiotics and prilled fat supplementation on

- ADCA457 *immune genes expression and lymphocyte proliferation of transition stage Karan Fries cows. In VETERINARY WORLD. FEB 2018, vol. 11, no. 2, p. 209-214., Registrované v: WOS*  
 MAJTÁN, Juraj - BOHOVÁ, Jana - HORNIÁČKOVÁ, Miroslava - KLAUDINY, Jaroslav - MAJTÁN, Viktor. Anti-biofilm Effects of Honey Against Wound Pathogens *Proteus mirabilis* and *Enterobacter cloacae*. In *Phytotherapy Research*, 2014, vol. 28, no. 1, p. 69-75. (2013: 2.397 - IF, 0.824 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0951-418X.  
 Citácie:  
 1. [1.1] GARCIA-TENESACA, Marilyn - NAVARRETE, Eillen S. - ITURRALDE, Gabriel A. - VILLACRES GRANDA, Irina M. - TEJERA, Eduardo - BELTRAN-AYALA, Pablo - GIAMPIERI, Francesca - BATTINO, Maurizio - ALVAREZ-SUAREZ, Jose M. Influence of Botanical Origin and Chemical Composition on the Protective Effect against Oxidative Damage and the Capacity to Reduce In Vitro Bacterial Biofilms of Monofloral Honey from the Andean Region of Ecuador. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 1, pp., Registrované v: WOS  
 2. [1.1] HANNAN, Abdul - BAJWA, Asma Ejaz - RIAZ, Saira - ARSHAD, Usman - SALEEM, Sidrah - BAJWA, Usama Ijaz. In vitro *Salmonella typhi* biofilm formation on gallstones and its disruption by Manuka honey. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 1, pp. 129-135., Registrované v: WOS  
 3. [1.1] HAYES, G. - WRIGHT, N. - GARDNER, S. L. - TELZROW, C. L. - WOMMACK, A. J. - VIGUEIRA, P. A. Manuka honey and methylglyoxal increase the sensitivity of *Staphylococcus aureus* to linezolid. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN 0266-8254, 2018, vol. 66, no. 6, pp. 491-495., Registrované v: WOS  
 4. [1.1] HUSSAIN, Muhammad Barkaat. Role of Honey in Topical and Systemic Bacterial Infections. In *JOURNAL OF ALTERNATIVE AND COMPLEMENTARY MEDICINE*. ISSN 1075-5535, 2018, vol. 24, no. 1, pp. 15-24., Registrované v: WOS  
 5. [1.1] KAMARUZZAMAN, Nor Fadhillah - TAN, Li Peng - YAZID, Khairun Anisa Mat - SAEED, Shamsaldeen Ibrahim - HAMDAN, Ruhil Hayati - CHOONG, Siew Shean - WONG, Weng Kin - CHIVU, Alexandru - GIBSON, Amanda Jane. Targeting the Bacterial Protective Armour; Challenges and Novel Strategies in the Treatment of Microbial Biofilm. In *MATERIALS*. ISSN 1996-1944, 2018, vol. 11, no. 9, pp., Registrované v: WOS  
 6. [1.1] LIU, Fang - WANG, Fengting - DU, Lihui - ZHAO, Tong - DOYLE, Michael P. - WANG, Daoying - ZHANG, Xinxiao - SUN, Zhilan - XU, Weimin. Antibacterial and antibiofilm activity of phenyllactic acid against *Enterobacter cloacae*. In *FOOD CONTROL*. ISSN 0956-7135, 2018, vol. 84, no., pp. 442-448., Registrované v: WOS  
 7. [1.1] MORRONI, Gianluca - ALVAREZ-SUAREZ, Jose M. - BRENCIANI, Andrea - SIMONI, Serena - FIORITI, Simona - PUGNALONI, Armanda - GIAMPIERI, Francesca - MAZZONI, Luca - GASPARRINI, Massimiliano - MARINI, Emanuela - MINGOIA, Marina - BATTINO, Maurizio - GIOVANETTI, Eleonora. Comparison of the Antimicrobial Activities of Four Honey from Three Countries (New Zealand, Cuba, and Kenya). In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS  
 8. [1.2] LAZARIDES, Alexander L. - HAMID, Kamran S. - KERZNER, Michael S. Novel Use of Active *Leptospermum* Honey for Ringed Fixator Pin Site Care in Diabetic Charcot Deformity Patients. In *Foot and Ankle Specialist*. ISSN 19386400, 2018-04-01, 11, 2, pp. 117-122., Registrované v: SCOPUS
- ADCA458 MAJZÚNOVÁ, Miroslava - PAKANOVÁ, Zuzana - KVASNIČKA, Peter - BALIŠ, Peter - ČAČÁNYIOVÁ, Soňa - DOVINOVÁ, Ima. Age-dependent redox status in the brain stem of NO-deficient hypertensive rats. In *Journal of Biomedical Science*, 2017, vol. 24, article 72, 14 p. (2016: 2.799 - IF, Q2 - JCR, 1.221 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1021-7770.  
 Citácie:  
 1. [1.1] LIANG, Y. - KAGOTA, S. - MARUYAMA, K. - OONISHI, Y. - MIYAUCHI-WAKUDA, S. - ITO, Y. - YAMADA, S. - SHINOZUKA, K. Royal jelly increases peripheral circulation by inducing vasorelaxation through nitric oxide production under healthy conditions. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, OCT 2018, vol. 106, p. 1210-1219., Registrované v: WOS
- ADCA459 MALECOVÁ, B. - RAMSER, J. - O'BRIEN, J.K. - JANITZ, M. - JÚDOVÁ, J. - LEHRACH, H. - ŠIMÚTH, Jozef. Honeybee (*Apis mellifera* L.) mrjp gene family: computational analysis of putative promoters and genomic structure of mrjp, the gene coding for the most abundant protein of larval food. In *Gene*, 2003, vol. 303, p. 165-175. ISSN 0378-1119.  
 Citácie:  
 1. [1.1] JIANG, Chen-min - LIU, Xin - LI, Chun-xue - QIAN, Hao-cheng - CHEN, Di - LAI, Chao-qiang - SHEN, Li-rong. Anti-senescence effect and molecular mechanism of the major royal jelly proteins on human embryonic lung fibroblast (HFL-I) cell line. In *JOURNAL OF ZHEJIANG*

- UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2018, vol. 19, no. 12, pp. 960-972., Registrované v: WOS
2. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
3. [1.1] WINKLER, Paul - SIEG, Frank - BUTTSTEDT, Anja. Transcriptional Control of Honey Bee (*Apis mellifera*) Major Royal Jelly Proteins by 20-Hydroxyecdysone. In INSECTS. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS
- ADCA460 MALOVÍKOVÁ, Anna - HAYAKAWA, K. - KWAK, J.C.T. Surfactant-polyelectrolyte interactions. IV. Surfactant chain length dependence of the binding of alkylpyridinium cation to dextran sulfate. In Journal of Physical Chemistry, 1984, vol. 88, p. 1930-1933. ISSN 0022-3654.
- Citácie:
1. [1.1] DE SILVA, Udaka K. - BROWN, Jennifer L. - LAPITSKY, Yakov. Poly(allylamine)/tripolyphosphate coacervates enable high loading and multiple-month release of weakly amphiphilic anionic drugs: an in vitro study with ibuprofen. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 35, pp. 19409-19419., Registrované v: WOS
2. [1.1] ZAKHAROVA, Julia A. - NOVOSKOLTSEVA, Olga A. - PYSHKINA, Olga A. - KARPUSHKIN, Evgeny A. - SERGEYEV, Vladimir G. Controlled modification of Nafion membrane with cationic surfactant. In COLLOID AND POLYMER SCIENCE. ISSN 0303-402X, 2018, vol. 296, no. 5, pp. 835-846., Registrované v: WOS
3. [1.2] GODDARD, E. D. Applications of polymer-surfactant systems. In Interactions of Surfactants with Polymers and Proteins, 2018-01-01, pp. 395-414., Registrované v: SCOPUS
4. [1.2] GODDARD, E. D. Polymer-surfactant interaction: Part II: Polymer and surfactant of opposite charge. In Interactions of Surfactants with Polymers and Proteins, 2018-01-01, pp. 171-202., Registrované v: SCOPUS
- ADCA461 MALOVÍKOVÁ, Anna - RINAUDO, M. - MILAS, M. Comparative interactions of magnesium and calcium counterions with polygalacturonic acid. In Biopolymers, 1994, vol. 34, p. 1059-1064. ISSN 0006-3525.
- Citácie:
1. [1.1] HAAS, Christoph - HOLTHUSEN, Dorte - HORN, Rainer. Biological Alteration of Flow Properties of Soil Samples From Two Bt Horizons of a Haplic Luvisol Determined With Rheometry. In FRONTIERS IN ENVIRONMENTAL SCIENCE, 2018, vol. 6, no., pp., Registrované v: WOS
- ADCA462 MARCUS, S.E. - VERHERTBRUGGEN, Y. - HERVÉ, C. - ORDAZ-ORTIZ, J.J. - FARKAŠ, Vladimír - PEDERSEN, H.L. - WILLATS, W.G.T. - KNOX, J.P. Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. In Plant Biology, 2008, vol. 8, art. No. 60, 12 p. ISSN 1435-8603.
- Citácie:
1. [1.1] BONA, Cleusa - DE CHIARA MOCO, Maria Cecilia - MASTROBERTI, Alexandra Antunes. Cytological aspects during the stretching of collapsed cells in the root aerenchyma of *Potamogeton polygonus* Cham. & Schltdl. (Potamogetonaceae). In FLORA. ISSN 0367-2530, 2018, vol. 239, no., pp. 151-158., Registrované v: WOS
2. [1.1] CHERNOVA, T. E. - MIKSHINA, P. V. - SALNIKOV, V. V. - IBRAGIMOVA, N. N. - SAUTKINA, O. V. - GORSHKOVA, T. A. Development of distinct cell wall layers both in primary and secondary phloem fibers of hemp (*Cannabis sativa* L.). In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 117, no., pp. 97-109., Registrované v: WOS
3. [1.1] HERBURGER, Klaus - RYAN, Louise M. - POPPER, Zoe A. - HOLZINGER, Andreas. Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, 2018, vol. 131, no. 2, pp., Registrované v: WOS
4. [1.1] HONTA, Hideyuki - INAMURA, Takuya - KONISHI, Teruko - SATOH, Shinobu - IWAI, Hiroaki. UDP-arabinopyranose mutase gene expressions are required for the biosynthesis of the arabinose side chain of both pectin and arabinoxyloglucan, and normal leaf expansion in *Nicotiana tabacum*. In JOURNAL OF PLANT RESEARCH. ISSN 0918-9440, 2018, vol. 131, no. 2, pp. 307-317., Registrované v: WOS
5. [1.1] IZQUIERDO, Lucia - MARTIN, Ignacio - ALBORNOS, Lucia - HERNANDEZ-NISTAL, Josefina - HUESO, Pablo - DOPICO, Berta - LABRADOR, Emilia. Overexpression of Cicer arietinum beta III-Gal but not beta IV-Gal in arabidopsis causes a reduction of cell wall beta-(1,4)-galactan compensated by an increase in homogalacturonan. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 231, no., pp. 135-146., Registrované v: WOS
6. [1.1] JI, Li - JIE, Zhenjing - YING, Xin - YUE, Qi - ZHOU, Yifa - SUN, Lin. Structural characterization of alkali-soluble polysaccharides from *Panax ginseng* C. A. Meyer. In ROYAL



- SOCIETY OPEN SCIENCE. ISSN 2054-5703, 2018, vol. 5, no. 3, pp., Registrované v: WOS
7. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. Heterogeneous distribution of pectin and hemicellulose epitopes in the phloem of four hardwood species. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2018, vol. 32, no. 2, pp. 393-414., Registrované v: WOS
8. [1.1] KIYOTO, Shingo - YOSHINAGA, Arata - FERNANDEZ-TENDERO, Eva - DAY, Arnaud - CHABBERT, Brigitte - TAKABE, Keiji. Distribution of Lignin, Hemicellulose, and Arabinogalactan Protein in Hemp Phloem Fibers. In *MICROSCOPY AND MICROANALYSIS*. ISSN 1431-9276, 2018, vol. 24, no. 4, pp. 442-452., Registrované v: WOS
9. [1.1] LIN, Shoukai - WU, Ti - LIN, Hailan - ZHANG, Yanqing - XU, Shichang - WANG, Jing - WU, Bisha - CHEN, Yu - LIN, Suying - LIN, Dahe - WANG, Xiumei - ZHAO, Xiaoxu - WU, Jincheng. De Novo Analysis Reveals Transcriptomic Responses in *Eriobotrya japonica* Fruits during Postharvest Cold Storage. In *GENES*. ISSN 2073-4425, 2018, vol. 9, no. 12, pp., Registrované v: WOS
10. [1.1] LOPEZ, Renee A. - MANSOURI, Katayoun - HENRY, Jason S. - FLOWERS, Nicholas D. - VAUGHN, Kevin C. - RENZAGLIA, Karen Sue. Immunogold Localization of Molecular Constituents Associated with Basal Bodies, Flagella, and Extracellular Matrices in Male Gametes of Land Plants. In *BIO-PROTOCOL*, 2017, vol. 7, no. 21, pp., Registrované v: WOS
11. [1.1] LOPEZ, Renee A. - RENZAGLIA, Karen S. The *Ceratopteris* (fern) developing motile gamete walls contain diverse polysaccharides, but not pectin. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 2, pp. 393-404., Registrované v: WOS
12. [1.1] MUCHERO, Wellington - SONIRELI, Kelsey L. - CHEN, Jin-Gui - URBANOWICZ, Breeanna R. - ZHANG, Jin - SINGAN, Vasanth - YANG, Yongil - BRUEGGEMAN, Robert S. - FRANCO-CORONADO, Juan - ABRAHAM, Nivi - YAN, Jeong-Yeh - MOREMEN, Kelley W. - WEISBERG, Alexandra J. - CHANG, Jeff H. - LINDQUIST, Erika - BARRY, Kerrie - RANJAN, Priya - JAWDY, Sara - SCHMUTZ, Jeremy - TUSKAN, Gerald A. - LEBOLDUS, Jared M. Association mapping, transcriptomics, and transient expression identify candidate genes mediating plant-pathogen interactions in a tree. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2018, vol. 115, no. 45, pp. 11573-11578., Registrované v: WOS
13. [1.1] NIU, Yuqing - HU, Bei - LI, Xiaoquan - CHEN, Houbin - TAKAC, Tomas - SAMAJ, Jozef - XU, Chunxiang. Comparative Digital Gene Expression Analysis of Tissue-Cultured Plantlets of Highly Resistant and Susceptible Banana Cultivars in Response to *Fusarium oxysporum*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
14. [1.1] OKAMOTO-NAKAZATO, Akane. Implications of the galactosidase activity of yieldin in the regulatory mechanism of yield threshold that is fundamental to cell wall extension. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2018, vol. 163, no. 2, pp. 259-266., Registrované v: WOS
15. [1.1] RASHMI, R. - SIDDALINGAMURTHY, K. R. Microbial xyloglucanases: a comprehensive review. In *BIOCATALYSIS AND BIOTRANSFORMATION*. ISSN 1024-2422, 2018, vol. 36, no. 4, pp. 280-295., Registrované v: WOS
16. [1.1] RYDAHL, Maja G. - HANSEN, Aleksander R. - KRACUN, Stjepan K. - MRAVEC, Jozef. Report on the Current Inventory of the Toolbox for Plant Cell Wall Analysis: Proteinaceous and Small Molecular Probes. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS
17. [1.1] SAFFER, Adam M. Expanding roles for pectins in plant development. In *JOURNAL OF INTEGRATIVE PLANT BIOLOGY*. ISSN 1672-9072, 2018, vol. 60, no. 10, pp. 910-923., Registrované v: WOS
18. [1.1] ZHENG, Yunzhen - WANG, Xuan - CHEN, Yuning - WAGNER, Edward - COSGROVE, Daniel J. Xyloglucan in the primary cell wall: assessment by FESEM, selective enzyme digestions and nanogold affinity tags. In *PLANT JOURNAL*. ISSN 0960-7412, 2018, vol. 93, no. 2, pp. 211-226., Registrované v: WOS
19. [1.2] AMANDA, Dhika - DOBLIN, Monika S. - MACMILLAN, Colleen P. - GALLETTI, Roberta - GOLZ, John F. - BACIC, Antony - INGRAM, Gwyneth C. - JOHNSON, Kim L. Arabidopsis DEFECTIVE KERNEL1 regulates cell wall composition and axial growth in the inflorescence stem. In *Plant Direct*, 2017-01-01, 1, 6, pp., Registrované v: SCOPUS
- ADCA463 MAREŠKA, Václav - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Molecular simulations of hevein/(GlcNAc)<sub>3</sub> complex with weakened OH/O and CH/π hydrogen bonds: implications for their role in complex stabilization. In *Carbohydrate Research*, 2015, vol. 408, p. 1-7. (2014: 1.929 - IF, Q2 - JCR, 0.638 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] HUDSON, Kieran L. *Carbohydrate-Based Interactions at the Molecular and the Cellular*

- ADCA464 *Level Introduction. In CARBOHYDRATE-BASED INTERACTIONS AT THE MOLECULAR AND THE CELLULAR LEVEL. ISSN 2190-5053, 2018, vol., no., pp. 1-34., Registrované v: WOS*  
MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin degrading glycoside hydrolases of family 28: sequence-structural features, specificities and evolution. In Protein Engineering Design & Selection, 2001, vol. 14, p. 615-631. ISSN 1741-0126.  
 Citácie:  
 1. [1.1] GIACOMETTI, R. - ILINA, N. - EDUARDO, P.A. - ZAVALA, J.A. Stink bug nezara viridula sustains late MAPKs phosphorylation status and induces expression of genes related with cell wall rearrangement in developing soybean seeds. In ARTHROPOD-PLANT INTERACTIONS. AUG 2018, vol. 12, no. 4, p. 531-541., Registrované v: WOS  
 2. [1.1] HABRYLO, O. - EVANGELISTA, D.E. - CASTILHO, P.V. - PELLOUX, J. - HENRIQUE-SILVA, F. The pectinases from *Sphenophorus levis*: Potential for biotechnological applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. JUN 2018, vol. 112, p. 499-508., Registrované v: WOS  
 3. [1.1] HU, Y. - KIM, S. - JEON, J. - ELFSTRAND, M. - STENLID, J. - LEE, Y.H. - OLSON, A. Characterization of a *Heterobasidion irregulare* endo-rhamnogalacturonase that mediate growth on pectin. In JOURNAL OF PHYTOPATHOLOGY. JAN 2018, vol. 166, no. 1, p. 34-43., Registrované v: WOS  
 4. [1.1] KE, X.B. - WANG, H.S. - LI, Y. - ZHU, B. - ZANG, Y.X. - HE, Y. - CAO, J.S. - ZHU, Z.J. - YU, Y.J. Genome-Wide Identification and Analysis of Polygalacturonase Genes in *Solanum lycopersicum*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. AUG 2018, vol. 19, no. 8., Registrované v: WOS  
 5. [1.1] SULTAN, E.A.A. - ABDEL-HADI, A.H.A. - ABDALLAH, N.A. - TAWFIK, M.S. Identification and molecular characterization of false septa-expressed polygalacturonase gene homologue from sesame (*sesamum indicum* L.). In BIOSCIENCE RESEARCH. OCT-DEC 2018, vol. 15, no. 4, p. 3175-3187., Registrované v: WOS  
 6. [1.1] YANG, Y. - YU, Y.J. - LIANG, Y. - ANDERSON, C.T. - CAO, J.S. A Profusion of Molecular Scissors for Pectins: Classification, Expression, and Functions of Plant Polygalacturonases. In FRONTIERS IN PLANT SCIENCE. AUG 14 2018, vol. 9., Registrované v: WOS
- ADCA465 MARKOVIČ, Oskar - KOHN, Rudolf. Mode of pectin deesterification by *Trichoderma reesei* pectinesterase. In Experientia : interdisciplinary journal of life sciences, 1984, vol. 40, p. 842-843. ISSN 0014-4754.  
 Citácie:  
 1. [1.1] LIU, Nana - SUN, Yun - PEI, Yakun - ZHANG, Xueyan - WANG, Ping - LI, Xiancai - LI, Fuguang - HOU, Yuxia. A Pectin Methylesterase Inhibitor Enhances Resistance to *Verticillium Wilt*. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2202-2220., Registrované v: WOS
- ADCA466 MARKOVIČ, Oskar - CEDERLUND, E. - GRIFFITHS, W.J. - LIPKA, Tibor - JORNWALL, H. Characterization of carrot pectin methylesterase. In Cellular and Molecular Life Sciences, 2002, vol. 59, p. 513-518.  
 Citácie:  
 1. [1.1] DOROKHOV, Yuri L. - SHESHUKOVA, Ekaterina V. - KOMAROVA, Tatiana V. Methanol in Plant Life. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS  
 2. [3.2] Group Author(s). Uniprot Consortium. P83218. IN UniProt Knowledgebase, 2018.  
 Dostupné na internete: <http://www.uniprot.org/uniprot/P83218>, Registrované v: WOS
- ADCA467 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin methylesterases: sequence-structural features and phylogenetic relationships. In Carbohydrate Research, 2004, vol. 339, p. 2281-2295. (2003: 1.533 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0008-6215.  
 Citácie:  
 1. [1.1] MC NAMARA, Louise - GRIFFIN, Christine T. - FITZPATRICK, David - KAVANAGH, Kevin - CAROLAN, James C. The effect of entomopathogenic fungal culture filtrate on the immune response and haemolymph proteome of the large pine weevil, *Hylobius abietis*. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, 2018, vol. 101, no., pp. 1-13., Registrované v: WOS  
 2. [1.1] YUE, X. Y. - CAO, J. S. - MA, Z. M. - LIU, T. T. - XIONG, X. P. - LIN, S. E. - LYU, M. L. - HUANG, L. Characterization and Expression Pattern of a Putative Pectin Methylesterase Gene, BcMF27, in *Brassica campestris* ssp *chinensis*. In RUSSIAN JOURNAL OF PLANT PHYSIOLOGY. ISSN 1021-4437, 2018, vol. 65, no. 3, pp. 364-371., Registrované v: WOS  
 3. [1.1] YUE, Xiaoyan - LIN, Sue - YU, Youjian - HUANG, Li - CAO, Jiashu. The putative pectin methylesterase gene, BcMF23a, is required for microspore development and pollen tube growth in *Brassica campestris*. In PLANT CELL REPORTS. ISSN 0721-7714, 2018, vol. 37, no. 7, pp. 1003-



1009., Registrované v: WOS

4. [3.2] Group Author(s). Uniprot Consortium. Q9SMY7. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9SMY7>, Registrované v: Data Citation Index
5. [3.2] Group Author(s). Uniprot Consortium. Q9SMY6. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9SMY6>, Registrované v: Data Citation Index
6. [3.2] Group Author(s). Uniprot Consortium. O04953. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O04953>, Registrované v: Data Citation Index
7. [3.2] Group Author(s). Uniprot Consortium. O23447. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O23447>, Registrované v: Data Citation Index
8. [3.2] Group Author(s). Uniprot Consortium. O48711. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O48711>, Registrované v: Data Citation Index
9. [3.2] Group Author(s). Uniprot Consortium. O49006. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O49006>, Registrované v: Data Citation Index
10. [3.2] Group Author(s). Uniprot Consortium. O49298. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O49298>, Registrované v: Data Citation Index
11. [3.2] Group Author(s). Uniprot Consortium. O64479. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O64479>, Registrované v: Data Citation Index
12. [3.2] Group Author(s). Uniprot Consortium. O80722. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O80722>, Registrované v: Data Citation Index
13. [3.2] Group Author(s). Uniprot Consortium. O81301. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O81301>, Registrované v: Data Citation Index
14. [3.2] Group Author(s). Uniprot Consortium. O81320. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O81320>, Registrované v: Data Citation Index
15. [3.2] Group Author(s). Uniprot Consortium. O81415. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/O81415>, Registrované v: Data Citation Index
16. [3.2] Group Author(s). Uniprot Consortium. Q1PEC0. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q1PEC0>, Registrované v: Data Citation Index
17. [3.2] Group Author(s). Uniprot Consortium. Q3E8Z8. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q3E8Z8>, Registrované v: Data Citation Index
18. [3.2] Group Author(s). Uniprot Consortium. Q3E989. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q3E989>, Registrované v: Data Citation Index
19. [3.2] Group Author(s). Uniprot Consortium. Q3E9D3. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q3E9D3>, Registrované v: Data Citation Index
20. [3.2] Group Author(s). Uniprot Consortium. Q3EAY9. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q3EAY9>, Registrované v: Data Citation Index
21. [3.2] Group Author(s). Uniprot Consortium. Q42534. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q42534>, Registrované v: Data Citation Index
22. [3.2] Group Author(s). Uniprot Consortium. Q4PSN0. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q4PSN0>, Registrované v: Data Citation Index
23. [3.2] Group Author(s). Uniprot Consortium. Q4PSQ5. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q4PSQ5>, Registrované v: Data Citation Index
24. [3.2] Group Author(s). Uniprot Consortium. Q4PT34. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q4PT34>, Registrované v: Data Citation Index

## Index

25. [3.2] Group Author(s). Uniprot Consortium. Q5MFV8. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q5MFV8>, Registrované v: Data Citation Index
26. [3.2] Group Author(s). Uniprot Consortium. Q84R10. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q84R10>, Registrované v: Data Citation Index
27. [3.2] Group Author(s). Uniprot Consortium. Q84WM7. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q84WM7>, Registrované v: Data Citation Index
28. [3.2] Group Author(s). Uniprot Consortium. Q8L7Q7. IN UniProt Knowledgebase 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q8L7Q7>, Registrované v: Data Citation Index
29. [3.2] Group Author(s). Uniprot Consortium. Q8LPF3. IN Q9LSP1. In: UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LSP1>, Registrované v: Data Citation Index
30. [3.2] Group Author(s). Uniprot Consortium. Q8RXK7. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q8RXK7>, Registrované v: Data Citation Index
31. [3.2] Group Author(s). Uniprot Consortium. Q8VYZ3. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q8VYZ3>, Registrované v: Data Citation Index
32. [3.2] Group Author(s). Uniprot Consortium. Q9FF77. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FF77>, Registrované v: Data Citation Index
33. [3.2] Group Author(s). Uniprot Consortium. Q9FF78. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FF78>, Registrované v: Data Citation Index
34. [3.2] Group Author(s). Uniprot Consortium. Q9FHN4. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FHN4>, Registrované v: Data Citation Index
35. [3.2] Group Author(s). Uniprot Consortium. Q9FHN5. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FHN5>, Registrované v: Data Citation Index
36. [3.2] Group Author(s). Uniprot Consortium. Q9FJ21. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FJ21>, Registrované v: Data Citation Index
37. [3.2] Group Author(s). Uniprot Consortium. Q9FK05. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FK05>, Registrované v: Data Citation Index
38. [3.2] Group Author(s). Uniprot Consortium. Q9FKF3. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FKF3>, Registrované v: Data Citation Index
39. [3.2] Group Author(s). Uniprot Consortium. Q9FM79. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9FM79>, Registrované v: Data Citation Index
40. [3.2] Group Author(s). Uniprot Consortium. Q9LVQ0. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LVQ0>, Registrované v: Data Citation Index
41. [3.2] Group Author(s). Uniprot Consortium. Q9LXK7. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LXK7>, Registrované v: Data Citation Index
42. [3.2] Group Author(s). Uniprot Consortium. Q9LY17. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LY17>, Registrované v: Data Citation Index
43. [3.2] Group Author(s). Uniprot Consortium. Q9LY18. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LY18>, Registrované v: Data Citation Index
44. [3.2] Group Author(s). Uniprot Consortium. Q9LY19. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LY19>, Registrované v: Data Citation Index
45. [3.2] Group Author(s). Uniprot Consortium. Q9LYT5. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LYT5>, Registrované v: Data Citation Index

## Index

46. [3.2] Group Author(s). Uniprot Consortium. Q9M3B0. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9M3B0>, Registrované v: Data Citation Index

47. [3.2] Group Author(s). Uniprot Consortium. Q9MAL0. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9MAL0>, Registrované v: Data Citation Index

48. [3.2] Group Author(s). Uniprot Consortium. Q9SIJ9. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9SIJ9>, Registrované v: Data Citation Index

49. [3.2] Group Author(s). Uniprot Consortium. Q9STY3. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9STY3>, Registrované v: Data Citation Index

50. [3.2] Group Author(s): Uniprot Consortium. O23038. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/O23038>, Registrované v: Data Citation Index

51. [3.2] Group Author(s): Uniprot Consortium. Q9LXD9. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q9LXD9>, Registrované v: Data Citation Index

- ADCA468 MÁROVÁ, I. - BREIEROVÁ, Emília - KOČÍ, R. - FRIEDL, Z. - SLOVÁK, B. - POKORNÁ, J. Influence of exogenous stress factors on production of carotenoids by some strains of carotenogenic yeasts. In Annals of Microbiology, 2004, vol. 54, p. 73-75. ISSN 1590-4261.

## Citácie:

1. [1.1] PI, Hong-Wei - ANANDHARAJ, Marimuthu - KAO, Yi-Ying - LIN, Yu-Ju - CHANG, Jui-Jen - LI, Wen-Hsiung. Engineering the oleaginous red yeast *Rhodotorula glutinis* for simultaneous beta-carotene and cellulase production. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

2. [1.1] TKACOVA, Jana - KLEMPOVA, Tatiana - CERTIK, Milan. Kinetic study of growth, lipid and carotenoid formation in beta-carotene producing *Rhodotorula glutinis*. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 5, pp. 1193-1203., Registrované v: WOS

- ADCA469 MAROVÁ, Ivana - ČARNECKÁ, Martina - HALIENOVÁ, Andrea - BREIEROVÁ, Emília - KOČÍ, Radka. Production of carotenoid-/ ergosterol-supplemented biomass by red yeast *Rhodotorula glutinis* grown under external stress. In Food Technology and Biotechnology : Journal of the Faculty of Food Technology and Biotechnology, 2010, vol.48, p. 56-61. (2009: 0.976 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1330-9862.

## Citácie:

1. [1.1] EL-ZINEY, Mohamed G. - ZAID, Eslam A.Abu - EL-NAGGAR, Moustafa Y. Characterization of carotenogenic *rhodotorula* strains isolated from delta region, Egypt and their potential for carotenoids production. In Journal of Pure and Applied Microbiology. ISSN 09737510, 2018-06-01, 12, 2, pp. 587-599., Registrované v: WOS

- ADCA470 MARTINKA, Michal - DOLAN, Liam - PERNAS, Monica - ABE, Jun - LUX, Alexander. Endodermal cell-cell contact is required for the spatial control of Casparian band development in *Arabidopsis thaliana*. In Annals of Botany, 2012, vol. 110, no. 2, p. 361-371. (2011: 4.030 - IF, 1.747 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0305-7364.

## Citácie:

1. [1.1] LI, Pengxue - YANG, Meina - CHANG, Jiang - WU, Junqing - ZHONG, Fenglin - RAHMAN, Abidur - QIN, Haiyang - WU, Shuang. Spatial Expression and Functional Analysis of Casparian Strip Regulatory Genes in Endodermis Reveals the Conserved Mechanism in Tomato. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

2. [1.1] LI, Pengxue - YU, Qiaozhi - GU, Xu - XU, Chunmiao - QI, Shilian - WANG, Hong - ZHONG, Fenglin - BASKIN, Tobias I. - RAHMAN, Abidur - WU, Shuang. Construction of a Functional Casparian Strip in Non-endodermal Lineages Is Orchestrated by Two Parallel Signaling Systems in *Arabidopsis thaliana*. In CURRENT BIOLOGY. ISSN 0960-9822, 2018, vol. 28, no. 17, pp. 2777-+, Registrované v: WOS

3. [1.1] YU, Rugang - MA, Yuanyuan - LI, Yue - LI, Xin - LIU, Caifeng - DU, Xueling - SHI, Gangrong. Comparative transcriptome analysis revealed key factors for differential cadmium transport and retention in roots of two contrasting peanut cultivars. In BMC GENOMICS. ISSN 1471-2164, 2018, vol. 19, no., pp., Registrované v: WOS

- ADCA471 MASLER, Ladislav - ŠIKL, J. - BAUER, Štefan - ŠANDULA, Jozef. Extracellular polysaccharide-protein complexes produced by selected strains of *Candida albicans* (Robin) Berkhout. In Folia Microbiologica, 1966, vol. 11, p. 373-378. ISSN 0015-5632.

## Citácie:

- ADCA472 1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS*  
MASTIHUBA, Vladimír - KREMnický, Ľubomír - MASTIHUBOVÁ, Mária - WILLET, J.J. - CÔTÉ, G.L. A Spectrophotometric assay for feruloyl esterases. In *Analytical Biochemistry*, 2002, vol. 309, p. 96-101. ISSN 0003-2697.  
 Citácie:  
 1. [1.1] ANTONOPOULOU, Io - HUNT, Cameron - CERULLO, Gabriella - VARRIALE, Simona - GEROGIANNI, Alexandra - FARACO, Vincenzo - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. *Tailoring the specificity of the type C feruloyl esterase FoFaeC from Fusarium oxysporum towards methyl sinapate by rational redesign based on small molecule docking simulations. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 5, pp., Registrované v: WOS*  
 2. [1.1] DILOKPI MOL, Adiphol - MAKELA, Miia R. - VARRIALE, Simona - ZHOU, Miaomiao - CERULLO, Gabriella - GIDIJALA, Loknath - HINKKA, Harri - BRAS, Joana L. A. - JUETTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - HILDEN, Kristiina S. - FARACO, Vincenzo - DE VRIES, Ronald P. *Fungal feruloyl esterases: Functional validation of genome mining based enzyme discovery including uncharacterized subfamilies. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2018, vol. 41, no., pp. 9-14., Registrované v: WOS*  
 3. [1.1] VARRIALE, Simona - CERULLO, Gabriella - ANTONOPOULOU, Io - CHRISTAKOPOULOS, Paul - ROVA, Ulrika - TRON, Thierry - FAURE, Regis - JUETTEN, Peter - PIECHOT, Alexander - BRAS, Joana L. A. - FONTES, Carlos M. G. A. - FARACO, Vincenzo. *Evolution of the feruloyl esterase MtFae1a from Myceliophthora thermophila towards improved catalysts for antioxidants synthesis. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5185-5196., Registrované v: WOS*  
 4. [1.1] WU, Dianhui - CAI, Guolin - LI, Xiaomin - LI, Bing - LU, Jian. *Cloning and expression of ferulic acid esterase gene and its effect on wort filterability. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, 2018, vol. 40, no. 4, pp. 711-717., Registrované v: WOS*  
 5. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. *Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS*  
 6. [1.2] ZHANG, Qiang - BAI, Yajun - CAI, Yajun - ZHENG, Xiaohui. *Cloning, expression and characterization of a new feruloyl esterases from the Lactobacillus Johnsonii strain. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 11, pp. 1129-1134., Registrované v: SCOPUS*
- ADCA473 MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária - BELÁK, Miroslav - DUDÍKOVÁ, Jana - KARNÍŠOVÁ POTOČKÁ, Elena - PETRUŠ, Ladislav. *Preparation of  $\alpha$ -galactooligosaccharides by cell walls from Cryptococcus laurentii using a novel  $\alpha$ -galactosyl donor. In Tetrahedron : Asymmetry, 2017, vol. 28, p. 1089-1094. (2016: 2.126 - IF, Q2 - JCR, 0.754 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0957-4166.*  
 Citácie:  
 1. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. *Characterization of a long-chain alpha-galactosidase from Papiliotrema flavescens. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS*
- ADCA474 MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - BILANIČOVÁ, D. - BOREKOVÁ, M. *Commercial enzyme preparations catalyse feruloylation of glycoside. In Journal of Molecular Catalysis B - Enzymatic, 2006, vol. 38, p. 54-57. ISSN 1381-1177.*  
 Citácie:  
 1. [1.1] BIALECKA-FLORJANCZYK, Ewa - FABISZEWSKA, Agata - ZIENIUK, Bartłomiej. *Phenolic Acids Derivatives Biotechnological Methods of Synthesis and Bioactivity. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2018, vol. 19, no. 14, pp. 1098-1113., Registrované v: WOS*  
 2. [1.1] ZERVA, Anastasia - ANTONOPOULOU, Io - ENMAN, Josefine - IANCU, Laura - JUTTEN, Peter - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. *Optimization of Transesterification Reactions with CLEA-Immobilized Feruloyl Esterases from Thermotheomyces thermophila and Talaromyces wortmannii. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 9, pp., Registrované v: WOS*
- ADCA475 MASTIHUBOVÁ, Mária - POLÁKOVÁ, Monika. *A selective and mild glycosylation method of natural phenolic alcohols. In Beilstein Journal of Organic Chemistry, 2016, vol. 12, p. 524-530. (2015: 2.697 - IF, Q2 - JCR, 1.058 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1860-5397.*  
 Citácie:



1. [1.1] BEGUM, Ahil Sajeli - KUMAR, S. Santhosh - GOTTAPU, Suryanarayana - HIRA, Kirti. *O-Glucoside of natural cleomiscosin-A: An attenuator of pro-inflammatory cytokine production.* In *PHYTOCHEMISTRY LETTERS*. ISSN 1874-3900, 2018, vol. 26, no., pp. 83-87., Registrované v: WOS
2. [1.1] KHONG, Duc Thinh - JUDEH, Zaher M. A. *Total synthesis of phenylpropanoid glycoside osmanthuside-B-6 facilitated by double isomerisation of glucose-rhamnose orthoesters.* In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2017, vol. 15, no. 12, pp. 2638-2646., Registrované v: WOS
3. [1.1] KULKARNI, Suvarn S. - WANG, Cheng-Chung - SABBABARAPU, Narayana Murthy - PODILAPU, Ananda Rao - LIAO, Pin-Hsuan - HUNG, Shang-Cheng. *"One-Pot" Protection, Glycosylation, and Protection-Glycosylation Strategies of Carbohydrates.* In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8025-8104., Registrované v: WOS
- ADCA476 MASTIHUBOVÁ, Mária - BIELY, Peter. Deoxy and deoxyfluoro analogues of acetylated methyl  $\beta$ -D-xylopyranoside - substrates for acetyl xylan esterases. In *Carbohydrate Research*, 2004, vol. 339, p. 2101-2110. (2003: 1.533 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0008-6215.  
Citácie:
1. [1.1] WILLEN, Daniel - BENGTSSON, Dennis - CLEMENTSON, Sebastian - TYKESSON, Emil - MANNER, Sophie - ELLERVIK, Ulf. *Synthesis of Double-Modified Xyloside Analogues for Probing the beta 4GalT7 Active Site.* In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 3, pp. 1259-1277., Registrované v: WOS
- ADCA477 MASTIHUBOVÁ, Mária - BIELY, Peter. Lipase-catalysed preparation of acetates of 4-nitrophenyl beta-D-xylopyranoside and their use in kinetic studies of acetyl migration. In *Carbohydrate Research*, 2004, vol. 339, p. 1353-1360. (2003: 1.533 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0008-6215.  
Citácie:
1. [1.1] LV, Jian - GE, Jian-Tao - LUO, Tao - DONG, Hai. *An inexpensive catalyst, Fe(acac)(3), for regio/site-selective acylation of diols and carbohydrates containing a 1,2-cis-diol.* In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 9, pp. 1987-1991., Registrované v: WOS
2. [1.1] LV, Jian - LUO, Tao - ZHANG, Ying - PEI, Zhichao - DONG, Hai. *Regio/Site-Selective Benzoylation of Carbohydrates by Catalytic Amounts of FeCl3.* In *ACS OMEGA*. ISSN 2470-1343, 2018, vol. 3, no. 12, pp. 17717-17723., Registrované v: WOS
3. [1.1] SISTA KAMESHWAR, Ayyappa Kumar - QIN, Wensheng. *Understanding the structural and functional properties of carbohydrate esterases with a special focus on hemicellulose deacetylating acetyl xylan esterases.* In *Mycology*. ISSN 21501203, 2018-10-02, 9, 4, pp. 273-295., Registrované v: WOS
4. [1.1] STEPANOVA, Elena V. - NAGORNAYA, Marina O. - FILIMONOV, Victor D. - VALIEV, Rashid R. - BELYANIN, Maxim L. - DROZDOVA, Anna K. - CHEREPANOV, Victor N. *A new look at acid catalyzed deacetylation of carbohydrates: A regioselective synthesis and reactivity of 2-O-acetyl aryl glycopyranosides.* In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 458, no., pp. 60-66., Registrované v: WOS
- ADCA478 MASTIHUBOVÁ, Mária - BIELY, Peter. A common access to 2- and 3-substituted methyl beta-D-xylopyranosides. In *Tetrahedron Letters*, 2001, vol. 42, p. 9065-9067. ISSN 0040-4039.  
Citácie:
1. [1.1] WILLEN, Daniel - BENGTSSON, Dennis - CLEMENTSON, Sebastian - TYKESSON, Emil - MANNER, Sophie - ELLERVIK, Ulf. *Synthesis of Double-Modified Xyloside Analogues for Probing the beta 4GalT7 Active Site.* In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 3, pp. 1259-1277., Registrované v: WOS
- ADCA479 MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Donor specificity and regioselectivity in Lipolase mediated acylations of methyl  $\alpha$ -D-glucopyranoside by vinyl esters of phenolic acids and their analogues. In *Bioorganic & Medicinal Chemistry Letters*, 2013, vol. 23, p. 5389-5392. (2012: 2.338 - IF, 1.087 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0960-894X.  
Citácie:
1. [1.1] BIALECKA-FLORJANCZYK, Ewa - FABISZEWSKA, Agata - ZIENIUK, Bartłomiej. *Phenolic Acids Derivatives Biotechnological Methods of Synthesis and Bioactivity.* In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2018, vol. 19, no. 14, pp. 1098-1113., Registrované v: WOS
2. [1.2] KADIDAE, L. O. - USAMI, A. - HONDA, M. *Palladium(II) acetate as catalyst in transvinylolation reactions of hydroxycinnamic acid and its derivatives.* In *Asian Journal of Chemistry*. ISSN 09707077, 2018-01-01, 30, 3, pp. 589-593., Registrované v: SCOPUS
- ADCA480 MAŠTEROVÁ, I. - UHRÍN, Dušan - TOMKO, J. Lilaline-a flavonoid alkaloid from *Lilium candidum*. In *Phytochemistry*, 1987, vol. 26, p. 1844-1845. ISSN 0031-9422.  
Citácie:
1. [1.2] ILKEI, Viktor - HAZAI, László - ANTUS, Sándor - BÖLCSKEI, Hedvig. *Flavonoid*



- Alkaloids: Isolation, Bioactivity, and Synthesis. In Studies in Natural Products Chemistry. ISSN 15725995, 2018-01-01, 56, pp. 247-285., Registrované v: SCOPUS*
- ADCA481 MATULOVÁ, Mária - NOUAILLE, R. - CAPEK, Peter - PÉAN, M. - DELORT, A.-M. - FORANO, E. NMR study of cellulose and wheat straw degradation by *Ruminococcus albus* 20. In *FEBS Journal*, 2008, vol.275, p. 3503-3512. (2007: 3.396 - IF, karentované - CCC). (2008 - Current Contents, WOS). ISSN 1742-464X.
- Citácie:
1. [1.1] JAFARI, Meisam - DAVACHI, Seyed Mohammad - MOHAMMADI-ROVSHANDEH, Jamshid - POURESMAEEL-SELAJANI, Peyman. Preparation and Characterization of Bionanocomposites Based on Benzylated Wheat Straw and Nanoclay. In *JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 913-925., Registrované v: WOS*
- ADCA482 MATULOVÁ, Mária - NOUAILLE, R. - CAPEK, Peter - PÉAN, M. - FORANO, E. - DELORT, A.-M. Degradation of wheat straw by *Fibrobacter succinogenes* S85: a liquid- and solid-state nuclear magnetic resonance study. In *Applied and Environmental Microbiology*, 2005, vol. 71, p. 1247-1253. (2004: 3.810 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0099-2240.
- Citácie:
1. [1.2] GUO, Kai Yuan - SHI, Hai Qiang - CAO, Nan - NIU, Mei Hong - PING, Qing Wei. Effects of Acetic Acid-strengthened Hydrothermal Prehydrolysis on the Dissolution of Hemicelluloses from Acacia Wood and the Component and Structure of the Hemicelluloses. In *Zhongguo Zaozhi Xuebao/Transactions of China Pulp and Paper. ISSN 10006842, 2018-09-01, 33, 3, pp. 1-8., Registrované v: SCOPUS*
- ADCA483 MATULOVÁ, Mária - VERCHERE, J.F. - CHAPELLE, S. Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose. In *Carbohydrate Research*, 1996, vol. 287, p. 37-48. (1995: 1.506 - IF). ISSN 0008-6215.
- Citácie:
1. [1.1] BERTONI, Fernando A. - GONZALEZ, Juan C. - GARCIA, Silvia I. - SALA, Luis F. - BELLU, Sebastian E. Application of chitosan in removal of molybdate ions from contaminated water and groundwater. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 180, no., pp. 55-62., Registrované v: WOS*
- ADCA484 MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Martine - DELORT, Anne-Marie. NMR structural study of fructans produced by *Bacillus* sp. 3B6, bacterium isolated in cloud water. In *Carbohydrate Research*, 2011, vol. 346, p. 501-507. (2010: 1.898 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] LI, Jiankuan - ZHANG, Xin - CAO, Lingya - JI, Jiaojiao - GAO, Jianping. Three Inulin-Type Fructans from *Codonopsis pilosula* (Franch.) Nannf. Roots and Their Prebiotic Activity on *Bifidobacterium longum*. In *MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 12, pp., Registrované v: WOS*
- ADCA485 MATULOVÁ, Mária - CAPEK, Peter - KANEKO, Satoshi - NAVARINI, Luciano - LIVERANI, Furio Suggi. Structure of arabinogalactan oligosaccharides derived from arabinogalactan-protein of *Coffea arabica* instant coffee powder. In *Carbohydrate Research*, 2011, vol. 346, p. 1029-1036. (2010: 1.898 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYI, Vladimir A. Structural studies of water-extractable pectic polysaccharides and arabinogalactan proteins from *Picea abies* greenery. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 195, no., pp. 207-217., Registrované v: WOS*
2. [1.1] PAWLACZYK-GRAJA, Izabela. Polyphenolic-polysaccharide conjugates from flowers and fruits of single-seeded hawthorn (*Crataegus monogyna* Jacq.): Chemical profiles and mechanisms of anticoagulant activity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 869-879., Registrované v: WOS*
3. [1.1] SAEIDY, Sima - NASIRPOUR, Ali - KERAMAT, Javad - DESBRIERES, Jacques - LE CERF, Didier - PIERRE, Guillaume - DELATTRE, Cedric - LAROCHE, Celine - DE BAYNAST, Helene - URSU, Alina-Violeta - MARCATI, Alain - DJELVEH, Gholamreza - MICHAUD, Philippe. Structural characterization and thermal behavior of a gum extracted from *Ferula assa foetida* L. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 426-432., Registrované v: WOS*
- ADCA486 MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Marie. Biotransformation of various saccharides and production of exopolymeric substances by cloud-borne *Bacillus* sp. 3B6. In *Environmental Science and Technology*, 2014, vol. 48, p. 14238-14247. (2013: 5.481 - IF, 2.956 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0013-936X.

## Citácie:

1. [1.1] MADRONICH, Sasha - BJORN, Lars Olof - MCKENZIE, Richard L. Solar UV radiation and microbial life in the atmosphere. In *PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES*. ISSN 1474-905X, 2018, vol. 17, no. 12, pp. 1918-1931., Registrované v: WOS
  2. [1.1] MAKI, Teruya - FURUMOTO, Shogo - ASAH, Yuya - LEE, Kevin C. - WATANABE, Koichi - AOKI, Kazuma - MURAKAMI, Masataka - TAJIRI, Takuya - HASEGAWA, Hiroshi - MASHIO, Asami - IWASAKA, Yasunobu. Long-range-transported bioaerosols captured in snow cover on Mount Tateyama, Japan: impacts of Asian-dust events on airborne bacterial dynamics relating to ice-nucleation activities. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2018, vol. 18, no. 11, pp. 8155-8171., Registrované v: WOS
  3. [1.2] MAKI, Teruya. The long range transport of bioaerosols over East Asia. In *Trans-Boundary Pollution in North-East Asia*, 2018-08-09, pp. 75-108., Registrované v: SCOPUS
- ADCA487 MIADOKOVÁ, Eva - RAUKO, Peter - KOGAN, Grigorij - VLČKOVÁ, Eva - SVIDOVÁ, Soňa - DÚHOVÁ, Viola - NAĐOVÁ, S. Diverse biomodulatory effects of glucomannan from *Candida utilis*. In *Toxicology in vitro*, 2006, vol. 20, p. 649-657. (2005: 0.772 - IF). ISSN 0887-2333.
- Citácie:
1. [1.1] APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60*. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS
  2. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of *Drosophila melanogaster*. A genetic study using the wing spot assay. In *ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY*. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS
- ADCA488 MIADOKOVÁ, Eva - RAUKO, Peter - KOGAN, Grigorij - VLČKOVÁ, Eva - DÚHOVÁ, V. - SVIDOVÁ, Soňa - PRAŽMARIOVÁ, E. - TOTHOVÁ, K. - NAĐOVÁ, S. The role of Natural Biopolymers in Genotoxicity of Mutagens/Carcinogens Elimination. In *Biomedical Papers*, 2005, vol. 149, no. 2, p. 493-496. ISSN 1213-8118.
- Citácie:
1. [1.1] MA, Lu - CHEN, Yuancai - WANG, Xude - XIONG, Mingzhou - SUN, Yuanyuan - ZHANG, Xiaoshu - ZHAO, Yuqing. Design, characterization, and in vitro antiproliferative efficacy of gemcitabine conjugates based on carboxymethyl glucan. In *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*. ISSN 0960-894X, 2018, vol. 28, no. 17, pp. 2920-2924., Registrované v: WOS
- ADCA489 MIKULÁŠOVÁ, M. - KOŠÍKOVÁ, Božena. Modulation of mutagenicity of various mutagens by lignin derivatives. In *Mutation Research*, 2003, vol. 535, p. 171-180. ISSN 1568-7864.
- Citácie:
1. [1.2] Cheng, Y., Zhang, H., Xu, Z., & Wu, L. P. Advanced applications of lignin-based materials. In: *Functional Materials from Lignin: Methods and Advances (World Scientific Publishing Co., 2018, pp. 169-205)*, Registrované v: SCOPUS
- ADCA490 MIKULÁŠOVÁ, M. - KOŠÍKOVÁ, Božena - ALEX, P. - KAČÍK, F. - URGELOVÁ, E. Effect of blending lignin biopolymer on the biodegradability of polyolefin plastics. In *World Journal of Microbiology & Biotechnology*, 2001, vol. 17, p. 601-607. (2000: 0.530 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0959-3993.
- Citácie:
1. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). De-polymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS
  2. [1.1] XU, Chunbao - FERDOSIAN, Fatemeh. Utilizations of Lignin for Polymer Reinforcement and Carbon Fibers. In *CONVERSION OF LIGNIN INTO BIO-BASED CHEMICALS AND MATERIALS*. ISSN 2196-6982, 2017, vol., no., pp. 55-79., Registrované v: WOS
- ADCA491 MILLER, Gavin J. - HANSEN, Steen U. - BARÁTH, Marek - JOHANNESSEN, Christian - BLANCH, Ewan W. - JAYSON, Grodon C. - GARDINER, John M. Synthesis of heparin-related GlcN-IdoA sulfation-site variable disaccharide library and analysis by Raman and ROA spectroscopy. In *Carbohydrate Research*, 2014, vol. 400, p. 44-53. (2013: 1.966 - IF, 0.639 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] KARARNANOS, Nikos K. - PIPERIGKOU, Zoi - THEOCHARIS, Achilleas D. - WATANABE, Hideto - FRANCHI, Marco - BAUD, Stephanie - BREZILLON, Stephane - GOETTE, Martin - PASSI, Alberto - VIGETTI, Davide - RICARD-BLUM, Sylvie - SANDERSON, Ralph D. - NEILL, Thomas - IOZZO, Renato V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 18,

- ADCA492 *pp. 9152-9232., Registrované v: WOS*  
 MIRABELLA, Stefania - D'ADAMIO, Giampiero - MATASSINI, Camilla - GOTI, Andrea - DELGADO, Sandra - GIMENO, Ana - ROBINA, Inmaculada - MORENO-VARGAS, Antonio J. - ŠESTÁK, Sergej - JIMÉNEZ-BARBERO, Jesus - CARDONA, Francesca. Mechanistic insight into the binding of multivalent pyrrolidines to alpha-mannosidases. In *Chemistry -A European Journal*, 2017, vol. 23, p. 14585-14596. (2016: 5.317 - IF, Q1 - JCR, 2.352 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0947-6539.
- Citácie:  
 1. [1.1] HOWARD, Eduardo - COUSIDO-SIAH, Alexandra - LEPAGE, Mathieu L. - SCHNEIDER, Jeremy P. - BODLENNER, Anne - MITSCHLER, Andre - MELI, Alessandra - IZZO, Irene - ARIEL ALVAREZ, H. - PODJARNY, Alberto - COMPAIN, Philippe. Structural Basis of Outstanding Multivalent Effects in Jack Bean Mannosidase Inhibition. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 27, pp. 8002-8006., Registrované v: WOS  
 2. [1.1] NIERENGARTEN, Jean-Francois - SCHNEIDER, Jeremy P. - THI MINH NGUYET TRINH - JOOSTEN, Antoine - HOLLER, Michel - LEPAGE, Mathieu L. - BODLENNER, Anne - GARCIA-MORENO, M. Isabel - ORTIZ MELLET, Carmen - COMPAIN, Philippe. Giant Glycosidase Inhibitors: First- and Second-Generation Fullerodendrimers with a Dense Iminosugar Shell. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 10, pp. 2483-2492., Registrované v: WOS
- ADCA493 MIRANDE, C. - KADLEČÍKOVÁ, E. - MATULOVÁ, Mária - CAPEK, Peter - BERNALIER-DONADILLE, A. - FORANO, E. - BÉRA-MAILLET, C. Dietary fibre degradation and fermentation by two xylanolytic bacteria *Bacteroides xylanisolvens* XB1A T and *Roseburia intestinalis* XB6B4 from human intestine. In *Journal of Applied Microbiology*, 2010, vol. 109, p. 451-460. (2009: 2.098 - IF, karentované - CCC). (2010 - Current Contents). ISSN 1364-5072.
- Citácie:  
 1. [1.1] CAMPISCIANO, G. - PALMISANO, S. - CASON, C. - GIURICIN, M. - SILVESTRI, M. - GUERRA, M. - MACOR, D. - DE MANZINI, N. - CROCE, L. S. - COMAR, M. Gut microbiota characterisation in obese patients before and after bariatric surgery. In *BENEFICIAL MICROBES*. ISSN 1876-2883, 2018, vol. 9, no. 3, pp. 367-373., Registrované v: WOS  
 2. [1.1] FENG, Guangli - FLANAGAN, Bernadine M. - MIKKELSEN, Deirdre - WILLIAMS, Barbara A. - YU, Wenwen - GILBERT, Robert G. - GIDLEY, Michael J. Mechanisms of utilisation of arabinoxylans by a porcine faecal inoculum: competition and co-operation. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS  
 3. [1.1] FERNANDES, Carlos - BENFEITO, Sofia - FONSECA, Andre - OLIVEIRA, Catarina - GARRIDO, Jorge - MANUELA GARRIDO, E. - BORGES, Fernanda. PHOTODAMAGE AND PHOTOPROTECTION: TOWARD SAFETY AND SUSTAINABILITY THROUGH NANOTECHNOLOGY SOLUTIONS. In *FOOD PRESERVATION*, 2017, vol. 6, no., pp. 527-565., Registrované v: WOS  
 4. [1.1] LEONG, Claudia - HASZARD, Jillian J. - LAWLEY, Blair - OTAL, Anna - TAYLOR, Rachael W. - SZYMLEK-GAY, Ewa A. - FLEMING, Elizabeth A. - DANIELS, Lisa - FANGUPO, Louise J. - TANNOCK, Gerald W. - HEATH, Anne-Louise M. Mediation Analysis as a Means of Identifying Dietary Components That Differentially Affect the Fecal Microbiota of Infants Weaned by Modified Baby-Led and Traditional Approaches. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 18, pp., Registrované v: WOS  
 5. [1.1] LETH, Maria Louise - EJB, Morten - WORKMAN, Christopher - EWALD, David Adrian - PEDERSEN, Signe Schultz - STERNBERG, Claus - BAHL, Martin Iain - LICHT, Tine Rask - AACHMANN, Finn Lillelund - WESTERENG, Borge - ABOU HACHEM, Maher. Differential bacterial capture and transport preferences facilitate co-growth on dietary xylan in the human gut. In *NATURE MICROBIOLOGY*. ISSN 2058-5276, 2018, vol. 3, no. 5, pp. 570-580., Registrované v: WOS  
 6. [1.1] SALMEAN, Armando A. - GUILLOUZO, Alexia - DUFFIEUX, Delphine - JAM, Murielle - MATARD-MANN, Maria - LAROCQUE, Robert - PEDERSEN, Henriette L. - MICHEL, Gurvan - CZJZEK, Mirjam - WILLATS, William G. T. - HERVE, Cecile. Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS  
 7. [1.1] TURRONI, Francesca - MILANI, Christian - DURANTI, Sabrina - MAHONY, Jennifer - VAN SINDEREN, Douwe - VENTURA, Marco. Glycan Utilization and Cross-Feeding Activities by *Bifidobacteria*. In *TRENDS IN MICROBIOLOGY*. ISSN 0966-842X, 2018, vol. 26, no. 4, pp. 339-350., Registrované v: WOS  
 8. [1.1] UNGERFELD, Emilio M. - LEIGH, Mary Beth - FORSTER, Robert J. - BARBOZA, Perry S. Influence of Season and Diet on Fiber Digestion and Bacterial Community Structure in the



- Rumen of Muskoxen (Ovibos moschatus). In MICROORGANISMS. ISSN 2076-2607, 2018, vol. 6, no. 3, pp., Registrované v: WOS*
9. [1.1] WALUJKAR, Sandeep A. - KUMBHARE, Shreyas V. - MARATHE, Nachiket P. - PATANGIA, Dharti V. - LAWATE, Parimal S. - BHARADWAJ, Renu S. - SHOUCHE, Yogesh S. *Molecular profiling of mucosal tissue associated microbiota in patients manifesting acute exacerbations and remission stage of ulcerative colitis. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 6, pp., Registrované v: WOS*
10. [1.1] ZHANG, Tiehua - YANG, Yang - LIANG, Yuan - JIAO, Xu - ZHAO, Changhui. *Beneficial Effect of Intestinal Fermentation of Natural Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2018, vol. 10, no. 8, pp., Registrované v: WOS*
- ADCA494 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - GEMEINER, Peter. Modulation of biorecognition of glucoamylases with Concanavalin A by glycosylation via recombinant expression. In International Journal of Biological Macromolecules, 2006, vol. 39, p. 286-290. (2006 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] BAYRAKTAROGLU, M. - ORHAN, H. - EVLI, S. - AKGOL, S. - UYGUN, D.A. - UYGUN, M. *Lectin attached affinity cryogels for amyloglucosidase adsorption. In JOURNAL OF CARBOHYDRATE CHEMISTRY. 2018, vol. 37, no. 5, p. 302-317., Registrované v: WOS*
- ADCA495 MISLOVIČOVÁ, Danica - GEMEINER, Peter - SANDULA, Jozef - MASÁROVÁ, Jana - VIKARTOVSKÁ, Alica - Welwardová - DOČOLOMANSKÝ, Peter. Examination of bioaffinity immobilization by precipitation of mannan and mannan-containing enzymes with legume lectins. In Biotechnology and Applied Biochemistry, 2000, vol. 31, p. 153-159. (2000 - Current Contents). ISSN 0885-4513.
- Citácie:
1. [1.1] BAYRAKTAROGLU, Melis - ORHAN, Hande - EVLI, Sinem - AKGOL, Sinan - UYGUN, Deniz Aktas - UYGUN, Murat. *Lectin attached affinity cryogels for amyloglucosidase adsorption. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2018, vol. 37, no. 5, pp. 302-317., Registrované v: WOS*
2. [1.2] GABAL, M. A. - AL-ZHRANI, N. H. - AL ANGARI, Y. M. - SAAED, A. *Substitution effect on the structural, magnetic, and electrical properties of  $\text{Co}_{1-x}\text{Zn}_x\text{FeO}$  nanocrystalline ferrites ( $x = 0-1$ ) prepared via gelatin auto-combustion method. In IEEE Transactions on Magnetics. ISSN 00189464, 2018-01-01, 54, 1, pp., Registrované v: SCOPUS*
- ADCA496 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - ŠVITEL, J. - ŠOLTÉS, Ladislav - GEMEINER, Peter - DANIELSSON, B. - MENDICHI, Raniero. Neoglycoconjugates of mannan with bovine serum albumin and their interaction with lectin concanavalin A. In Bioconjugate chemistry. - Washington : American Chemical Society, 2002, vol. 13, p. 136-142. (2001: 3.044 - IF). ISSN 1043-1802.
- Citácie:
1. [1.1] WU, Y. - YAN, C. - HE, J. - XIONG, W. - WU, S. - LIU, S. - CAI, Z. *Reversible Mannosylation as a Covalent Binding Adjuvant Enhances Immune Responses for Porcine Circovirus Type 2 Vaccine. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 12, p. 17341-17347., Registrované v: WOS*
- ADCA497 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - BUČKO, Marek - GEMEINER, Peter. Stability of penicillin G acylase modified with various polysaccharides. In Enzyme and Microbial Technology, 2006, vol. 39, p. 579-585. (2006 - Current Contents). ISSN 0141-0229.
- Citácie:
1. [1.1] VARDAR, Gokay - ALTIKATOGLU, Melda - BASARAN, Yeliz - ISILDAK, Ibrahim. *Synthesis of glucose oxidase-PEG aldehyde conjugates and improvement of enzymatic stability. In ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY. ISSN 2169-1401, 2018, vol. 46, no. 4, pp. 788-794., Registrované v: WOS*
2. [1.1] WEHAIDY, Hala Refaat - ABDEL-NABY, Mohamed Ahmed - SHOUSHA, Wafaa Ghoneim - ELMALLAH, Mohammed I. Y. - SHAWKY, Michael Mounir. *Improving the catalytic, kinetic and thermodynamic properties of Bacillus subtilis KU710517 milk clotting enzyme via conjugation with polyethylene glycol. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 296-301., Registrované v: WOS*
3. [1.1] ZOU, Shu-Ping - XUAN, Xiu-Ling - WANG, Zhi-Jian - ZHENG, Yu-Guo. *Conjugation of Agrobacterium radiobacter epoxide hydrolase with ficoll: Catalytic, kinetic and thermodynamic analysis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 119, no., pp. 1098-1105., Registrované v: WOS*
4. [1.2] LIU, Donglei - CHEN, Zhenbin - LONG, Jiapeng - ZHAO, Yingyu - DU, Xueyan. *Immobilization of Penicillin Acylase on Macroporous Adsorption Resin CLX1180 Carrier. In Advances in Polymer Technology. ISSN 07306679, 2018-04-01, 37, 3, pp. 753-760., Registrované*

- v: *SCOPUS*
- ADCA498 MISLOVIČOVÁ, Danica - MICHÁLKOVÁ, E. - VIKARTOVSKÁ, Alica, Welwardová. Immobilized glucose oxidase on different supports for biotransformation removal of glucose from oligosaccharide mixture. In *Process Biochemistry*, 2007, vol. 42, p. 704-709.
- Citácie:
- [1.1] HUANG, Jinsha - ZHUANG, Wei - WEI, Ce - MU, Liwen - ZHU, Jiahua - ZHU, Yudan - WU, Jinglan - CHEN, Yong - YING, Hanjie. Concanavalin A induced orientation immobilization of Nuclease P-1: The effect of lectin agglutination. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 64, no., pp. 160-169., Registrované v: WOS
  - [1.1] VARDAR, Gokay - ALTIKATOGLU, Melda - BASARAN, Yeliz - ISILDAK, Ibrahim. Synthesis of glucose oxidase-PEG aldehyde conjugates and improvement of enzymatic stability. In *ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY*. ISSN 2169-1401, 2018, vol. 46, no. 4, pp. 788-794., Registrované v: WOS
  - [1.1] ZHAO, Bin - ZHOU, Liya - MA, Li - HE, Ying - GAO, Jing - LI, Dan - JIANG, Yanjun. Co-immobilization of glucose oxidase and catalase in silica inverse opals for glucose removal from commercial isomaltooligosaccharide. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2034-2043., Registrované v: WOS
  - [1.2] PEČAR, D. - VASIĆ-RAČKI, D. - VRSALOVIĆ PRESEČKI, A. Immobilization of glucose oxidase on Eupergit C: Impact of aeration, kinetic and operational stability studies of free and immobilized enzyme. In *Chemical and Biochemical Engineering Quarterly*. ISSN 03529568, 2018-01-01, 32, 4, pp. 511-522., Registrované v: SCOPUS
- ADCA499 MLČOCHOVÁ, D. - BYSTRICKÝ, Slavomír - STEINER, Bohumil - MACHOVÁ, Eva - KOŮŠ, Miroslav - VELEBNÝ, V. - KRČMÁŘ, M. Synthesis and characterization of new biodegradable hyaluronan alkyl derivatives. In *Biopolymers*, 2006, vol. 82, p. 74-79. ISSN 0006-3525.
- Citácie:
- [1.1] ABU ELELLA, Mahmoud H. - MOHAMED, Riham R. - SABAA, Magdy W. Synthesis of novel grafted hyaluronic acid with antitumor activity. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 189, no., pp. 107-114., Registrované v: WOS
  - [1.1] FALLACARA, Arianna - BALDINI, Erika - MANFREDINI, Stefano - VERTUANI, Silvia. Hyaluronic Acid in the Third Millennium. In *POLYMERS*, 2018, vol. 10, no. 7, pp., Registrované v: WOS
  - [1.1] KOEWITSCH, Alexander - ZHOU, Guoying - GROTH, Thomas. Medical application of glycosaminoglycans: a review. In *JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE*. ISSN 1932-6254, 2018, vol. 12, no. 1, pp. E23-E41., Registrované v: WOS
  - [1.1] MUSILOVA, Lenka - MRACEK, Ales - KOVALCIK, Adriana - SMOLKA, Petr - MINARIK, Antonin - HUMPOLICEK, Petr - VICHA, Robert - PONIZIL, Petr. Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 181, no., pp. 394-403., Registrované v: WOS
- ADCA500 MOJUMDAR, Subhash Chandra - RAY, A. - DRÁBIK, Milan - CIGÁŇ, Alexander - HANIC, František - CAPEK, Peter. Macro-Defect-Free (MDF) cements with high moisture resistance: chemical, thermal, SEM and magnetometric study. In *Solid State Phenomena*, 2003, vol. 90-91, p. 365-370. (2003 - Current Contents). ISSN 1012-0394.
- Citácie:
- [1.1] TOMAR, Priyanka - LAKHANI, Rajni - CHHIBBER, V. K. - KUMAR, Rajesh. Macro-defect free cements: a future oriented polymer composite materials for construction industries. In *COMPOSITE INTERFACES*. ISSN 0927-6440, 2018, vol. 25, no. 5-7, pp. 607-627., Registrované v: WOS
- ADCA501 MOLNÁROVÁ, Jana - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Extracellular enzymatic activities and physiological profiles of yeasts colonizing fruit trees. In *Journal of Basic Microbiology*, 2014, vol. 54, p. S74-S84. (2013: 1.822 - IF, 0.536 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0233-111X.
- Citácie:
- [1.1] CLAUS, Harald - MOJSOV, Kiro. Enzymes for Wine Fermentation: Current and Perspective Applications. In *FERMENTATION-BASEL*, 2018, vol. 4, no. 3, pp., Registrované v: WOS
  - [1.1] HERNANDEZ, A. - PEREZ-NEVADO, F. - RUIZ-MOYANO, S. - SERRADILLA, M. J. - VILLALOBOS, M. C. - MARTIN, A. - CORDOBA, M. G. Spoilage yeasts: What are the sources of contamination of foods and beverages? In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2018, vol. 286, no., pp. 98-110., Registrované v: WOS
  - [1.1] PRETSCHER, Julia - FISCHKAL, Tilman - BRANSCHIEDT, Sina - JAEGER, Lucas - KAHL, Susann - SCHLANDER, Martina - THINES, Eckhard - CLAUS, Harald. Yeasts from



*Different Habitats and Their Potential as Biocontrol Agents. In FERMENTATION-BASEL, 2018, vol. 4, no. 2, pp., Registrované v: WOS*

4. [1.1] ROTOLO, Caterina - ANGELINI, Rita M. De Miccolis - DONGIOVANNI, Crescenza - POLLASTRO, Stefania - FUMAROLA, Giulio - DI CAROLO, Michele - PERRELLI, Donato - NATALE, Patrizia - FARETRA, Francesco. Use of biocontrol agents and botanicals in integrated management of *Botrytis cinerea* in table grape vineyards. In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2018, vol. 74, no. 3, pp. 715-725., Registrované v: WOS

5. [1.1] TURK, Martina - GOSTINTAR, Cene. Glycerol metabolism genes in *Aureobasidium pullulans* and *Aureobasidium subglaciale*. In FUNGAL BIOLOGY. ISSN 1878-6146, 2018, vol. 122, no. 1, pp. 63-73., Registrované v: WOS

ADCA502 MONOŠÍK, Rastislav - MAGDOLEN, Peter - STREĎANSKÝ, Miroslav - ŠTURDÍK, Ernest. Monitoring of monosaccharides, oligosaccharides, ethanol and glycerol during wort fermentation by biosensors, HPLC and spectrophotometry. In Food Chemistry, 2013, vol. 138, p. 220-226. (2012: 3.334 - IF, 1.805 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0308-8146.

Citácie:

1. [1.1] DE SA, Acelino Cardoso - CIPRI, Andrea - GONZALEZ-CALABUIG, Andreu - STRADIOTTO, Nelson Ramos - DEL VALLE, Manel. Multivariate Determination of Total Sugar Content and Ethanol in Bioethanol Production Using Carbon Electrodes Modified with MWCNT/MeOOH and Chemometric Data Treatment. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 8, pp. 1688-1697., Registrované v: WOS

2. [1.1] IWASA, Hisanori - OZAWA, Kazumichi - SASAKI, Noriko - KINOSHITA, Nao - YOKOYAMA, Kenji - HIRATSUKA, Atsunori. Fungal FAD-dependent glucose dehydrogenases concerning high activity, affinity, and thermostability for maltose-insensitive blood glucose sensor. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2018, vol. 140, no., pp. 115-122., Registrované v: WOS

3. [1.1] SZILAGYI, Tamas Gabor - VECSEI, Beata Hegyesne - KISS, Zsuzsanna - HAJBA, Laszlo - GUTTMAN, Andras. Analysis of the oligosaccharide composition in wort samples by capillary electrophoresis with laser induced fluorescence detection. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 256, no., pp. 129-132., Registrované v: WOS

4. [1.1] XIE, Taiping - XU, Longjun - LIU, Chenglun - BI, Zhiming. An effective approach to improve ethanol productivity by simultaneous saccharification and fermentation of rice straw. In INTERNATIONAL JOURNAL OF GREEN ENERGY. ISSN 1543-5075, 2018, vol. 15, no. 10, pp. 545-549., Registrované v: WOS

ADCA503 MONOŠÍK, Rastislav - STREĎANSKÝ, Miroslav - TKÁČ, Ján - ŠTURDÍK, Ernest. Application of enzyme biosensors in Analysis of food and beverages. In Food Analytical Methods, 2012, vol. 5, p. 40-53. (2011: 1.943 - IF, 0.579 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1936-9751.

Citácie:

1. [1.1] BERGMAN, Jenny - MELLANDER, Lisa - WANG, Yuanmo - CANS, Ann-Sofie. Co-Detection of Dopamine and Glucose with High Temporal Resolution. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 1, pp., Registrované v: WOS

2. [1.1] BERGMAN, Jenny - WANG, Yuanmo - WIGSTROM, Joakim - CANS, Ann-Sofie. Counting the number of enzymes immobilized onto a nanoparticle-coated electrode. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 6, pp. 1775-1783., Registrované v: WOS

3. [1.1] GUADARRAMA-FERNANDEZ, Leonor - NOVELL, Marta - BLONDEAU, Pascal - ANDRADE, Francisco J. A disposable, simple, fast and low-cost paper-based biosensor and its application to the determination of glucose in commercial orange juices. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 265, no., pp. 64-69., Registrované v: WOS

4. [1.1] REYES-DE-CORCUERA, Jose I. - OLSTAD, Hanna E. - GARCIA-TORRES, Rosalia. Stability and Stabilization of Enzyme Biosensors: The Key to Successful Application and Commercialization. In ANNUAL REVIEW OF FOOD SCIENCE AND TECHNOLOGY, VOL 9. ISSN 1941-1413, 2018, vol. 9, no., pp. 293-322., Registrované v: WOS

5. [1.2] SOROPOGUI, Keamou M. - JAMEEL, Ahmad T. - SALIM, Wan Wardatul A.W. Enzyme-based biosensors for electrochemical detection of pesticides—A mini review. In Indonesian Journal of Electrical Engineering and Informatics, 2018-06-01, 6, 2, pp. 161-171., Registrované v: SCOPUS

ADCA504 MONOŠÍK, Rastislav - STREĎANSKÝ, Miroslav - LUŠPAI, Karol - MAGDOLEN, Peter - ŠTURDÍK, Ernest. Amperometric glucose biosensor utilizing FAD-dependent glucose dehydrogenase immobilized on nanocomposite electrode. In Enzyme and Microbial Technology, 2012, vol. 50, p. 227-232. ISSN 0141 0229.

Citácie:

1. [1.1] ISHIDA, Kazuya - ORIHARA, Kouhei - MUGURUMA, Hitoshi - IWASA, Hisanori -

- HIRATSUKA, Atsunori - TSUJI, Katsumi - KISHIMOTO, Takahide. Comparison of Direct and Mediated Electron Transfer in Electrodes with Novel Fungal Flavin Adenine Dinucleotide Glucose Dehydrogenase. In *ANALYTICAL SCIENCES*. ISSN 0910-6340, 2018, vol. 34, no. 7, pp. 783-787., Registrované v: WOS
2. [1.1] IWASA, Hisanori - OZAWA, Kazumichi - SASAKI, Noriko - KINOSHITA, Nao - YOKOYAMA, Kenji - HIRATSUKA, Atsunori. Fungal FAD-dependent glucose dehydrogenases concerning high activity, affinity, and thermostability for maltose-insensitive blood glucose sensor. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 140, no., pp. 115-122., Registrované v: WOS
3. [1.1] NAVAEE, Aso - SALIMI, Abdollah. FAD-based glucose dehydrogenase immobilized on thionine/AuNPs frameworks grafted on amino-CNTs: Development of high power glucose biofuel cell and biosensor. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2018, vol. 815, no., pp. 105-113., Registrované v: WOS
4. [1.1] RIEDEL, Marc - PARAK, Wolfgang J. - RUFF, Adrian - SCHUHMANN, Wolfgang - LISDAT, Fred. Light as Trigger for Biocatalysis: Photonic Wiring of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase to Quantum Dot-Sensitized Inverse Opal TiO<sub>2</sub> Architectures via Redox Polymers. In *ACS CATALYSIS*. ISSN 2155-5435, 2018, vol. 8, no. 6, pp. 5212-5220., Registrované v: WOS

ADCA505

MOORE, Laura - GROBÁROVÁ, Valéria - SHEN, Helen - MAN, Han Bin - MIČOVÁ, Júlia - LEDVINA, Miroslav - ŠTURSA, Ján - NESLÁDEK, Miloš - FIŠEROVÁ, Anna - HO, Dean. Comprehensive interrogation of the cellular response to fluorescent, detonation and functionalized nanodiamonds. In *Nanoscale*, 2014, vol. 6, p. 11712-11721. (2013: 6.739 - IF, 2.550 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 2040-3364.

Citácie:

1. [1.1] CHIPAUX, Mayeul - VAN DER LAAN, Kiran J. - HEMELAAR, Simon R. - HASANI, Masoumeh - ZHENG, Tingting - SCHIRHAGL, Romana. Nanodiamonds and Their Applications in Cells. In *SMALL*. ISSN 1613-6810, 2018, vol. 14, no. 24, pp., Registrované v: WOS
2. [1.1] DOMINGUEZ, Gustavo A. - TORELLI, Marco D. - BUCHMAN, Joseph T. - HAYNES, Christy L. - HAMERS, Robert J. - KLAPER, Rebecca D. Size dependent oxidative stress response of the gut of *Daphnia magna* to functionalized nanodiamond particles. In *ENVIRONMENTAL RESEARCH*. ISSN 0013-9351, 2018, vol. 167, no., pp. 267-275., Registrované v: WOS
3. [1.1] HAPPEL, Patrick - WAAG, Thilo - SCHIMKE, Magdalena - SCHWEEBERG, Sarah - MUZHA, Andreas - FORTAK, Katrin - HEESCH, Daniel - KLASK, Laura - PILSCHEUR, Mathias - HOPPE, Franziska - LENDERS, Thomas - MEIJER, Jan - LEPPERDINGER, Guenter - KRUEGER, Anke. Intrinsically P-32-Labeled Diamond Nanoparticles for In Vivo Imaging and Quantification of Their Biodistribution in Chicken Embryos. In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, 2018, vol. 28, no. 36, pp., Registrované v: WOS
4. [1.1] HEMELAAR, Simon R. - SASPAANITHY, Babuji - L'HOMMELET, Severin R. M. - MARTINEZ, Felipe P. Perona - VAN DER LAAN, Kiran J. - SCHIRHAGL, Romana. The Response of HeLa Cells to Fluorescent NanoDiamond Uptake. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 2, pp., Registrované v: WOS
5. [1.1] VAN DER LAAN, Kiran J. - HASANI, Masoumeh - ZHENG, Tingting - SCHIRHAGL, Romana. Nanodiamonds for In Vivo Applications. In *SMALL*. ISSN 1613-6810, 2018, vol. 14, no. 19, pp., Registrované v: WOS
6. [1.1] WOODHAMS, Benjamin - ANSEL-BOLLEPALLI, Laura - SURMACKI, Jakub - KNOWLES, Helena - MAGGINI, Laura - DE VOLDER, Michael - ATATURE, Mete - BOHNDIEK, Sarah. Graphitic and oxidised high pressure high temperature (HPHT) nanodiamonds induce differential biological responses in breast cancer cell lines. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 25, pp. 12169-12179., Registrované v: WOS

ADCA506

MORRIS, G.A. - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna - ALFOLDI, Juraj - HARDING, S.E. Modification of pectin with UV-absorbing substituents and its effect on the structural and hydrodynamic properties of the water-soluble derivatives. In *Carbohydrate Polymers*, 2002, vol. 48, p. 351-359. (2001: 1.203 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] MOMENI, Mojtaba - TABIBIAZAR, Mahnaz - KHORRAM, Sirous - ZAKERHAMIDI, Mohammadsadegh - MOHAMMADIFAR, Mohammadamin - VALIZADEH, Hadi - GHORBANI, Marjan. Pectin modification assisted by nitrogen glow discharge plasma. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 2572-2578., Registrované v: WOS

ADCA507

MOSNÁČEK, Jaroslav - POPELKA, Anton - OSIČKA, Josef - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KOLLÁR, Jozef - YOUSAF, Ammar B. - BERTÓK, Tomáš - TKÁČ, Ján - KASÁK, Peter\*. Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion

exchange and pH. In *Journal of Colloid and Interface Science*, 2018, vol. 512, p. 511-521. (2017: 5.091 - IF, Q1 - JCR, 1.221 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-9797.

Citácie:

1. [1.1] SUMAROKOVA, M. - ITURRI, J. - WEBER, A. - MAARES, M. - KEIL, C. - HAASE, H. - TOCA-HERRERA, J.L. *Influencing the adhesion properties and wettability of mucin protein films by variation of the environmental pH. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 25 2018, vol. 8., Registrované v: WOS*
2. [1.1] XU, Q.L. - LI, Y. - ZHU, Y.H. - ZHAO, K.C. - GU, R. - ZHU, Q.S. *Recombinant human BMP-7 grafted poly(lactide-co-glycolide)/hydroxyapatite scaffolds via polydopamine for enhanced calvarial repair. In RSC ADVANCES. ISSN 2046-2069, 2018, vol. 8, no. 48, p. 27191-27200., Registrované v: WOS*

ADCA508

MUCHA, Ján - SVOBODA, B. - KAPPEL, S. - STRASSER, R. - BENCUR, P. - FROHWEIN, U. - SCHACHTER, H. - MACH, L. - GLOSS, J. *Two closely related forms of UDP-GlcNAc:  $\alpha$ 6-D-mannoside  $\beta$ 1,2-N-acetylglucosaminyl-transferase II occur in the clawed frog *Xenopus laevis*. In Glycoconjugate journal, 2003, vol. 19, p. 187-195. ISSN 0282-0080.*

Citácie:

1. [1.2] MIYAZAKI, Takatsugu - KATO, Tatsuya - PARK, Enoch Y. *Heterologous expression, purification and characterization of human  $\beta$ -1,2-N-acetylglucosaminyltransferase II using a silkworm-based *Bombyx mori* nucleopolyhedrovirus bacmid expression system. In Journal of Bioscience and Bioengineering. ISSN 13891723, 2018-07-01, 126, 1, pp. 15-22., Registrované v: SCOPUS*

ADCA509

NABARLATZ, D. - EBRINGEROVÁ, Anna - MONTANÉ, D. *Autohydrolysis of agricultural by-products for the production of xylo-oligosaccharides. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2007, vol. 69, p. 20-28. (2006: 1.784 - IF). ISSN 0144-8617.*

Citácie:

1. [1.1] AHMAD, Norlailiza - ZAKARIA, Mohd Rafein - YUSOFF, Mohd Zulkhairi Mohd - FUJIMOTO, Shinji - INOUE, Hiroyuki - ARIFFIN, Hidayah - HASSAN, Mohd Ali - SHIRAI, Yoshihito. *Subcritical Water-Carbon Dioxide Pretreatment of Oil Palm Mesocarp Fiber for Xylooligosaccharide and Glucose Production. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 6, pp., Registrované v: WOS*
2. [1.1] AUDU, Idi Guga - BROSE, Nicolas - WINTER, Heiko - HOFFMANN, Anton - BREMER, Martina - FISCHER, Steffen - LABORIE, Marie-Pierre. *Acetyl Groups in *Typha capensis*: Fate of Acetates during Organosolv and Ionosolv Pulping. In POLYMERS, 2018, vol. 10, no. 6, pp., Registrované v: WOS*
3. [1.1] DE HOYOS-MARTINEZ, Pedro L. - ERDOCIA, Xabier - CHARRIER-EL BOUHTOURY, Fatima - PRADO, Raquel - LABIDI, Jalel. *Multistage treatment of almonds waste biomass: Characterization and assessment of the potential applications of raw material and products. In WASTE MANAGEMENT. ISSN 0956-053X, 2018, vol. 80, no., pp. 40-50., Registrované v: WOS*
4. [1.1] HO, Ai Ling - KOSIK, Ondrej - LOVEGROVE, Alison - CHARALAMPOPOULOS, Dimitris - RASTALL, Robert A. *In vitro fermentability of xylo-oligosaccharide and xylo-polysaccharide fractions with different molecular weights by human faecal bacteria. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 50-58., Registrované v: WOS*
5. [1.1] HUERTA, Raquel Razzera - SALDANA, Marleny D. A. *Pressurized fluid treatment of barley and canola straws to obtain carbohydrates and phenolics. In JOURNAL OF SUPERCRITICAL FLUIDS. ISSN 0896-8446, 2018, vol. 141, no., pp. 12-20., Registrované v: WOS*
6. [1.1] JIANG, Zhicheng - BUDARIN, Vitaliy L. - FAN, Jiajun - REMON, Javier - LI, Tianzong - HU, Changwei - CLARK, James H. *Sodium Chloride-Assisted Depolymerization of Xylo-oligomers to Xylose. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2018, vol. 6, no. 3, pp. 4098-+, Registrované v: WOS*
7. [1.1] JNAWALI, Prakriti - KUMAR, Vikas - TANWAR, Beenu - HIRDIYANI, Harsha - GUPTA, Prerna. *Enzymatic Production of Xylooligosaccharides from Brown Coconut Husk Treated with Sodium Hydroxide. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2018, vol. 9, no. 10, pp. 1757-1766., Registrované v: WOS*
8. [1.1] LAMB, Christiano de C. - ZACARIAS DA SILVA, Bruna Martini - DE SOUZA, Diego - FORNASIER, Francesca - RICA, Larissa Brixner - DE SOUZA SCHNEIDER, Rosana de Cassia. *Bioethanol production from rice hull and evaluation of the final solid residue. In CHEMICAL ENGINEERING COMMUNICATIONS. ISSN 0098-6445, 2018, vol. 205, no. 6, pp. 833-845., Registrované v: WOS*
9. [1.1] LIU, Lei - REN, Jiwei - ZHANG, Yitong - LIU, Xinlu - OUYANG, Jia. *Simultaneously*



separation of xylo-oligosaccharide and lignosulfonate from wheat straw magnesium bisulfite pretreatment spent liquor using ion exchange resin. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 249, no., pp. 189-195., Registrované v: WOS

10. [1.1] MENEZES, Bruna da Silva - ROSSI, Daniele Misturini - SQUINA, Fabio - ZACHIA AYUB, Marco Antonio. Comparative production of xylanase and the liberation of xylooligosaccharides from lignocellulosic biomass by *Aspergillus brasiliensis* BLf1 and recombinant *Aspergillus nidulans* XynC A773. In *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 0950-5423, 2018, vol. 53, no. 9, pp. 2110-2118., Registrované v: WOS

11. [1.1] MICHELIN, Michele - LIEBENTRITT, Simon - VICENTE, Antonio A. - TEIXEIRA, Jose Antonio. Lignin from an integrated process consisting of liquid hot water and ethanol organosolv: Physicochemical and antioxidant properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 120, no., pp. 159-169., Registrované v: WOS

12. [1.1] REN, Jiwei - LIU, Lei - ZHOU, Jie - LI, Xin - OUYANG, Jia. Co-production of ethanol, xylo-oligosaccharides and magnesium lignosulfonate from wheat straw by a controlled magnesium bisulfite pretreatment (MBSP). In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 113, no., pp. 128-134., Registrované v: WOS

13. [1.1] RICO, Xiana - GULLON, Beatriz - LUIS ALONSO, Jose - CARLOS PARAJO, Juan - YANEZ, Remedios. Valorization of peanut shells: Manufacture of bioactive oligosaccharides. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 183, no., pp. 21-28., Registrované v: WOS

14. [1.1] SOPHONPUTTANAPHOCA, Supaporn - PRIDAM, Chanoknun - CHINNAK, Jiraporn - NATHONG, Mintita - JUNTIPWONG, Preeyaporn. Production of non-digestible oligosaccharides as value-added by-products from rice straw. In *Agriculture and Natural Resources*. ISSN 2452316X, 2018-04-01, 52, 2, pp. 169-175., Registrované v: WOS

15. [1.1] SOUSA LIMA, Diego Roberto - HERRERA ADARME, Oscar Fernando - LOBO BAETA, Bruno Eduardo - ALVES GURGEL, Leandro Vinicius - DE AQUINO, Sergio Francisco. Influence of different thermal pretreatments and inoculum selection on the biomethanation of sugarcane bagasse by solid-state anaerobic digestion: A kinetic analysis. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 111, no., pp. 684-693., Registrované v: WOS

16. [1.2] ACOSTA, Rolando - SANABRIA, Javier - NABARLATZ, Debora. Biomass from colombian agroindustrial activities: Characterization and potential for oligosaccharides production. In *Chemical Engineering Transactions*, 2018-01-01, 65, pp. 667-672., Registrované v: SCOPUS

17. [1.2] WANG, Xiaoyu - LIU, Weina - XIE, Xiangming - YAO, Bin - LUO, Huiying. A highly active GH11 xylanase from *Penicillium* sp. L1 with potential applications in xylo-oligosaccharide production. In *Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology*. ISSN 10003061, 2018-01-25, 34, 1, pp. 68-77., Registrované v: SCOPUS

18. [1.2] ZHANG, Lan Jun - ZHANG, Bao Cai - ZHOU, Yi Hua. Progress on polysaccharide acetylation in plant cell wall. In *Zhiwu Shengli Xuebao/Plant Physiology Journal*. ISSN 20951108, 2018-08-20, 54, 8, pp. 1272-1278., Registrované v: SCOPUS

ADCA510 NABARLATZ, D. - MONTANÉ, D. - KARDOŠOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - HŘÍBALOVÁ, V. - EBRINGEROVÁ, Anna. Almond shell xylo-oligosaccharides exhibiting immunostimulatory activity. In *Carbohydrate Research*, 2007, vol. 342, p. 1122-1128. (2006: 1.703 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] TUNGLAND, Bryan. Overview of Prebiotics: Membership, Physiological Effects and their Health Attributes. In *HUMAN MICROBIOTA IN HEALTH AND DISEASE: PATHOGENESIS TO THERAPY*, 2018, vol., no., pp. 289-348., Registrované v: WOS

2. [1.2] WANG, Li - XUE, Lamei - LI, Yan - QIAN, Haifeng - ZHANG, Hui - QI, Xiguang - WU, Gangcheng. Research progress of physiological activities of xylooligosaccharide. In *Journal of Food Science and Biotechnology*. ISSN 16731689, 2018-01-01, 37, 6, pp. 561-571., Registrované v: SCOPUS

ADCA511 NAGY, T. - NURIZZO, D. - DAVIES, G.J. - BIELY, Peter - LAKEY, J.H. - BOLAM, D.N. - GILBERT, H.J. The  $\alpha$ -glucuronidase, GICA67A, of *Cellvibrio japonicus* utilizes the carboxylate and methyl groups of aldobiouronic acid as important substrate recognition determinants. In *Journal of Biological Chemistry*, 2003, vol. 278, p. 20286-20292. (2002: 6.696 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0021-9258.

Citácie:

1. [3.2] Group Author(s). Uniprot Consortium. B3PC73. IN *UniProt Knowledgebase*, 2018. Dostuné na internete: <http://www.uniprot.org/uniprot/B3PC73>, Registrované v: Data Citation Index

ADCA512 NAGY, Veronika - FELDOLDI, Nóra - KÓNYA, Bálint - PRALY, Jean-Pierre - DOCSA, Tibor -

GERGELY, Pál - CHRYSINA, Evangelia G. - TIRAIDIS, Costas - KOSMOPOULOU, Magda N. - ALEXACOU, Kyra-Melinda - KONSTANTAKAKI, Maria - LEONIDAS, Dametres D. - ZOGRAPHOS, Spyros E. - OIKONOMAKOS, Nikos G. - KOZMON, Stanislav - TVAROŠKA, Igor - SOMSÁK, László. N-(4-substituted-benzoyl)-N'-(beta-D-glucopyranosyl) ureas as inhibitors of glycogen phosphorylase: Synthesis and evaluation by kinetic, crystallographic, and molecular modelling methods. In *Bioorganic & Medicinal Chemistry*, 2012, vol. 20, p. 1801-1816. (2011: 2.921 - IF, 1.145 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0968-0896.

Citácie:

1. [1.1] PSYKARAKIS, Emmanuel E. - CHATZOPOULOU, Elli - GIMISIS, Thanasis. First characterisation of two important postulated intermediates in the formation of a HydT DNA lesion, a thymidine oxidation product. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 13, pp. 2289-2300., Registrované v: WOS

ADCA513 NAHÁLKA, Jozef - MISLOVIČOVÁ, Danica - KAVCOVÁ, Helena. Targeting lectin activity into inclusion bodies for the characterisation of glycoproteins. In *Molecular Biosystems*, 2009, vol. 5, iss. 8, p. 819-821. ISSN 1742-206X.

Citácie:

1. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS

2. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from *E. coli* for 1,5-diaminopentane production. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

ADCA514 NAHÁLKA, Jozef - NAHALKOVA, Jarmila - GEMEINER, Peter - BLANÁRIK, P. Elicitation and plumbagin release to the medium bz chitin in *Drosophyllum lusitanicum* Link. suspension culture. In *Biotechnology Letters*, 1998, vol. 20, p. 841-845. ISSN 0141-5492.

Citácie:

1. [1.1] ELLISON, Aaron M. - ADAMEC, Lubomir. Carnivorous Plants Physiology, ecology, and evolution Preface. In *CARNIVOROUS PLANTS: PHYSIOLOGY, ECOLOGY, AND EVOLUTION*, 2018, vol., no., pp. XXIII-+, Registrované v: WOS

ADCA515 NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - Welwardová - HRABÁROVÁ, Eva. A crosslinked inclusion body process for sialic acid synthesis. In *Journal of Biotechnology*, 2008, vol. 134, p. 146-153. (2008 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] CAMPBELL, Eleanor C. - GRANT, Jacob - WANG, Yi - SANDHU, Mahakaran - WILLIAMS, Richard J. - NISBET, David R. - PERRIMAN, Adam W. - LUPTON, David W. - JACKSON, Colin J. Hydrogel-Immobilized Supercharged Proteins. In *ADVANCED BIOSYSTEMS*, 2018, vol. 2, no. 7, pp., Registrované v: WOS

2. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS

3. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS

4. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from *E. coli* for 1,5-diaminopentane production. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

ADCA516 NAHÁLKA, Jozef - PÄTOPRSTÝ, Vladimír. Enzymatic synthesis of sialylation substrates powered by a novel polyphosphate kinase (PPK3). In *Organic and Biomolecular Chemistry*, 2009, vol. 7, p. 1778-1780. (2008: 3.550 - IF). ISSN 1477-0520.

Citácie:

1. [1.1] CHEN, Rachel. Enzyme and microbial technology for synthesis of bioactive oligosaccharides: an update. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 7, pp. 3017-3026., Registrované v: WOS

2. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS



3. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS
  4. [1.1] KLOSS, Ramona - KARMAINSKI, Tobias - JAEGER, Vera D. - HAHN, Doris - GRUENBERGER, Alexander - BAUMGART, Meike - KRAUSS, Ulrich - JAEGER, Karl-Erich - WIECHERT, Wolfgang - POHL, Martina. Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2018, vol. 8, no. 22, pp. 5816-5826., Registrované v: WOS
  5. [1.1] KLOSS, Ramona - LIMBERG, Michael H. - MACKFELD, Ursula - HAHN, Doris - GRUNBERGER, Alexander - JAEGER, Vera D. - KRAUSS, Ulrich - OLDIGES, Marco - POHL, Martina. Catalytically active inclusion bodies of L-lysine decarboxylase from *E. coli* for 1,5-diaminopentane production. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
  6. [1.1] MAHOUR, Reza - KLAPPROTH, Jan - REXER, Thomas F. T. - SCHILDBACH, Anna - KLAMT, Steffen - PIETZSCH, Markus - RAPP, Erdmann - REICHL, Udo. Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 283, no., pp. 120-129., Registrované v: WOS
  7. [1.1] PARNELL, Alice E. - MORDHORST, Silja - KEMPER, Florian - GIURRANDINO, Mariacarmela - PRINCE, Josh P. - SCHWARZER, Nikola J. - HOFER, Alexandre - WOHLWEND, Daniel - JESSEN, Henning J. - GERHARDT, Stefan - EINSLE, Oliver - OYSTON, Petra C. F. - ANDEXER, Jennifer N. - ROACH, Peter L. Substrate recognition and mechanism revealed by ligand-bound polyphosphate kinase 2 structures. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. ISSN 0027-8424, 2018, vol. 115, no. 13, pp. 3350-3355., Registrované v: WOS
  8. [1.1] TROBO-MASEDA, Lara - ORREGO, Alejandro H. - MORENO-PEREZ, Sonia - FERNANDEZ-LORENTE, Gloria - GUIGAN, Jose M. - ROCHA-MARTIN, Javier. Stabilization of multimeric sucrose synthase from *Acidithiobacillus caldus* via immobilization and post-immobilization techniques for synthesis of UDP-glucose. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 2, pp. 773-787., Registrované v: WOS
- ADCA517 NAHÁLKA, Jozef - NIDETZKY, B. Fusion to a pull-down domain: A novel approach of producing *Trigonopsis variabilis* D-amino acid oxidase as insoluble enzyme aggregates. In *Biotechnology and Bioengineering*, 2007, vol. 97, p. 454-461. (2006: 2.999 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0006-3592.

Citácie:

1. [1.1] ESTEVINHO, Berta N. - SAMANIEGO, Nuria - TALENS-PERALES, David - JOSE FABRA, Maria - LOPEZ-RUBIO, Amparo - POLAINA, Julio - MARIN-NAVARRO, Julia. Development of enzymatically-active bacterial cellulose membranes through stable immobilization of an engineered beta-galactosidase. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no., pp. 476-482., Registrované v: WOS
2. [1.1] HEATER, Bradley S. - LEE, Marianne M. - CHAN, Michael K. Direct production of a genetically-encoded immobilized biodiesel catalyst. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
3. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS
4. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 11, pp., Registrované v: WOS
5. [1.1] JAEGER, Vera D. - LAMM, Robin - KLOSS, Ramona - KAGANOVITCH, Eugen - GRUENBERGER, Alexander - POHL, Martina - BUECHS, Jochen - JAEGER, Karl-Erich - KRAUSS, Ulrich. A Synthetic Reaction Cascade Implemented by Colocalization of Two Proteins within Catalytically Active Inclusion Bodies. In *ACS SYNTHETIC BIOLOGY*. ISSN 2161-5063, 2018, vol. 7, no. 9, pp. 2282-2295., Registrované v: WOS

- ADCA518 NAHÁLKA, Jozef - BLANÁRIK, P. - GEMEINER, Peter - MATÚŠOVÁ, E. - PARTLOVÁ, I. Production of plumbagin by cell suspension cultures of *Drosophyllum lusitanicum* Link. In *Journal of Biotechnology*, 1996, vol. 49, p. 153-161. ISSN 0168-1656.

Citácie:

1. [1.1] ROY, Arpita - BHARADVAJA, Navneeta. Biotechnological Approaches for the Production of Pharmaceutically Important Compound: Plumbagin. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2018, vol. 19, no. 5, pp. 372-381., Registrované v: WOS
2. [1.1] WONGSA, Thanakorn - INTHIMA, Phithak - NAKKUNTOD, Maliwan - PREMJET,

- Duangporn - KONGBANGKARD, Anupan. Effects of Cytokinin and Auxin on In Vitro Organ Development and Plumbagin Content of Drosera peltata Thunb. In AGRIVITA. ISSN 0126-0537, 2018, vol. 40, no. 3, pp. 415-424., Registrované v: WOS*
3. [1.2] GAJULA, Hari - VADLAPUDI, Kumar - VIJENDRA, Poornima D. - RAJASHEKAR, J. - SANNABOMMAJI, Torankumar - BASAPPA, Giridhara - SANTHOSH, T. U. An alternative approach for anticancer compounds production through plant tissue culture techniques. In *Anticancer Plants: Natural Products and Biotechnological Implements*, 2018-01-01, 2, pp. 529-549., Registrované v: SCOPUS
- ADCA519 NAHÁLKA, Jozef - DIB, I. - NIDETZKY, B. Encapsulation of *Trigonopsis variabilis* D-amino acid oxidase and fast comparison of the operational stabilities of free and immobilized preparations of the enzyme. In *Biotechnology and Bioengineering*, 2008, vol. 99, p. 251-260. (2007: 3.037 - IF). ISSN 0006-3592.
- Citácie:
1. [1.2] PEČAR, D. - VASIĆ-RAČKI, D. - VRŠALOVIĆ PRESEČKI, A. Immobilization of glucose oxidase on Eupergit C: Impact of aeration, kinetic and operational stability studies of free and immobilized enzyme. In *Chemical and Biochemical Engineering Quarterly. ISSN 03529568*, 2018-01-01, 32, 4, pp. 511-522., Registrované v: SCOPUS
- ADCA520 NAHÁLKA, Jozef - GEMEINER, Peter. Thermoswitched immobilization – A novel approach in reversible immobilization. In *Journal of Biotechnology*, 2006, vol. 123, p. 478-482. ISSN 0168-1656.
- Citácie:
1. [1.1] ESTEVINHO, Berta N. - SAMANIEGO, Nuria - TALENS-PERALES, David - JOSE FABRA, Maria - LOPEZ-RUBIO, Amparo - POLAINA, Julio - MARIN-NAVARRO, Julia. Development of enzymatically-active bacterial cellulose membranes through stable immobilization of an engineered beta-galactosidase. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130*, 2018, vol. 115, no., pp. 476-482., Registrované v: WOS
- ADCA521 NAHÁLKA, Jozef - GEMEINER, Peter - BUČKO, Marek - WANG, P.G. Bioenergy beads: A tool for regeneration of ATP/NTP in biocatalytic synthesis. In *Artificial Cells, Bloods Substitutes and Biotechnology*, 2006, vol. 34, p. 515-521. ISSN 1073-1199.
- Citácie:
1. [1.1] CAMPBELL, Eleanor C. - GRANT, Jacob - WANG, Yi - SANDHU, Mahakaran - WILLIAMS, Richard J. - NISBET, David R. - PERRIMAN, Adam W. - LUPTON, David W. - JACKSON, Colin J. Hydrogel-Immobilized Supercharged Proteins. In *ADVANCED BIOSYSTEMS*, 2018, vol. 2, no. 7, pp., Registrované v: WOS
2. [1.1] PARNELL, Alice E. - MORDHORST, Silja - KEMPER, Florian - GIURRANDINO, Mariacarmela - PRINCE, Josh P. - SCHWARZER, Nikola J. - HOFER, Alexandre - WOHLWEND, Daniel - JESSEN, Henning J. - GERHARDT, Stefan - EINSLE, Oliver - OYSTON, Petra C. F. - ANDEXER, Jennifer N. - ROACH, Peter L. Substrate recognition and mechanism revealed by ligand-bound polyphosphate kinase 2 structures. In *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424*, 2018, vol. 115, no. 13, pp. 3350-3355., Registrované v: WOS
- ADCA522 NAHÁLKA, Jozef - LIU, Z. Y. - CHEN, X. - WANG, P.G. Superbeads: Immobilization in "sweet" chemistry. In *Chemistry-A European Journal*, 2003, vol. 9, p. 372-377.
- Citácie:
1. [1.1] HUNTER, Carmanah D. - GUO, Tianlin - DASKHAN, Gour - RICHARDS, Michele R. - CAIRO, Christopher W. Synthetic Strategies for Modified Glycosphingolipids and Their Design as Probes. In *CHEMICAL REVIEWS. ISSN 0009-2665*, 2018, vol. 118, no. 17, pp. 8188-8241., Registrované v: WOS
- ADCA523 NAHÁLKA, Jozef. Physiological aggregation of maltodextrin phosphorylase from *Pyrococcus furiosus* and its application in a process of batch starch degradation to alfa-D-glucose-1-phosphate. In *Journal of Industrial Microbiology and Biotechnology : official journal of the Society for Industrial Microbiology*, 2008, vol. 35, pp. 219-223. ISSN 1367-5435 (print).
- Citácie:
1. [1.1] HOFFMANN, Daniel - EBRAHIMI, Mehrdad - GERLACH, Doreen - SALZIG, Denise - CZERMAK, Peter. Reassessment of inclusion body-based production as a versatile opportunity for difficult-to-express recombinant proteins. In *CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551*, 2018, vol. 38, no. 5, pp. 729-744., Registrované v: WOS
2. [1.1] HUMER, Diana - SPADIUT, Oliver. Wanted: more monitoring and control during inclusion body processing. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993*, 2018, vol. 34, no. 11, pp., Registrované v: WOS
3. [1.1] KLOSS, Ramona - KARMAINSKI, Tobias - JAEGER, Vera D. - HAHN, Doris - GRUENBERGER, Alexander - BAUMGART, Meike - KRAUSS, Ulrich - JAEGER, Karl-Erich - WIECHERT, Wolfgang - POHL, Martina. Tailor-made catalytically active inclusion bodies for different applications in biocatalysis. In *CATALYSIS SCIENCE & TECHNOLOGY. ISSN 2044-*

- ADCA524 4753, 2018, vol. 8, no. 22, pp. 5816-5826., Registrované v: WOS  
 NAHÁLKOVÁ, Jarmila - ŠVITEL, J. - GEMEINER, Peter - DANIELSSON, B. - PRIBULOVA, Božena - PETRUŠ, Ladislav. Affinity analysis of lectin interaction with immobilized C- and O-glycosides studied by surface plasmon resonance assay. In Journal of Biochemical and Biophysical Methods, 2002, vol. 52, p. 11-18. ISSN 0165-022X.  
 Citácie:  
 1. [1.1] DAMBORSKY, Pavel - DAMBORSKA, Dominika - BELICKY, Stefan - TKAC, Jan - KATRLIK, Jaroslav. Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. In BIONANOSCIENCE. ISSN 2191-1630, 2018, vol. 8, no. 2, pp. 690-700., Registrované v: WOS
- ADCA525 NAKANO, T. - VOTICKÝ, Zdeno. Buxus alkaloids. IX. The interconversion of cyclobuxine-D and cyclobuxusuffrine. In Journal of Chemical Society C, 1970, p. 590-592.  
 Citácie:  
 1. [1.2] DEV, Sukh - GUPTA, Amrit Sagar. CRC handbook of terpenoids: Triterpenoids: Volume ii: Pentacyclic and hexacyclic triterpenoids. In CRC Handbook of Terpenoids: Triterpenoids: Volume II: Pentacyclic and Hexacyclic Triterpenoids, 2018-01-01, pp. 1-624., Registrované v: SCOPUS
- ADCA526 NARAN, R. - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - PÄTOPRSTÝ, Vladimír. Carbohydrate polymers from underground parts of Cistanche deserticola. In Phytochemistry, 1995, vol. 40., p. 709-715. ISSN 0031-9422.  
 Citácie:  
 1. [1.1] FU, Zhifei - FAN, Xiang - WANG, Xiaoying - GAO, Xiumei. Cistanches Herba: An overview of its chemistry, pharmacology, and pharmacokinetics property. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2018, vol. 219, no., pp. 233-247., Registrované v: WOS
- ADCA527 NAVRATIL, M. - DÖMÉNY, Z. - ŠTURDÍK, E. - ŠMOGROVIČOVÁ, D. - GEMEINER, Peter. Production of non-alcoholic beer using free and immobilized cells of Saccharomyces cerevisiae deficient in the tricarboxylic acid cycle. In Biotechnology and Applied Biochemistry, 2002, vol. 35, p. 133-140. ISSN 0885-4513.  
 Citácie:  
 1. [1.1] JACKOWSKI, Mateusz - TRUSEK, Anna. Non-alcoholic beer production an overview. In POLISH JOURNAL OF CHEMICAL TECHNOLOGY. ISSN 1509-8117, 2018, vol. 20, no. 4, pp. 32-38., Registrované v: WOS  
 2. [1.1] MANGINDAAN, Dave - KHOIRUDDIN, K. - WENTEN, I. G. Beverage dealcoholization processes: Past, present, and future. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2018, vol. 71, no., pp. 36-45., Registrované v: WOS
- ADCA528 NAVRATIL, M. - TKÁČ, Ján - ŠVITEL, J. - DANIELSSON, B. - ŠTURDÍK, E. Monitoring of the bioconversion of glycerol to dihydroxyacetone with immobilized Gluconobacter oxydans cell using thermometric flow injection analysis. In Process Biochemistry, 2001, vol. 36, p. 1045-1052. ISSN 1359-5113.  
 Citácie:  
 1. [1.1] HARON, Roslindawati - MAT, Ramli - ABDULLAH, Tuan Amran Tuan - RAHMAN, Roshanida A. Overview on utilization of biodiesel by-product for biohydrogen production. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2018, vol. 172, no., pp. 314-324., Registrované v: WOS  
 2. [1.1] SUN, Jianrui - GAO, Wenyue - QI, Liming - SONG, Yufeng - HUI, Pan - LIU, Zhongyuan - XU, Guobao. Detection of 1,3-dihydroxyacetone by tris(2,2'-bipyridine)ruthenium(II) electrochemiluminescence. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 9, pp. 2315-2320., Registrované v: WOS
- ADCA529 NAVRÁTIL, M. - GEMEINER, Peter - KLEIN, J. - ŠTURDÍK, E. - MALOVÍKOVÁ, Anna - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica, Welwardová - DOMÉNY, Z. - ŠMOGROVIČOVÁ, D. Properties of hydrogel materials used for entrapment of microbial cells in production of fermented beverages. In Artificial Cells, Bloods Substitutes and Biotechnology, 2002, vol. 30, p. 199-218. ISSN 1073-1199.  
 Citácie:  
 1. [1.1] GHANBARZADEH, Mehri - GOLMORADIZADEH, Asma - HOMAEI, Ahmad. Carrageenans and carrageenases: versatile polysaccharides and promising marine enzymes. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2018, vol. 17, no. 3, pp. 535-571., Registrované v: WOS
- ADCA530 NAVRÁTIL, M. - ŠTURDÍK, E. - GEMEINER, Peter. Batch and continuous mead production with pectate immobilized, ethanol-tolerant yeasts. In Biotechnology Letters, 2001, vol. 23, p. 978-982. (2001 - Current Contents). ISSN 0141-5492.  
 Citácie:



1. [1.1] AMORIM, Thaise Souza - LOPES, Solimar de Brito - CONCEICAO BISPO, Jose Ailton - SAMPAIO BONAFE, Carlos Francisco - MAFRA DE CARVALHO, Giovani Brandao - MARTINEZ, Ernesto Acosta. Influence of acerola pulp concentration on mead production by *Saccharomyces cerevisiae* AWRI 796. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 97, no., pp. 561-569., Registrované v: WOS
2. [1.1] PEIXOTO CAVALCANTE DA SILVA, Samira Maria - LOPES DE CARVALHO, Carlos Alfredo - SODRE, Geni da Silva - ESTEVINHO, Leticia M. Production and characterization of mead from the honey of *Melipona scutellaris* stingless bees. In JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2018, vol. 124, no. 2, pp. 194-200., Registrované v: WOS
- ADCA531 NEMCOVÁ, Kornélia - BREIEROVÁ, Emília - VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana. The diversity of yeasts associated with grapes and musts of the Strekov winegrowing region, Slovakia. In Folia Microbiologica, 2015, vol. 60, p. 103-109. (2014: 1.000 - IF, Q4 - JCR, 0.415 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0015-5632.
- Citácie:
1. [1.1] PADILLA, Beatriz - GIL, Jose V. - MANZANARES, Paloma. Challenges of the Non-Conventional Yeast *Wickerhamomyces anomalus* in Winemaking. In FERMENTATION-BASEL, 2018, vol. 4, no. 3, pp., Registrované v: WOS
- ADCA532 NEMČOVIČ, Marek - JAKUBÍKOVÁ, Lucia - VÍDEN, I. - FARKAŠ, Vladimír. Induction of conidiation by endogenous volatile compounds in *Trichoderma* spp. In FEMS Microbiology Letters, 2008, vol. 284, p. 231-236. (2007: 2.274 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0378-1097.
- Citácie:
1. [1.1] KHAN, Mujeebur R. - MOHIDDIN, Fayaz A. *Trichoderma*: Its Multifarious Utility in Crop Improvement. In NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: CROP IMPROVEMENT THROUGH MICROBIAL BIOTECHNOLOGY, 2018, vol., no., pp. 263-291., Registrované v: WOS
2. [1.1] KUNZLER, Markus. How fungi defend themselves against microbial competitors and animal predators. In PLOS PATHOGENS. ISSN 1553-7366, 2018, vol. 14, no. 9, pp., Registrované v: WOS
3. [1.1] LI, Ningxiao - ALFIKY, Alsayed - WANG, Wenzhao - ISLAM, Md - NOUROLLAHI, Khoshnood - LIU, Xingzhong - KANG, Seogchan. Volatile Compound-Mediated Recognition and Inhibition Between *Trichoderma* Biocontrol Agents and *Fusarium oxysporum*. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
4. [1.1] LI, Ningxiao - WANG, Wenzhao - BITAS, Vasileios - SUBBARAO, Krishna - LIU, Xingzhong - KANG, Seogchan. Volatile Compounds Emitted by Diverse *Verticillium* Species Enhance Plant Growth by Manipulating Auxin Signaling. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2018, vol. 31, no. 10, pp. 1021-1031., Registrované v: WOS
5. [1.1] MOYA, Paulina - GIROTTI, Juan Roberto - TOLEDO, Andrea Vanesa - SISTERNA, Marina Noemi. Antifungal activity of *Trichoderma* VOCs against *Pyrenophora teres*, the causal agent of barley net blotch. In Journal of Plant Protection Research. ISSN 14274345, 2018-01-01, 58, 1, pp. 45-53., Registrované v: WOS
6. [1.1] PADDER, Sajad Ahmad - PRASAD, Rajendra - SHAH, Abdul Haseeb. Quorum sensing: A less known mode of communication among fungi. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2018, vol. 210, no., pp. 51-58., Registrované v: WOS
7. [1.1] RIQUELME, Meritxell - AGUIRRE, Jesus - BARTNICKI-GARCIA, Salomon - BRAUS, Gerhard H. - FELDBRUEGGE, Michael - FLEIG, Ursula - HANSBERG, Wilhelm - HERRERA-ESTRELLA, Alfredo - KAEMPER, Joerg - KUECK, Ulrich - MOURINO-PEREZ, Rosa R. - TAKESHITA, Norio - FISCHER, Reinhard. Fungal Morphogenesis, from the Polarized Growth of Hyphae to Complex Reproduction and Infection Structures. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, 2018, vol. 82, no. 2, pp., Registrované v: WOS
8. [1.1] TORRES-CRUZ, Terry J. - HESSE, Cedar - KUSKE, Cheryl R. - PORRAS-ALFARO, Andrea. Presence and distribution of heavy metal tolerant fungi in surface soils of a temperate pine forest. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, 2018, vol. 131, no., pp. 66-74., Registrované v: WOS
- ADCA533 NEMČOVIČ, Marek - FARKAŠ, Vladimír. Cell-wall composition and polysaccharide synthase activity changes following photoinduction in *Trichoderma viride*. In Acta biologica Hungarica, 2001, vol. 52, p. 281-288. ISSN 0236-5383.
- Citácie:
1. [1.1] KONTAR, Szilvia - VARECKA, L'udovit - HIRES, Michal - KRYSTOFOVA, Svetlana - SIMKOVIC, Martin. Light-induced conidiation of *Trichoderma* spp. strains is accompanied by development-dependent changes in the Ca<sup>2+</sup> binding to cell walls. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, 2018, vol. 64, no. 11, pp. 856-864., Registrované v: WOS

- ADCA534 NOSÁLOVÁ, G. - PRISENŽŇÁKOVÁ, L. - PAULOVÍČOVÁ, Ema - CAPEK, Peter - MATULOVÁ, Mária. Antitussive and immunomodulating activities of instant coffee arabinogalactan-protein. In International Journal of Biological Macromolecules, 2011, vol. 49, p. 493-497. (2010: 2.502 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0141-8130.
- Citácie:
- [1.1] AL REEF, Tatiana - GHANEM, Esther. Caffeine: Well-known as psychotropic substance, but little as immunomodulator. In IMMUNOBIOLOGY. ISSN 0171-2985, 2018, vol. 223, no. 12, pp. 818-825., Registrované v: WOS
  - [1.1] FERREIRA, Sonia S. - PASSOS, Claudia P. - CEPEDA, Marcio R. - LOPES, Guido R. - TEIXEIRA-COELHO, Maria - MADUREIRA, Pedro - NUNES, Fernando M. - VILANOVA, Manuel - COIMBRA, Manuel A. Structural polymeric features that contribute to in vitro immunostimulatory activity of instant coffee. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 242, no., pp. 548-554., Registrované v: WOS
  - [1.1] KETHA, Kiranmayi - GUDIPATI, Muralikrishna. Immunomodulatory activity of non starch polysaccharides isolated from green gram (*Vigna radiata*). In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 113, no., pp. 269-276., Registrované v: WOS
  - [1.1] LI, Yujuan - XU, Fangxue - ZHENG, Mengmeng - XI, Xiaozhi - CUI, Xiaowei - HAN, Chunchao. Maca polysaccharides: A review of compositions, isolation, therapeutics and prospects. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 894-902., Registrované v: WOS
  - [1.1] QI, Jia - KIM, Sang Moo. Effects of the molecular weight and protein and sulfate content of *Chlorella ellipsoidea* polysaccharides on their immunomodulatory activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 70-77., Registrované v: WOS
  - [1.2] ANDERSON, George - MAES, Michael. A role for the regulation of the melatonergic pathways in Alzheimer's disease and other neurodegenerative and psychiatric conditions. In Serotonin and Melatonin: Their Functional Role in Plants, Food, Phytomedicine, and Human Health, 2017-01-01, pp. 421-444., Registrované v: SCOPUS
- ADCA535 NOSÁLOVÁ, G. - STRAPKOVÁ, A. - KARDOŠOVÁ, Alžbeta - CAPEK, Peter - ZÁTHURECKÝ, L. - BUKOVSKÁ, E. Antitussive efficacy of the vomplex extract and the polysaccharide of marsh mallow (*Althea officinalis* L., var. *robusta*). In Pharmazie, 1992, vol. 47, p. 224-226. ISSN 0031-7144.
- Citácie:
- [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS
  - [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In Zeitschrift für Phytotherapie. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209., Registrované v: SCOPUS
- ADCA536 NOSÁLOVÁ, Gabriela - CAPEK, Peter - MATÁKOVÁ, Tatiana - NOSÁL, Slavomír - FLEŠKOVÁ, Dana - JUREČEK, Ľudovít. Antitussive activity of an extracellular *Rhodella grisea* proteoglycan on the mechanically induced cough reflex. In Carbohydrate Polymers, 2012, vol. 87, p. 752-756. (2011: 3.628 - IF, 1.287 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS
- ADCA537 NOSÁLOVÁ, Gabriela - PRISENŽŇÁKOVÁ, Ľubica - KOŠTÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Suppressive effect of pectic polysaccharides from *Cucurbita pepo* L. var. *Styriaca* on citric acid-induced cough reflex in guinea pigs. In Fitoterapia, 2011, vol. 82, p. 357-364. (2010: 1.899 - IF). ISSN 0367-326X.
- Citácie:
- [1.1] BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (*Cucurbita maxima*) pulp and peel using hydrochloric acid solution. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658., Registrované v: WOS
  - [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of *Cucurbita maxima* pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS



3. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). *Alcayota Gum Films: Experimental Reviews*. In: *JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING*. ISSN 2327-6045, Vol. 6 (2018), p. 11-58
- ADCA538 NOUAÏLLE, R. - MATULOVÁ, Mária - PĚTOPRSTÝ, Vladimír - DELORT, A.-M. - FORANO, A. Production of oligosaccharides and cellobionic acid by *Fibrobacter succinogenes* S85 growing on sugars, cellulose and wheat straw. In *Applied Microbiology and Biotechnology*, 2009, vol. 83, p. 425-433. (2008: 2.569 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0175-7598.  
Citácie:  
1. [1.1] MAO, Shuhong - LIU, Yanna - HOU, Yali - MA, Xiaoyu - YANG, Juanjuan - HAN, Haichao - WU, Jianlin - JIA, Longgang - QIN, Huimin - LU, Fuping. Efficient production of sugar-derived aldonic acids by *Pseudomonas fragi* TCCC11892. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 70, pp. 39897-39901., Registrované v: WOS  
2. [1.1] NEUMANN, Anthony P. - WEIMER, Paul J. - SUEN, Garret. A global analysis of gene expression in *Fibrobacter succinogenes* S85 grown on cellulose and soluble sugars at different growth rates. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
- ADCA539 NURISSE, A. - KOZMON, Stanislav - IMBERTY, A. Comparison of docking methods for carbohydrate binding in calcium-depebndent lectins and prediction of the carbohydrate binding mode to sea cucumber lectin CEL-III. In *Molecular Simulation*, 2008, vol. 34, p. 469-479. ISSN 0892-7022.  
Citácie:  
1. [1.1] SOMMER, Roman - MAKSHAKOVA, Olga N. - WOHLSCHLAGER, Therese - HUTIN, Stephanie - MARSH, May - TITZ, Alexander - KUNZLER, Markus - VARROT, Annabelle. Crystal Structures of Fungal Tectonin in Complex with O-Methylated Glycans Suggest Key Role in Innate Immune Defense. In *STRUCTURE*. ISSN 0969-2126, 2018, vol. 26, no. 3, pp. 391-+, Registrované v: WOS  
2. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS
- ADCA540 OBORSKÝ, Pavel - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Toward an accurate conformational modeling of iduronic acid. In *Journal of Physical Chemistry B*, 2013, vol. 138, p. 220-226. (2012: 3.607 - IF, 1.920 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.  
Citácie:  
1. [1.1] ALMOND, Andrew. Multiscale modeling of glycosaminoglycan structure and dynamics: current methods and challenges. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2018, vol. 50, no., pp. 58-64., Registrované v: WOS
- ADCA541 ODOMAZING, R. - EBRINGEROVÁ, Anna - MACHOVÁ, Eva - ALFOLDI, Juraj. Structural and molecular properties of the arabinogalactan isolated from Mongolian larchwood (*Larix dahurica* L.). In *Carbohydrate Research*, 1994, vol. 252, p. 317. ISSN 0008-6215.  
Citácie:  
1. [1.1] HROMADKOVA, Zdenka - KOSTALOVA, Zuzana. ULTRASOUND EXTRACTION, PURIFICATION, AND PHYSICOCHEMICAL PROPERTIES OF ARABINOGALACTAN FROM LARIX DECIDUAS SAWDUST. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, vol., no., pp. 152-156., Registrované v: WOS  
2. [1.1] SASAKI, Yuki - TOGO, Nami - KITAHARA, Kanefumi - FUJITA, Kiyotaka. Characterization of a GH36 beta-L-Arabinopyranosidase in *Bifidobacterium adolescentis*. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2018, vol. 65, no. 2, pp. 23-30., Registrované v: WOS  
3. [1.1] SATO, Kazuki - HARA, Katsuya - YOSHIMI, Yoshihisa - KITAZAWA, Kiminari - ITO, Haruka - TSUMURAYA, Yoichi - KOTAKE, Toshihisa. Y-ariv reactivity of type II arabinogalactan from larch wood. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 467, no., pp. 8-13., Registrované v: WOS  
4. [1.1] TANG, Shuo - JIANG, Meiyun - HUANG, Caoxing - LAI, Chenhuan - FAN, Yimin - YONG, Qiang. Characterization of arabinogalactans from *Larix principis-rupprechtii* and their effects on NO production by macrophages. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 200, no., pp. 408-415., Registrované v: WOS  
5. [1.1] YOUNAS, Muhammad - HANO, Christophe - GIGLIOLI-GUIVARC';H, Nathalie - ABBASI, Bilal Haider. Mechanistic evaluation of phytochemicals in breast cancer remedy: current understanding and future perspectives. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 52, pp. 29714-29744., Registrované v: WOS
- ADCA542 ORAVEC, Michal\*\* - SASINKOVÁ, Vlasta - TOMANOVÁ, Katarína - GÁL, Lukáš - PARCIOVÁ, Silvia - HUCK, Christian W. In-situ surface-enhanced Raman scattering and FT-Raman spectroscopy

of black prints. In *Vibrational Spectroscopy*, 2018, vol. 94, p. 16-21. (2017: 1.363 - IF, Q4 - JCR, 0.453 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0924-2031.

Citácie:

1. [1.1] BUZZINI, Patrick - POLSTON, Carrie - SCHACKMUTH, Madison. On the criteria for the discrimination of inkjet printer inks using micro-Raman spectroscopy. In *JOURNAL OF RAMAN SPECTROSCOPY*. ISSN 0377-0486, 2018, vol. 49, no. 11, pp. 1791-1801., Registrované v: WOS
2. [1.1] WU, Zhengzong - HE, Deyun - CUI, Bo - JIN, Zhengyu. A bimodal (SERS and colorimetric) aptasensor for the detection of *Pseudomonas aeruginosa*. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2018, vol. 185, no. 11, pp., Registrované v: WOS
3. [1.2] SUZUKI, Edward M. - BUZZINI, Patrick. Applications of raman spectroscopy in forensic science. II: Analysis considerations, spectral interpretation, and examination of evidence. In *Forensic Science Review*. ISSN 10427201, 2018-07-01, 30, 2, pp. 137-169., Registrované v: SCOPUS

ADCA543

OSIČKA, Josef - ILČÍKOVÁ, Markéta - MRLÍK, Miroslav - AL.MAADEED, Miriam Ali S.A. - ŠLOUF, Miroslav - TKÁČ, Ján - KASÁK, Peter. Anisotropy in CNT composite fabricated by combining directional freezing and gamma irradiation of acrylic acid. In *Materials and Design*, 2016, vol. 97, p. 300-306. (2015: 3.997 - IF, Q1 - JCR, 1.885 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0261-3069.

Citácie:

1. [1.1] SCOTTI, K.L. - DUNAND, D.C. Freeze casting - A review of processing, microstructure and properties via the open data repository, FreezeCasting.net. In *PROGRESS IN MATERIALS SCIENCE*. ISSN 0079-6425, MAY 2018, vol. 94, p. 243-305., Registrované v: WOS

ADCA544

OSIČKA, Jozef - ILČÍKOVÁ, Markéta - POPELKA, Anton - FILIP, Jaroslav - BERTÓK, Tomáš - TKÁČ, Ján - KASÁK, Peter. Simple, reversible and fast modulation in superwettability, gradient and adsorption by counterion exchange on self-assembled monolayer. In *Langmuir*, 2016, vol. 32, p. 5491-5499. (2015: 3.993 - IF, Q1 - JCR, 1.686 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0743-7463.

Citácie:

1. [1.1] GAO, H.P. - LIU, Y. - LI, S.Y. - WANG, G.Y. - HAN, Z.W. - REN, L.Q. A biomimetic surface with switchable contact angle and adhesion for transfer and storage of microdroplets. In *NANOSCALE*. ISSN 2040-3364, AUG 28 2018, vol. 10, no. 32, p. 15393-15401., Registrované v: WOS
2. [1.1] HOANG, J. - PARK, C.S. - LEE, H.J. - MARQUEZ, M.D. - ZENASNI, O. - GUNARATNE, P.H. - LEE, T.R. Quaternary Ammonium-Terminated Films Formed from Mixed Bidentate Adsorbates Provide a High-Capacity Platform for Oligonucleotide Delivery. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, NOV 28 2018, vol. 10, no. 47, p. 40890-40900., Registrované v: WOS
3. [1.1] MAJI, K. - MANNA, U. Hierarchically featured and substrate independent bulk-deposition of 'reactive'; polymeric nanocomplexes for controlled and strategic manipulation of durable biomimicking wettability. In *JOURNAL OF MATERIALS CHEMISTRY A*. ISSN 2050-7488, APR 21 2018, vol. 6, no. 15, p. 6642-6653., Registrované v: WOS

ADCA545

PALEČEK, Emil - TKÁČ, Ján - BARTOŠÍK, Martin - BERTÓK, Tomáš - OSTATNÁ, Veronika - PALEČEK, Jan. Electrochemistry of non-conjugated proteins and glycoproteins. Towards sensors for biomedicine and glycomics. In *Chemical Reviews*, 2015, vol. 115, p. 2045-2108. (2014: 46.568 - IF, Q1 - JCR, 18.380 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0009-2665.

Citácie:

1. [1.1] ALIZADEH, Negar - SALIMI, Abdollah. Ultrasensitive Bioaffinity Electrochemical Sensors: Advances and New Perspectives. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 12, pp. 2803-2840., Registrované v: WOS
2. [1.1] BOTH, Peter - RIESE, Michel - GRAY, Christopher J. - HUANG, Kun - PALLISTER, Edward G. - KOSOV, Iaroslav - CONWAY, Louis P. - VOGLMEIR, Josef - FLITSCH, Sabine L. Applications of a highly alpha 2,6-selective pseudosialidase. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 5, pp. 261-268., Registrované v: WOS
3. [1.1] CHENG, Zhao Xuan - BONANNI, Alessandra. All-in-One: Electroactive Nanocarbon as Simultaneous Platform and Label for Single-Step Biosensing. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 24, pp. 6380-6385., Registrované v: WOS
4. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, Maria. Post-translational modifications in tumor biomarkers: the next challenge for aptamers? In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 8, pp. 2059-2065., Registrované v: WOS
5. [1.1] DORCAK, Vlastimil - NOVAK, David - KABELAC, Martin - KROUTIL, Ondrej - BEDNAROVA, Lucie - VEVERKA, Vaclav - VACEK, Jan. Structural Stability of Peptidic His-Containing Proton Wire in Solution and in the Adsorbed State. In *LANGMUIR*. ISSN 0743-7463,

- 2018, vol. 34, no. 24, pp. 6997-7005., Registrované v: WOS
6. [1.1] DOURADO, Andre H. B. - PASTRIAN, Fabian C. - CORDOBA DE TORRESI, Susana L. *The long and successful journey of electrochemically active amino adds. From fundamental adsorption studies to potential surface engineering tools.* In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS. ISSN 0001-3765, 2018, vol. 90, no. 1, pp. 607-630., Registrované v: WOS
7. [1.1] HASSANAIN, Waleed A. - SIVANESAN, Arumugam - IZAKE, Emad L. - AYOKO, Godwin A. *An electrochemical biosensor for the rapid detection of erythropoietin in blood.* In TALANTA. ISSN 0039-9140, 2018, vol. 189, no., pp. 636-640., Registrované v: WOS
8. [1.1] HE, Xiao-Peng - TIAN, He. *Lightening Up Membrane Receptors with Fluorescent Molecular Probes and Supramolecular Materials.* In CHEM. ISSN 2451-9294, 2018, vol. 4, no. 2, pp. 246-268., Registrované v: WOS
9. [1.1] IBANEZ, Jorge G. - RINCON, Marina. E. - GUTIERREZ-GRANADOS, Silvia - CHAHMA, M'hamed - JARAMILLO-QUINTERO, Oscar A. - FRONTANA-URIBE, Bernardo A. *Conducting Polymers in the Fields of Energy, Environmental Remediation, and Chemical-Chiral Sensors.* In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 9, pp. 4731-4816., Registrované v: WOS
10. [1.1] LUT, Helen - GALAGAN, Rostislav - PETROVA, Tatyana - KARAUSH, Nataliya - MINAEV, Boris. *Development of the Cyclic Reciprocal Derivative Chronopotentiometry with Alternating Current of Different Frequencies.* In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 11, pp. 2575-2579., Registrované v: WOS
11. [1.1] NOVAK, David - VISKUPICOVA, Jana - ZATLOUKALOVA, Martina - HEGER, Vladimir - MICHALIKOVA, Silvia - MAJEKOVA, Magdalena - VACEK, Jan. *Electrochemical behavior of sarco/endoplasmic reticulum Ca-ATPase in response to carbonylation processes.* In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 812, no., pp. 258-264., Registrované v: WOS
12. [1.1] PUIGGALI-JOU, Anna - PAWLOWSKI, Jan - DEL VALLE, Luis J. - MICHAUX, Catherine - PERPETE, Eric A. - SEK, Slawomir - ALEMAN, Carlos. *Properties of Omp2a-Based Supported Lipid Bilayers: Comparison with Polymeric Bioinspired Membranes.* In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 8, pp. 9003-9019., Registrované v: WOS
13. [1.1] SIERRA, Tania - CRISTINA GONZALEZ, Maria - MORENO, Begona - CREVILLEN, Agustin G. - ESCARPA, Alberto. *Total alpha(1)-acid glycoprotein determination in serum samples using disposable screen-printed electrodes and osmium (VI) as electrochemical tag.* In TALANTA. ISSN 0039-9140, 2018, vol. 180, no., pp. 206-210., Registrované v: WOS
14. [1.1] TREFULKA, Mojmir. *Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products.* In CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS
15. [1.1] VACEK, Jan - SVRCKOVA, Marika - ZATLOUKALOVA, Martina - NOVAK, David - PROSKOVA, Jitka - LANGOVA, Katerina - GALUSZKOVA, Dana - ULRICHOVA, Jitka. *Electrocatalytic artificial carbonylation assay for observation of human serum albumin inter-individual properties.* In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2018, vol. 550, no., pp. 137-143., Registrované v: WOS
16. [1.1] VACEK, Jan - ZATLOUKALOVA, Martina - NOVAK, David. *Electrochemistry of membrane proteins and protein-lipid assemblies.* In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 73-80., Registrované v: WOS
17. [1.1] VASILESCU, Alina - YE, Ran - BOULAHNECHE, Samia - LAMRAOUI, Sabrina - JIJIE, Roxana - MEDJRAM, Mohamed Salah - GASPARD, Szilveszter - SINGH, Santosh K. - KURUNGOT, Sreekumar - MELINTE, Sorin - BOUKHERROUB, Rabah - SZUNERITS, Sabine. *Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation.* In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2018, vol. 266, no., pp. 364-372., Registrované v: WOS
18. [1.1] WANG, Chang-Zheng - HE, Xiao-Peng. *Supramolecular glycorhodamine-polymer dot ensembles for the homogeneous, fluorogenic analysis of lectins.* In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 455, no., pp. 1-4., Registrované v: WOS
19. [1.1] YANG, Yanbing - YANG, Xiangdong - YANG, Yujie - YUAN, Quan. *Aptamer-functionalized carbon nanomaterials electrochemical sensors for detecting cancer relevant biomolecules.* In CARBON. ISSN 0008-6223, 2018, vol. 129, no., pp. 380-395., Registrované v: WOS
20. [1.1] YATES, Nicholas D. J. - FASCIONE, Martin A. - PARKIN, Alison. *Methodologies for "Wiring" Redox Proteins/Enzymes to Electrode Surfaces.* In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 47, pp. 12164-12182., Registrované v: WOS
21. [1.1] ZHANG, Bintian - SONG, Weisi - PANG, Pei - ZHAO, Yanan - ZHANG, Peiming - CSABAI, Istvan - VATTAY, Gabor - LINDSAY, Stuart. *Observation of giant conductance*



- fluctuations in a protein. In NANO FUTURES, 2017, vol. 1, no. 3, pp., Registrované v: WOS*  
 22. [1.2] HASON, Stanislav - DAÑHEL, Aleš - SCHWARZOVÁ-PECKOVÁ, Karolina - FOJTA, Miroslav. Carbon electrodes in electrochemical analysis of biomolecules and bioactive substances: Roles of surface structures and chemical groups. In Nanotechnology and Biosensors, 2018-01-01, pp. 51-111., Registrované v: SCOPUS
23. [1.2] KARAUSH-KARMAZIN, Nataliya - LUT, Helen - GALAGAN, Rostislav - MINAEV, Boris. Cyclic reciprocal derivative chronopotentiometry in the study of electrochemical mechanisms. In Current Topics in Electrochemistry. ISSN 09724443, 2018-01-01, 20, pp. 75-84., Registrované v: SCOPUS
24. [1.2] KARLAPUDI, Abraham Peele - VENKATESWARULU, T. C. - TAMMINEEDI, Jahnvi - KANUMURI, Lohit - RAVURU, Bharath Kumar - DIRISALA, Vijaya ramu - KODALI, Vidya Prabhakar. Role of biosurfactants in bioremediation of oil pollution-a review. In Petroleum. ISSN 24056561, 2018-09-01, 4, 3, pp. 241-249., Registrované v: SCOPUS
- ADCA546 PAPPAS, C.S. - MALOVIKOVÁ, Anna - HROMÁDKOVÁ, Zdenka - TARANTILIS, P.A. - EBRINGEROVÁ, Anna - POLISSIOU, M.G. Determination of the degree of esterification of pectinates with decyl and benzyl ester groups by diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) and curve-fitting deconvolution method. In Carbohydrate Polymers, 2004, vol. 56, s. 465-469. (2003: 1.597 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] CHEN, Jinfeng - YE, Fayin - ZHOU, Yun - ZHAO, Guohua. Thiolated citrus low-methoxyl pectin: Synthesis, characterization and rheological and oxidation-responsive gelling properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 964-973., Registrované v: WOS
  - [1.1] GOVINDARAJ, Dharman - RAJAN, Mariappan - HATAMLEH, Ashraf A. - MUNUSAMY, Murugan A. From waste to high-value product: Jackfruit peel derived pectin/apatite bionanocomposites for bone healing applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 106, no., pp. 293-301., Registrované v: WOS
  - [1.1] GOVINDARAJ, Dharman - RAJAN, Mariappan - MUNUSAMY, Murugan A. - ALARFAJ, Abdullah A. - HIGUCHI, Akon - KUMAR, S. Suresh. Carbon nanotubes/pectin/minerals substituted apatite nanocomposite depositions on anodized titanium for hard tissue implant: In vivo biological performance (Retraction of Vol 194, Pg 77, 2017). In MATERIALS CHEMISTRY AND PHYSICS. ISSN 0254-0584, 2018, vol. 220, no., pp. 470-470., Registrované v: WOS
  - [1.1] SABERI, Dariush - HASHEMI, Hajar. TBAI-catalyzed oxidative self-coupling of benzyl bromides under solvent-free conditions: A new pathway toward synthesis of benzyl benzoates. In CATALYSIS COMMUNICATIONS. ISSN 1566-7367, 2018, vol. 106, no., pp. 50-54., Registrované v: WOS
  - [1.1] YANG, Jin-Shu - MU, Tai-Hua - MA, Meng-Mei. Extraction, structure, and emulsifying properties of pectin from potato pulp. In FOOD CHEMISTRY. ISSN 0308-8146, 2018, vol. 244, no., pp. 197-205., Registrované v: WOS
  - [1.1] YANG, Yishuo - WANG, Zhaomei - HU, Die - XIAO, Kaijun - WU, Jian-Yong. Efficient extraction of pectin from sisal waste by combined enzymatic and ultrasonic process. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2018, vol. 79, no., pp. 189-196., Registrované v: WOS
  - [1.1] ZAINUDIN, Badrul Hisyam - TIN WUI WONG - HAMDAN, Halimatun. Design of low molecular weight pectin and its nanoparticles through combination treatment of pectin by microwave and inorganic salts. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2018, vol. 147, no., pp. 35-40., Registrované v: WOS
- ADCA547 PAPP, G. - PREKLET, E. - KOŠÍKOVÁ, Božena - BÁRTA, E. - TOLVAJ, J. - BOHUŠ, J. - SZÁTMÁRI, S. - BERKESI, O. Effect of UV laser radiation with different wavelengths on the spectrum of lignin extracted from hard wood materials. In Journal of Photochemistry and Photobiology A : polymer chemistry, 2004, vol. 163, p. 187-192. (2004 - Current Contents). ISSN 1010-6030.
- Citácie:
- [1.1] WYPYCH, George. WEATHERING OF COMPOUNDED PRODUCTS. In HANDBOOK OF MATERIAL WEATHERING, 6TH EDITION, 2018, vol., no., pp. 625-784., Registrované v: WOS
- ADCA548 PAŠTEKA, Mikuláš. Quarternization of regenerated cellulose under homogeneous reaction conditions. In Acta Polymerica, 1988, vol. 39, p. 130-132. ISSN 0323-7648.
- Citácie:
- [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Etherification of Cellulose. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, vol., no., pp. 429-477., Registrované v: WOS

- ADCA549 PAŠTEKA, Mikuláš. Dissolution of cellulose in the solutions of benzyltriethylammonium hydroxide. In *Cellulose Chemistry and Technology*, 1984, vol. 18, p. 379-387. ISSN 0576-9787.  
Citácie:  
1. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. *Cellulose Activation and Dissolution*. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 173-257., Registrované v: WOS
- ADCA550 PATEL, T.R. - HARDING, S.E. - EBRINGEROVÁ, Anna - DESZCZYNSKI, M. - HROMÁDKOVÁ, Zdenka - TOGOLA, A. - PAULSEN, B.S. - MORRIS, G.A. - ROWE, A.J. Weak self-association in carbohydrate system. In *Biophysical Journal*, 2007, vol. 93, p. 741-749. (2007 - Current Contents). ISSN 0006-3495.  
Citácie:  
1. [1.1] KUMAR, Dinesh - SHARMA, Shashi Kant. *Molecular Interactions Investigation of L-Histidine in Water and in Aqueous Citric Acid at Different Temperatures Using Volumetric and Acoustic Methods*. In *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS*. ISSN 0942-9352, 2018, vol. 232, no. 3, pp. 393-408., Registrované v: WOS  
2. [1.1] WAGNER, Angela M. - GRAN, Margaret P. - PEPPAS, Nicholas A. *Designing the new generation of intelligent biocompatible carriers for protein and peptide delivery*. In *ACTA PHARMACEUTICA SINICA B*. ISSN 2211-3835, 2018, vol. 8, no. 2, pp. 147-164., Registrované v: WOS  
3. [1.1] WIEBENGA-SANFORD, Benjamin P. - WASHINGTON, Jack B. - COSGROVE, Brett - PALOMARES, Eduardo F. - VASQUEZ, Derrick A. - RITHNER, Christopher D. - LEVINGER, Nancy E. *Sweet Confinement: Glucose and Carbohydrate Osmolytes in Reverse Micelles*. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 41, pp. 9555-9566., Registrované v: WOS  
4. [1.1] WRIGHT, Robert T. - HAYES, David B. - STAFFORD, Walter F. - SHERWOOD, Peter J. - CORREIA, John J. *Characterization of therapeutic antibodies in the presence of human serum proteins by AU-FDS analytical ultracentrifugation*. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2018, vol. 550, no., pp. 72-83., Registrované v: WOS
- ADCA551 PATEL, Trushar R. - MORRIS, Gordon A. - EBRINGEROVÁ, Anna - VODENIČAROVÁ, Melita - VELEBNÝ, Vladimír - ORTEGA, Alvaro - DE LA TORRE, Jose Garsia - HARDING, Stephen E. Global conformation analysis of irradiated xyloglucans. In *Carbohydrate Polymers*, 2008, vol. 74, s. 845-851. ISSN 0144-8617.  
Citácie:  
1. [1.1] HUANBUTTA, Kampanart - SITTIKIJYOTHIN, Wancheng. *Use of seed gums from Tamarindus indica and Cassia fistula as controlled-release agents*. In *ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1818-0876, 2018, vol. 13, no. 5, pp. 398-408., Registrované v: WOS
- ADCA552 PAULOVÍČOVÁ, Ema - MACHOVÁ, Eva - TULINSKÁ, J. - BYSTRICKÝ, Slavomír. Cell and antibody mediated immunity induced by vaccination with novel Candida dubliniensis mannan immunogenic conjugate. In *International Immunopharmacology*, 2007, vol. 7, p. 1325-1333. ISSN 1567-5769.  
Citácie:  
1. [1.1] KUMARESAN, Pappanaicken R. - DA SILVA, Thiago Aparecido - KONTOYIANNIS, Dimitrios P. *Methods of Controlling Invasive Fungal Infections Using CD8(+) T Cells*. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 8, no., pp., Registrované v: WOS
- ADCA553 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - PILIŠIOVÁ, Ružena - BYSTRICKÝ, Slavomír - YASHUNSKY, Dmitri V. - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Synthetically prepared glycooligosaccharides mimicking Candida albicans cell wall glycan antigens - novel tools to study host-pathogen interactions. In *FEMS Yeast Research*, 2013, vol. 13, p. 659-673. (2012: 2.462 - IF, 1.187 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1567-1356.  
Citácie:  
1. [1.1] MICOLI, Francesca - COSTANTINO, Paolo - ADAMO, Roberto. *Potential targets for next generation antimicrobial glycoconjugate vaccines*. In *FEMS MICROBIOLOGY REVIEWS*. ISSN 0168-6445, 2018, vol. 42, no. 3, pp. 388-423., Registrované v: WOS
- ADCA554 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - PILIŠIOVÁ, Ružena - JANČINOVÁ, Viera - YASHUNSKY, Dmitri V. - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. The evaluation of beta-(1-3)-nonaglycoside as an anti-Candida albicans immune response inducer. In *Cellular Microbiology*, 2016, vol. 18, no. 9, p. 1294-1307. (2015: 4.460 - IF, Q1 - JCR, 2.932 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1462-5814.  
Citácie:  
1. [1.1] BORCEA, Anca-Maria - MARC, Gabriel - VODNAR, Dan C. - VLASE, Laurian - ONIGA,



- Ovidiu. Synthesis of novel thiazolyl-phenyl-thiazole derivatives as promising anti-Candida agents. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, 2018, vol. 31, no. 5, pp. 2085-2090., Registrované v: WOS*
- ADCA555 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír. Immunological basis of anti-Candida vaccines focused on synthetically prepared cell wall mannan-derived manno-oligomers. In Microbiology and immunology, 2014, vol. 58, p. 545-551 (1.306-IF2013. (2013: 1.306 - IF, 0.702 - SJR). ISSN 1348-0421.  
Citácie:  
1. [1.1] GUO, Can-Jie - LEUNG, Patrick S. C. - ZHANG, Weici - MA, Xiong - GERSHWIN, M. Eric. The immunobiology and clinical features of type 1 autoimmune polyglandular syndrome (APS-1). In AUTOIMMUNITY REVIEWS. ISSN 1568-9972, 2018, vol. 17, no. 1, pp. 78-85., Registrované v: WOS
- ADCA556 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. - BYSTRICKÝ, Slavomír. Humoral and cell-mediated immunity following vaccination with synthetic Candida cell wall mannan derived heptamannoside-protein conjugate immunomodulatory properties of heptamannoside-BSA conjugate. In International Immunopharmacology, 2012, vol. 14, p. 179-187. (2011: 2.376 - IF, 0.823 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1567-5769.  
Citácie:  
1. [1.1] SCULLY, Ingrid L. - SWANSON, Kena A. - KANEVSKY, Isis - PRASAD, A. Krishna - ANDERSON, Annaliesa S. Preclinical Assessment of Glycoconjugate Vaccines. In CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC. ISSN 0097-6156, 2018, vol. 1290, no., pp. 229-247., Registrované v: WOS
- ADCA557 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, A.A. - TSVETKOV, Y.E - NIFANTIEV, N. E. - BYSTRICKÝ, Slavomír. Effect of Branched  $\alpha$ -Oligomannoside Structures on Induction of Anti-Candida Humoral Immune Response. In Scandinavian Journal of Immunology, 2013, vol. 77, p. 431-441. (2012: 2.199 - IF, 0.880 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0300-9475.  
Citácie:  
1. [1.1] LIU, Yang - HUANG, Gangliang. The derivatization and antioxidant activities of yeast mannan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 755-761., Registrované v: WOS  
2. [1.1] TSO, Gloria Hoi Wan - REALES-CALDERON, Jose Antonio - PAVELKA, Norman. The Elusive Anti-Candida Vaccine: Lessons From the Past and Opportunities for the Future. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS
- ADCA558 PAWLACZYK-GRAJA, Izabela - BALICKI, Sebastian - ZIEWIECKI, Rafal - MATULOVA, Mária - CAPEK, Peter - GANCZARZ, Roman. Polyphenolic-polysaccharide conjugates of Sanguisorba officinalis L. with anticoagulant activity mediated by a heparin cofactor II. In International Journal of Biological Macromolecules, 2016, vol. 93, p. 1019-1029. (2015: 3.138 - IF, Q1 - JCR, 0.815 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.  
Citácie:  
1. [1.1] LIGOR, Magdalena - RATIU, Ileana-Andreea - KIELBASA, Anna - AL-SUOD, Hossam - BUSZEWSKI, Boguslaw. Extraction approaches used for the determination of biologically active compounds (cyclitols, polyphenols and saponins) isolated from plant material. In ELECTROPHORESIS. ISSN 0173-0835, 2018, vol. 39, no. 15, pp. 1860-1874., Registrované v: WOS  
2. [1.1] LIU, Jun - BAI, Ruyi - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS  
3. [1.1] PEREZ-ESCALANTE, Emmanuel - GUILLERMO GONZALEZ-OLIVARES, Luis - ELIZABETH CRUZ-GUERRERO, Alma - ANDRES GALAN-VIDAL, Carlos - ELENA PAEZ-HERNANDEZ, Ma - ARTURO ALVAREZ-ROMERO, Giaan. Size exclusion chromatography (SEC-HPLC) as an alternative to study thrombin inhibition. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2018, vol. 1074, no., pp. 34-38., Registrované v: WOS  
4. [1.1] SU, Xiang Dong - ALI, Irshad - AROOJ, Madeeha - KOH, Young Sang - YANG, Seo Young - KIM, Young Ho. Chemical constituents from Sanguisorba officinalis L. and their inhibitory effects on LPS-stimulated pro-inflammatory cytokine production in bone marrow-derived dendritic cells. In ARCHIVES OF PHARMACAL RESEARCH. ISSN 0253-6269, 2018, vol. 41, no. 5, pp. 497-505., Registrované v: WOS
- ADCA559 PAWLACZYK, Izabela - CAPEK, Peter - CZERCHAWSKI, Leszek - BIJAK, Joanna - LEWIK-

TSIRIGOTIS, Marta - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An anticoagulant effect and chemical characterization of *Lythrum salicaria* L. glycoconjugates. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 86, p. 277-284. (2010: 3.463 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS

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PAWLACZYK, Izabela - CZERCHAWSKI, Leszek - KAŃSKA, Justyna - BIJAK, Joanna - CAPEK, Peter - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An acidic glycoconjugate from *Lythrum salicaria* L. with controversial effects on haemostasis. In *Journal of Ethnopharmacology*, 2010, vol. 131, p. 63-69. (2009: 2.322 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0378-8741.

Citácie:

1. [1.1] KOOK, Yeon Ji - TIAN, Jingwen - JEON, Yoo Shin - CHOI, Min Jung - SONG, Jeong Eun - PARK, Chan Hum - REIS, Rui L. - KHANG, Gilson. Nature-derived epigallocatechin gallate/duck's feet collagen/hydroxyapatite composite sponges for enhanced bone tissue regeneration. In *JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION*. ISSN 0920-5063, 2018, vol. 29, no. 7-9, pp. 984-996., Registrované v: WOS
2. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS

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PAWLACZYK, Izabela - LEWIK-TSIRIGOTIS, Marta - CAPEK, Peter - MATULOVÁ, Mária - SASINKOVÁ, Vlasta - DABROWSKI, Pawel - WITKIEWICZ, Wojciech - GANCARZ, Roman. Effects of extraction condition on structural features and anticoagulant activity of *F. vesca* L. conjugates. In *Carbohydrate Polymers*, 2013, vol. 92, p. 741-750. (2012: 3.479 - IF, 1.409 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] ABD EL-HAMEIDR, Asmaa R. - HASABALLAH, A. A. - HELMY, Wafaa A. Antioxidant activity of moringa oleifera aqueous extract from leaves and seeds. In *BIOSCIENCE RESEARCH*. ISSN 1811-9506, 2018, vol. 15, no. 4, pp. 3373-3379., Registrované v: WOS
2. [1.1] DE MORAIS OLIVEIRA-TINTINO, Cicera Datiane - PESSOA, Renata Torres - MARTINS FERNANDES, Maria Neyze - ALCANTARA, Isabel Sousa - FERNANDES DA SILVA, Bruno Anderson - CORREIA DE OLIVEIRA, Maria Rayane - PEREIRA BEZERRA MARTINS, Anita Oliveira Brito - DA SILVA, Maria do Socorro - TINTINO, Saulo Relison - GALVAO RODRIGUES, Fabio Fernandes - MARTINS DA COSTA, Jose Galberto - DE LIMA, Sidney Goncalo - KERNTOPF, Marta Regina - DA SILVA, Teresinha Goncalves - ALENCAR DE MENEZES, Irwin Rose. Anti-inflammatory and anti-edematogenic action of the *Croton campestris* A.St.-Hil (Euphorbiaceae) essential oil and the compound beta-caryophyllene in in vivo models. In *PHYTOMEDICINE*. ISSN 0944-7113, 2018, vol. 41, no., pp. 82-95., Registrované v: WOS
3. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
4. [1.1] MADEIRA, Juliana C. - DA SILVA, Gabriel V. L. - BATISTA, Jose Josenildo - SARAIVA, Gilberto Dantas - SANTOS, Gustavo R. C. - ASSREUY, Ana Maria S. - MOURAO, Paulo A. S. - PEREIRA, Maria G. An arabinogalactan-glycoconjugate from *Genipa americana* leaves present anticoagulant, antiplatelet and antithrombotic effects. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 202, no., pp. 554-562., Registrované v: WOS
5. [1.1] TSIRIGOTIS-MANIECKA, Marta - SZYK-WARSZYNSKA, Lilianna - MICHNA, Aneta - WARSZYNSKI, Piotr - WILK, Kazimiera A. Colloidal characteristics and functionality of rationally designed esculin-loaded hydrogel microcapsules. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 530, no., pp. 444-458., Registrované v: WOS

ADCA562

PEDERSEN, H.L. - FANGEL, J.U. - MCCLEARY, B. - RUZANSKI, C. - GRO RYDAHI, M. - RALET, M.C. - FARKAŠ, Vladimír - VON SCHANTZ, L. - MARCOS, S.E. - ANDERSEN, M.C.F. - FIELD, R. - OHLIN, M. - KNOX, J.P. - CLAUSEN, M.H. - WILLATS, W.G.T. Versatile high-resolution oligosaccharide microarrays for plant glycobiology and cell wall research. In *The Journal of Biological Chemistry*, 2012, vol.287, p.39429-39438. (2011: 4.773 - IF, 3.495 - SJR, karentované -

CCC). (2012 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] BETEKHTIN, Alexander - MILEWSKA-HENDEL, Anna - LUSINSKA, Joanna - CHAJEC, Lukasz - KURCZYNSKA, Ewa - HASTEROK, Robert. *Organ and Tissue-Specific Localisation of Selected Cell Wall Epitopes in the Zygotic Embryo of Brachypodium distachyon*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
2. [1.1] BETEKHTIN, Alexander - ROJEK, Magdalena - NOWAK, Katarzyna - PINSKI, Artur - MILEWSKA-HENDEL, Anna - KURCZYNSKA, Ewa - DOONAN, John H. - HASTEROK, Robert. *Cell Wall Epitopes and Endoploidy as Reporters of Embryogenic Potential in Brachypodium Distachyon Callus Culture*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 12, pp., Registrované v: WOS
3. [1.1] LIU, Yan - PALMA, Angelina S. - TEN FEIZI - CHAI, Wengang. *Insights Into Glucan Polysaccharide Recognition Using Glucooligosaccharide Microarrays With Oxime-Linked Neoglycolipid Probes*. In *CHEMICAL GLYCOBIOLOGY, PT B: MONITORING GLYCANS AND THEIR INTERACTIONS*. ISSN 0076-6879, 2018, vol. 598, no., pp. 139-167., Registrované v: WOS
4. [1.1] LOPEZ, Renee A. - MANSOURI, Katayoun - HENRY, Jason S. - FLOWERS, Nicholas D. - VAUGHN, Kevin C. - RENZAGLIA, Karen Sue. *Immunogold Localization of Molecular Constituents Associated with Basal Bodies, Flagella, and Extracellular Matrices in Male Gametes of Land Plants*. In *BIO-PROTOCOL*, 2017, vol. 7, no. 21, pp., Registrované v: WOS
5. [1.1] LOPEZ, Renee A. - RENZAGLIA, Karen S. *The Ceratopteris (fern) developing motile gamete walls contain diverse polysaccharides, but not pectin*. In *PLANTA*. ISSN 0032-0935, 2018, vol. 247, no. 2, pp. 393-404., Registrované v: WOS
6. [1.1] MAROLI, Amith S. - GAINES, Todd A. - FOLEY, Michael E. - DUKE, Stephen O. - DOGRAMACI, Munevver - ANDERSON, James V. - HORVATH, David P. - CHAO, Wun S. - THARAYIL, Nishanth. *Omics in Weed Science: A Perspective from Genomics, Transcriptomics, and Metabolomics Approaches*. In *WEED SCIENCE*. ISSN 0043-1745, 2018, vol. 66, no. 6, pp. 681-695., Registrované v: WOS
7. [1.1] MOUSSU, Steven - AUGUSTIN, Sebastian - ROMAN, Andra-Octavia - BROYART, Caroline - SANTIAGO, Julia. *Crystal structures of two tandem malectin-like receptor kinases involved in plant reproduction*. In *ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY*. ISSN 2059-7983, 2018, vol. 74, no., pp. 671-680., Registrované v: WOS
8. [1.1] MYSTKOWSKA, Agata Anna - ROBB, Craig - VIDAL-MELGOSA, Silvia - VANNI, Chiara - FERNANDEZ-GUERRA, Antonio - HOEHNE, Matthias - HEHEMANN, Jan-Hendrik. *Molecular recognition of the beta-glucans laminarin and pustulan by a SusD-like glycan-binding protein of a marine Bacteroidetes*. In *FEBS JOURNAL*. ISSN 1742-464X, 2018, vol. 285, no. 23, pp. 4465-4481., Registrované v: WOS
9. [1.1] TUCKER, Matthew R. - LOU, Haoyu - AUBERT, Matthew K. - WILKINSON, Laura G. - LITTLE, Alan - HOUSTON, Kelly - PINTO, Sara C. - SHIRLEY, Neil J. *Exploring the Role of Cell Wall-Related Genes and Polysaccharides during Plant Development*. In *PLANTS-BASEL*. ISSN 2223-7747, 2018, vol. 7, no. 2, pp., Registrované v: WOS
10. [1.1] VOINICIUC, Catalin - PAULY, Markus - USADEL, Bjoern. *Monitoring Polysaccharide Dynamics in the Plant Cell Wall*. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2018, vol. 176, no. 4, pp. 2590-2600., Registrované v: WOS
11. [1.1] ZAKHAROVA, Alexandra N. - AWAN, Shahid I. - NAMI, Faranak - GOTFREDSEN, Charlotte H. - MADSEN, Robert - CLAUSEN, Mads H. *Synthesis of Two Tetrasaccharide Pentenyl Glycosides Related to the Pectic Rhamnogalacturonan I Polysaccharide*. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 2, pp., Registrované v: WOS
12. [1.1] ZHANG, Heng - LOPEZ, Pau Cabaneros - HOLLAND, Claire - LUNDE, Alan - AMBYE-JENSEN, Morten - FELBY, Claus - THOMSEN, Sune Tjalfe. *The multi-feedstock biorefinery Assessing the compatibility of alternative feedstocks in a 2G wheat straw biorefinery process*. In *GLOBAL CHANGE BIOLOGY BIOENERGY*. ISSN 1757-1693, 2018, vol. 10, no. 12, pp. 946-959., Registrované v: WOS
13. [1.2] RIBEIRO, Diana O. - PINHEIRO, Benedita A. - CARVALHO, Ana Luísa - PALMA, Angelina S. *Targeting protein-carbohydrate interactions in plant cell-wall biodegradation: The power of carbohydrate microarrays*. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 159-176., Registrované v: SCOPUS

ADCA563

PERIASAMY, Agalya - SHADIAC, Nadim - AMALRAJ, Amritha - GARAJOVÁ, Soňa - NAGARAJAN, Yagnesh - WATERS, Shane - MERTENS, Haydyn D.T. - HRMOVÁ, Mária. *Cell-free protein synthesis of membrane (1,3)-beta-D-glucan (curdlan) synthase: Co-translational insertion in liposomes and reconstitution in nanodiscs*. In *Biochimica et Biophysica Acta : Biomembranes*, 2013, vol. 1828, p. 743-757. (2012: 3.389 - IF, 1.833 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0005-2736.



## Citácie:

1. [1.1] JIN, Xing - HONG, Seok Hoon. Cell-free protein synthesis for producing 'difficult-to-express' proteins. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2018, vol. 138, no., pp. 156-164., Registrované v: WOS
  2. [1.1] LU, Mei - ZHAO, Xiaoyun - XING, Haonan - XUN, Zhe - YANG, Tianzhi - CAI, Cuifang - WANG, Dongkai - DING, Pingtian. Liposome-chaperoned cell-free synthesis for the design of proteoliposomes: Implications for therapeutic delivery. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2018, vol. 76, no., pp. 1-20., Registrované v: WOS
  3. [1.1] POPOT, Jean-Luc. Alternatives to Detergents for Handling Membrane Proteins in Aqueous Solutions. In *MEMBRANE PROTEINS IN AQUEOUS SOLUTIONS: FROM DETERGENTS TO AMPHIPOLS*. ISSN 1618-7210, 2018, vol., no., pp. 97-149., Registrované v: WOS
  4. [1.1] POPOT, Jean-Luc. Amphipol-Assisted Folding of Membrane Proteins. In *MEMBRANE PROTEINS IN AQUEOUS SOLUTIONS: FROM DETERGENTS TO AMPHIPOLS*. ISSN 1618-7210, 2018, vol., no., pp. 333-379., Registrované v: WOS
  5. [1.1] POPOT, Jean-Luc. Formation and Properties of Membrane Protein/Amphipol Complexes. In *MEMBRANE PROTEINS IN AQUEOUS SOLUTIONS: FROM DETERGENTS TO AMPHIPOLS*. ISSN 1618-7210, 2018, vol., no., pp. 237-332., Registrované v: WOS
  6. [1.1] SCHOBORG, Jennifer A. - HERSHEWE, Jasmine M. - STARK, Jessica C. - KIGHTLINGER, Weston - KATH, James E. - JAROENTOMECHAI, Thapakorn - NATARAJAN, Aravind - DELISA, Matthew P. - JEWETT, Michael C. A cell-free platform for rapid synthesis and testing of active oligosaccharyltransferases. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592, 2018, vol. 115, no. 3, pp. 739-750., Registrované v: WOS
- ADCA564 PERI, F. - JIMÉNEZ-BARBERO, J. - GARCIA-APARICIO, V. - TVAROŠKA, Igor - NICOTRA, F. Synthesis and conformational analysis of novel N(OCH<sub>3</sub>)-linked disaccharide analogues. In *Chemistry - A European Journal*, 2004, vol. 10, p. 1433-1444.
- Citácie:
1. [1.1] BADDELEY, Kate L. - COOK, Matthew J. A highly selective Bi(OTf)<sub>3</sub> mediated fragmentation-contraction of delta-ortholactones. A facile route to functionalized gamma-lactones. In *TETRAHEDRON*. ISSN 0040-4020, 2018, vol. 74, no. 38, pp. 5172-5182., Registrované v: WOS
  2. [1.1] HACKBUSCH, Sven - WATSON, Amelia - FRANZ, Andreas H. Synthesis and conformational analysis of D-glucopyranosyl-(6,6'-)-D-glucopyranuronate, a model compound for the inter-glycan 6,6'-ester linkage. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 458, no., pp. 1-12., Registrované v: WOS
- ADCA565 PETRUŠ, Ladislav - GRAY, D.G. - BEMILLER, J.N. Homogeneous alkylation of cellulose in lithium chloride-dimethyl sulfoxide solvent with dimsyl sodium activation - a proposal for the mechanism of cellulose dissolution in LiCl/Me<sub>2</sub>SO. In *Carbohydrate Research*, 1995, vol. 268, p. 319-323. (1995 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] BROXTERMAN, Suzanne E. - VAN ERVEN, Gijs - SCHOLS, Henk A. The solubility of primary plant cell wall polysaccharides in LiCl-DMSO. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 200, no., pp. 332-340., Registrované v: WOS
  2. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Cellulose Activation and Dissolution. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 173-257., Registrované v: WOS
  3. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Etherification of Cellulose. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 429-477., Registrované v: WOS
  4. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Principles of Cellulose Derivatization. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 259-292., Registrované v: WOS
  5. [1.1] SIMS, Ian M. - CARNACHAN, Susan M. - BELL, Tracey J. - HINKLEY, Simon F. R. Methylation analysis of polysaccharides: Technical advice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 188, no., pp. 1-7., Registrované v: WOS
  6. [1.2] YANG, Yan - REN, Hao - ZHAI, Huamin. Evaluation Method of Solubility of Wheat Straw in LiCl/DMSO Solvent. In *Chemistry and Industry of Forest Products*. ISSN 02532417, 2018-08-28, 38, 4, pp. 9-12., Registrované v: SCOPUS
- ADCA566 PETRUŠOVÁ, Mária - SMRTIČOVÁ, Hana - PRIBULOVÁ, Božena - VLČKOVÁ, Silvia - UHLIARIKOVÁ, Iveta - DOSCA, Tibor - SOMSAK, László - PETRUŠ, Ladislav. One pot InCl<sub>3</sub>-catalyzed synthesis of 1-glycosylmethyl-1H-imidazoles. In *Tetrahedron*, 2016, vol. 72, p. 2116-2121. (2015: 2.645 - IF, Q2 - JCR, 0.954 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0040-4020.

## Citácie:

1. [1.1] MARZOUK, Adel A. - ABU-DIEF, Ahmed M. - ABDELHAMID, Antar A. Hydrothermal preparation and characterization of ZnFe<sub>2</sub>O<sub>4</sub> magnetic nanoparticles as an efficient heterogeneous catalyst for the synthesis of multi-substituted imidazoles and study of their anti-inflammatory activity. In *APPLIED ORGANOMETALLIC CHEMISTRY*. ISSN 0268-2605, 2018, vol. 32, no. 1, pp., Registrované v: WOS
2. [1.1] MARZOUK, Adel A. - MOHAMED, Shaaban K. - ALJOHANI, Enas T. - ABDELHAMID, Antar A. New Method for Synthesis of Multi-substituted Imidazoles. In *JOURNAL OF HETEROCYCLIC CHEMISTRY*. ISSN 0022-152X, 2018, vol. 55, no. 7, pp. 1775-1782., Registrované v: WOS

3. [1.1] NEHA - DWIVEDI, Ashish Ranjan - KUMAR, Rakesh - KUMAR, Vinod. Recent Synthetic Strategies for Monocyclic Azole Nucleus and Its Role in Drug Discovery and Development. In *CURRENT ORGANIC SYNTHESIS*. ISSN 1570-1794, 2018, vol. 15, no. 3, pp. 321-340., Registrované v: WOS

4. [1.1] TAHTACI, Hakan - KARACIK, Hatice - ECE, Abdulilah - ER, Mustafa - SEKER, Mine Gul. Design, Synthesis, SAR and Molecular Modeling Studies of Novel Imidazo[2,1-b][1,3,4]Thiadiazole Derivatives as Highly Potent Antimicrobial Agents. In *MOLECULAR INFORMATICS*. ISSN 1868-1743, 2018, vol. 37, no. 3, pp., Registrované v: WOS

ADCA567

POKKULURI, Phani Raj - DUKE, Norma E.C. - WOOD, Stephen J. - COTTA, Michael A. - LI, Xin-Liang - BIELY, Peter - SCHIFFER, Marianne. Structure of the catalytic domain of glucuronoyl esterase Cip2 from *Hypocrea jecorina*. In *Proteins : Structure Function and Bioinformatics*, 2011, vol. 79, p. 2588-2592. (2010: 2.813 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0887-3585.

## Citácie:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS

2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS

3. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS

4. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In *BIORESOURCES AND BIOPROCESSING*, 2018, vol. 5, no., pp., Registrované v: WOS

5. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from *Ceriporiopsis subvermisporea* and *Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS

6. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS

ADCA568

POLÁKOVÁ, Monika - ŠESTÁK, Sergej - LATTOVÁ, Erika - PETRUŠ, Ladislav - MUCHA, Ján - TVAROŠKA, Igor - KÓŇA, Juraj. Alfa-D-Mannose derivatives as models designed for selective inhibition of Golgi alfa-mannosidase II. In *European Journal of Medicinal Chemistry*, 2011, vol. 46, p. 944-952. (2010: 3.193 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0223-5234.

## Citácie:

1. [1.1] RUSTLER, Karin - MICKERT, Matthias J. - NAZET, Julian - MERKL, Rainer - GORRIS, Hans H. - KOENIG, Burkhard. Development of photoswitchable inhibitors for beta-galactosidase. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2018, vol. 16, no. 40, pp. 7430-7437., Registrované v: WOS

ADCA569

POLÁKOVÁ, Monika - BELÁŇOVÁ, Martina - MIKUŠOVÁ, Katarína - LATTOVÁ, Erika - PERREAULT, Hélène. Synthesis of 1,2,3-tiazolo-linked octyl (1-6)-alfa-D-oligomannosides and their evaluation in mycobacterial mannosyltransferase assay. In *Bioconjugate chemistry*, 2011, vol. 22, p.



289-298. (2010: 5.002 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1043-1802.

Citácie:

1. [1.1] CATTIAUX, Laurent - PORKOLAB, Vanessa - FIESCHI, Franck - MALLET, Jean-Maurice. New branched amino acids for high affinity dendrimeric DC-SIGN ligands. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2018, vol. 26, no. 5, pp. 1006-1015., Registrované v: WOS

2. [1.1] CUTRONE, Giovanna - BENKOVICS, Gabor - MALANGA, Milo - MANUEL CASAS-SOLVAS, Juan - FENYVESI, Eva - SORTINO, Salvatore - GARCIA-FUENTES, Luis - VARGAS-BERENGUEL, Antonio. Mannoside and 1,2-mannobioside beta-cyclodextrin-scaffolded NO-photodonors for targeting antibiotic resistant bacteria. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 199, no., pp. 649-660., Registrované v: WOS

3. [1.1] HAIN, Julia - DESPRAS, Guillaume. A two-step approach to a glycoazobenzene macrocycle with remarkable photoswitchable features. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2018, vol. 54, no. 62, pp. 8563-8566., Registrované v: WOS

ADCA570 POLÁKOVÁ, Monika - BELÁŇOVÁ, M. - PETRUŠ, Ladislav - MIKUŠOVÁ, K. Synthesis of alkyl and cycloalkyl alfa-D-mannopyranosides and derivatives thereof and their evaluation in the mycobacterial mannosyltransferase assay. In *Carbohydrate Research*, 2010, vol. 345, p. 1339-1347. (2009: 2.025 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] PATRICK, Melonney - ZAHID, N. Idayu - KRIECHBAUM, Manfred - HASHIM, Rauzah. Guerbet glycolipids from mannose: liquid crystals properties. In *LIQUID CRYSTALS*. ISSN 0267-8292, 2018, vol. 45, no. 13-15, pp. 1970-1986., Registrované v: WOS

2. [1.1] ZHANG, Yanhua - CHEN, Langqiu - WU, Xiubing. Thermotropic liquid crystalline and surface-active properties of n-alkyl alpha-D-mannopyranosides. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2018, vol. 269, no., pp. 947-955., Registrované v: WOS

ADCA571 POLÁKOVÁ, Monika - ROSLUND, Mattias U. - EKHOLM, Filip S. - SALORANTA, Tiina - LEINO, Reko. Synthesis of beta-(1-2)-Linked Oligomannosides. Filip S. Ekholm, Tiina Saloranta, Reko Leino. In *European Journal of Organic Chemistry*, 2009, pp.870-888.

Citácie:

1. [1.1] Kollmann, C (Koellmann, Christoph); Jones, PG (Jones, Peter G.); Werz, DB (Werz, Daniel B.). Synthesis of 5-&ITC&IT-Methylated D-Mannose, D-Galactose, L-Gulose, and L-Altrose and Their Structural Elucidation by NMR Spectroscopy. In: *ORGANIC LETTERS* Vol. 20 (2018), Issue: 4, p. 1220-1223, Registrované v: WOS

ADCA572 POLAKOVIČ, Milan - ŠVITEL, Juraj - BUČKO, Marek - FILIP, Jaroslav - NEDĚLA, Vilém - ANSORGE-SCHUMACHER, Marion B. - GEMEINER, Peter. Progress in biocatalysis with immobilized viable whole cells: systems development, reaction engineering and applications. In *Biotechnology Letters*, 2017, vol. 39, p. 667-683. (2016: 1.730 - IF, Q3 - JCR, 0.628 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] GARZON-POSSE, Fabian - BECERRA-FIGUEROA, Liliana - HERNANDEZ-ARIAS, Jose - GAMBA-SANCHEZ, Diego. Whole Cells as Biocatalysts in Organic Transformations. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 6, pp., Registrované v: WOS

2. [1.1] TAMBORINI, Lucia - FERNANDES, Pedro - PARADISI, Francesca - MOLINARI, Francesco. Flow Bioreactors as Complementary Tools for Biocatalytic Process Intensification. In *TRENDS IN BIOTECHNOLOGY*. ISSN 0167-7799, 2018, vol. 36, no. 1, pp. 73-88., Registrované v: WOS

ADCA573 POSPIŠIL, M. - HOFER, M. - PÍPALOVÁ, I. - NETÍKOVÁ, J. - ŠANDULA, Jozef. Radioprotective effects of glucan can be enhanced by the joint administration of diclofenac. In *Folia biologica*, 1992, vol. 38, supplement, p. S22-S23. ISSN 0015-5500.

Citácie:

1. [1.1] CHEKI, Mohsen - YAHYAPOUR, Rasoul - FARHOOD, Bagher - REZAEYAN, Abolhassan - SHABEEB, Dheyauldeen - AMINI, Peyman - REZAPOOR, Saeed - NAJAFI, Masoud. COX-2 in Radiotherapy: A Potential Target for Radioprotection and Radiosensitization. In *CURRENT MOLECULAR PHARMACOLOGY*. ISSN 1874-4672, 2018, vol. 11, no. 3, pp. 173-183., Registrované v: WOS

ADCA574 POSPIŠIL, M. - ŠANDULA, Jozef - PIPALOVÁ, I. - HOFER, M. - VIKLICKÁ, Š. Hemopoiesis stimulating and radioprotective effects of carboxymethylglucan. In *Physiological Research*, 1991, vol. 40, p. 377-380. ISSN 0862-8408.

Citácie:

1. [1.1] LIU, Fang - WANG, Zhuanzi - LIU, Jia - LI, Wenjian. Radioprotective effect of orally administered beta-D-glucan derived from *Saccharomyces cerevisiae*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 115, no., pp. 572-579., Registrované v: WOS

- ADCA575 POSPIŠL, M. - HOFER, M. - PÍPALOVÁ, I. - VIKLICKÁ, S. - NETÍKOVÁ, J. - ŠANDULA, Jozef. Enhancement of hematopoietic recovery in gamma-irradiated mice by the joint use of diclofenac, an inhibitor of prostaglandin production, and glucan, a macrophage activator. In *Experimental Hematology*, 1992, vol. 20, p. 891-895. ISSN 0301-472X.  
Citácie:  
1. [1.1] CHEKI, Mohsen - YAHYAPOUR, Rasoul - FARHOOD, Bagher - REZAEYAN, Abolhassan - SHABEED, Dheyauldeen - AMINI, Peyman - REZAPOOR, Saeed - NAJAFI, Masoud. COX-2 in Radiotherapy: A Potential Target for Radioprotection and Radiosensitization. In *CURRENT MOLECULAR PHARMACOLOGY*. ISSN 1874-4672, 2018, vol. 11, no. 3, pp. 173-183., Registrované v: WOS
- ADCA576 POTERYAEVA, O.N. - FALAMEYEVA, O.V. - KOROLENKO, T.A. - KALEDIN, V.I. - DJANAYEVA, S.J. - NOWICKY, J. - ŠANDULA, Jozef. Cysteine proteinase inhibitor level in tumor and normal tissues in control and cured mice. In *Drugs under Experimental and Clinical Research*, 2000, vol. 26, p. 301-306. (2000 - Current Contents). ISSN 0378-6501.  
Citácie:  
1. [1.1] HOLLOWAY, Alex J. - YU, JiehJuen - ARULANANDAM, Bernard P. - HOSKINSON, Sarah M. - EAVES-PYLES, Tonyia. Cystatins 9 and C as a Novel Immunotherapy Treatment That Protects against Multidrug-Resistant New Delhi Metallo-Beta-Lactamase-1-Producing *Klebsiella pneumoniae*. In *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*. ISSN 0066-4804, 2018, vol. 62, no. 3, pp., Registrované v: WOS
- ADCA577 PRISENŽŇÁKOVÁ, Lubica - NOSÁLOVÁ, Gabriela - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. The pharmacological activity of wheat bran polysaccharides. In *Fitoterapia*, 2010, vol. 81, p. 1037-1044.  
Citácie:  
1. [1.1] AKHTAR, Masood - HAMAYUN, Muteen - IQBAL, Zafar - AWAIS, Mian Muhammad - ANWAR, Muhammad Irfan. Evaluation of biological response modification and immunotherapeutic activities of barley-derived arabinoxylans against coccidiosis in commercial broilers. In *TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES*. ISSN 1300-0128, 2018, vol. 42, no. 1, pp. 55-64., Registrované v: WOS  
2. [1.1] UCAR, Ruhan C. - SENGUL, Aslihan - CELIKTAS, Melih S. Biorefineries for wheat bran: sustainable utilization and market potential. In *SUSTAINABLE RECOVERY AND REUTILIZATION OF CEREAL PROCESSING BY-PRODUCTS*. ISSN 2042-8049, 2018, vol., no., pp. 87-124., Registrované v: WOS
- ADCA578 PROKSA, B. - UHRÍN, Dušan - ADAMCOVÁ, J. - FUSKA, J. Oxidation of brefeldin A. In *Pharmazie*, 1992, vol. 47, p. 582-584. ISSN 0031-7144.  
Citácie:  
1. [1.1] PAEK, Seung-Mann. Recent Synthesis and Discovery of Brefeldin A Analogs. In *MARINE DRUGS*. ISSN 1660-3397, 2018, vol. 16, no. 4, pp., Registrované v: WOS
- ADCA579 PROKSA, Bohumil - UHRÍN, Dušan - ŠTURDÍKOVÁ, M. - FUSKA, J. 1-acetyl-beta-carboline, a new metabolite of *Streptomyces kasugaensis*. In *Acta Biotechnologica*, 1990, vol. 10, p.337-340.  
Citácie:  
1. [1.1] NASFI, Zina - BUSCH, Henrik - KEHRAUS, Stefan - LINARES-OTOYA, Luis - KOENIG, Gabriele M. - SCHAEBERLE, Till F. - BACHOUAL, Rafik. Soil Bacteria Isolated From Tunisian Arid Areas Show Promising Antimicrobial Activities Against Gram-Negatives. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
- ADCA580 PROKSA, Bohumil - UHRÍN, Dušan - BATSUREN, D. - BATBAIAR, N. - SELENCE, D. 11-Acetyl-1,19-epoxydenudatine: A new alkaloid from *Aconitum barbatum*. In *Planta medica*, 1990, vol. 56, p. 461-463. ISSN 0032-0943.  
Citácie:  
1. [1.2] ZHANG, Jiao - BAI, Wei - LI, Yu Ze - ZHANG, Li - SONG, Xiao Mei. One new diterpenoid alkaloid from roots of *Aconitum sinomontanum*. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-08-12, 49, 15, pp. 3562-3566., Registrované v: SCOPUS
- ADCA581 PROKSA, Bohumil - UHRÍN, Dušan - ADAMCOVÁ, J. - MÚČKOVÁ, M. - FUSKA, J. Vermiculin derivatives. 1. Synthesis of vermiculin derivatives. In *Pharmazie*, 1993, vol. 48, p. 738-740. ISSN 0031-7144.  
Citácie:  
1. [1.1] STEIB, Philip - BREIT, Bernhard. Enantioselective Rhodium-Catalyzed Dimerization of omega-Allenyl Carboxylic Acids: Straightforward Synthesis of C-2-Symmetric Macrodilides. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2018, vol. 57, no. 22, pp. 6572-6576., Registrované v: WOS
- ADCA582 PRUSSE, U. - BILANCETTI, L. - BUČKO, Marek - BUGARSKI, B. - BUKOWSKI, J. - GEMEINER, Peter - LEWINSKA, D. - MANOJLOVIC, V. - MASSART, B. - NASTRUZZI, C. - NEDOVIC, V. - PONCELET, D. - SIEBENHAAR, S. - TOBLER, L. - TOSI, A. - VIKARTOVSKÁ,

Alica, Welwardová - VORLOP, K.D. Comparison of different technologies for alginate beads production. In Chemical papers, 2008, vol. 62, p. 364-374. (2007: 0.367 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] CUJIC, Nada - KARDUM, Nevena - SAVIKIN, Katarina - ZDUNIC, Gordana - JANKOVIC, Teodora - MENKOVIC, Nebojsa. Potential of Chokeberry (*Aronia Melanocarpa* L.) as a Therapeutic Food. In THERAPEUTIC FOODS, 2018, vol. 8, no., pp. 209-237., Registrované v: WOS
2. [1.1] DURUKSU, Gokhan - POLAT, Selen - KAYIS, Leyla - EKIMCI GURCAN, Nur - GACAR, Gulcin - YAZIR, Yusufhan. Improvement of the insulin secretion from beta cells encapsulated in alginate/poly-L-histidine/alginate microbeads by platelet-rich plasma. In TURKISH JOURNAL OF BIOLOGY. ISSN 1300-0152, 2018, vol. 42, no. 4, pp. 297-306., Registrované v: WOS
3. [1.1] GANESAN, Kathirvel - BUDTOVA, Tatiana - RATKE, Lorenz - GURIKOV, Pavel - BAUDRON, Victor - PREIBISCH, Imke - NIEMEYER, Philipp - SMIRNOVA, Irina - MILOW, Barbara. Review on the Production of Polysaccharide Aerogel Particles. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 11, pp., Registrované v: WOS
4. [1.1] KAMPERMAN, Tom - KARPERIEN, Marcel - LE GAC, Severine - LEIJTEN, Jeroen. Single-Cell Microgels: Technology, Challenges, and Applications. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 8, pp. 850-865., Registrované v: WOS
5. [1.1] PREIBISCH, Imke - NIEMEYER, Philipp - YUSUFOGLU, Yusuf - GURIKOV, Pavel - MILOW, Barbara - SMIRNOVA, Irina. Polysaccharide-Based Aerogel Bead Production via Jet Cutting Method. In MATERIALS. ISSN 1996-1944, 2018, vol. 11, no. 8, pp., Registrované v: WOS
6. [1.1] SHISHIR, Mohammad Rezaul Islam - XIE, Lianghua - SUN, Chongde - ZHENG, Xiaodong - CHEN, Wei. Advances in micro and nano-encapsulation of bioactive compounds using biopolymer and lipid-based transporters. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2018, vol. 78, no., pp. 34-60., Registrované v: WOS
7. [1.1] VISSER, Claas Willem - KAMPERMAN, Tom - KARBAAT, Lisanne P. - LOHSE, Detlef - KARPERIEN, Marcel. In-air microfluidics enables rapid fabrication of emulsions, suspensions, and 3D modular (bio)materials. In SCIENCE ADVANCES. ISSN 2375-2548, 2018, vol. 4, no. 1, pp., Registrované v: WOS

ADCA583

PUCHART, Vladimír - BIELY, Peter. Simultaneous production of endo-beta-1,4-xylanase and branched xylooligosaccharides by *Thermomyces lanuginosus*. In Journal of Biotechnology, 2008, vol. 137, p. 34-43. (2008 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In CURRENT PROTEIN & PEPTIDE SCIENCE. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS

ADCA584

PUCHART, Vladimír. Glycoside phosphorylases: Structure, catalytic properties and biotechnological potential. In Biotechnology Advances, 2015, vol. 33, p. 261-276. (2014: 9.015 - IF, Q1 - JCR, 2.941 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0734-9750.

Citácie:

1. [1.1] ADHARIS, Azis - PETROVIC, Dejan M. - OZDAMAR, Ibrahim - WOORTMAN, Albert J. - LOOS, Katja. Environmentally friendly pathways towards the synthesis of vinyl-based oligocelluloses. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 193, no., pp. 196-204., Registrované v: WOS
2. [1.1] CHEN, Li-Ye - WU, Li-Ping - ZHANG, Hong-Li - GAO, Yu-Bing - GAI, Jing-Gang. Tris(hydroxymethyl) aminomethane polyamide thin-film-composite antifouling reverse osmosis membrane. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 8, pp., Registrované v: WOS
3. [1.1] KADOKAWA, Jun-ichi. Enzymatic preparation of functional polysaccharide hydrogels by phosphorylase catalysis. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2018, vol. 90, no. 6, pp. 1045-1054., Registrované v: WOS
4. [1.1] KADOKAWA, Jun-ichi. alpha-Glucan Phosphorylase-Catalyzed Enzymatic Reactions Using Analog Substrates to Synthesize Non-Natural Oligo- and Polysaccharides. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 10, pp., Registrované v: WOS
5. [1.1] PAPASPYRIDIS, Lefki-Maria - ZERVA, Anastasia - TOPAKAS, Evangelos. Biocatalytic Synthesis of Fungal beta-Glucans. In CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 7, pp., Registrované v: WOS
6. [1.2] LEGENTIL, Laurent - FERRIÈRES, Vincent. Regioselective glycosylation: What's new? In Carbohydrate Chemistry. ISSN 2041353X, 2018-01-01, 43, pp. 104-134., Registrované v: SCOPUS
7. [1.2] NAKAUCHIDA, Takuya - YAMAMOTO, Kazuya - KADOKAWA, Jun Ichi. Hierarchically



- controlled assemblies from amylose analog aminopolysaccharides by reductive amination: From nano- to macrostructures. In Journal of Applied Polymer Science. ISSN 00218995, 2018-02-20, 135, 8, pp., Registrované v: SCOPUS*
- ADCA585 PUCHART, Vladimír - BIELY, Peter. Redistribution of acetyl group on the non-reducing end xylopyranosyl residues and their removal by xylan deacetylases. In Applied Microbiology and Biotechnology, 2015, vol. 99, p. 3865-3873. (2014: 3.337 - IF, Q1 - JCR, 1.327 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0175-7598.
- Citácie:
- [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
  - [1.1] MARX, Sanette - RADEBE, Lehlohonono J. Microwave-assisted recovery of monomeric sugars from an acidic steam treated wood hydrolysate. In HELIYON. ISSN 2405-8440, 2018, vol. 4, no. 11, pp., Registrované v: WOS
  - [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
- ADCA586 PUCHART, Vladimír - AGGER, Jane W. - BERRIN, Jean-Guy - VÁRNAI, Anikó - WESTERENG, Bjorge - BIELY, Peter. Comparison of fungal carbohydrate esterases of family CE16 on artificial and natural substrates. In Journal of Biotechnology, 2016, vol. 233, p.228-236. (2015: 2.667 - IF, Q2 - JCR, 1.068 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0168-1656.
- Citácie:
- [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
  - [1.1] XIE, Chunliang - GONG, Wenbing - ZHU, Zuohua - YAN, Li - HU, Zhenxiu - PENG, Yuande. Comparative transcriptomics of Pleurotus eryngii reveals blue-light regulation of carbohydrate-active enzymes (CAZymes) expression at primordium differentiated into fruiting body stage. In GENOMICS. ISSN 0888-7543, 2018, vol. 110, no. 3, pp. 201-209., Registrované v: WOS
- ADCA587 PUCHART, Vladimír - BERRIN, Jean-Guy - HAON, Mireille - BIELY, Peter. A unique CE16 acetyl esterase from Podospora anserina active on polymeric xylan. In Applied Microbiology and Biotechnology, 2015, vol. 99, p. 10515-10526. (2014: 3.337 - IF, Q1 - JCR, 1.327 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0175-7598.
- Citácie:
- [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
- ADCA588 PUCHART, Vladimír - BIELY, Peter. Glycosylation of internal sugar residues of oligosaccharides catalyzed by alfa-galactosidase from Aspergillus fumigatus. In Biochimica et Biophysica Acta : general subjects, 2005, vol. 1726, p. 206-216. (2004: 3.369 - IF, karentované - CCC). (2005 - Current Contents, SCOPUS). ISSN 0304-4165.
- Citácie:
- [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain alpha-galactosidase from Papiliotrema flavescens. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS
  - [1.1] YOU, Xin - QIN, Zhen - YAN, Qiaojuan - YANG, Shaoqing - LI, Yanxiao - JIANG, Zhengqiang. Structural insights into the catalytic mechanism of a novel glycoside hydrolase family 113 beta-1,4-mannanase from Amphibacillus xylanus. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 30, pp. 11746-11757., Registrované v: WOS
- ADCA589 PUCHART, Vladimír - KATAPODIS, P. - BIELY, Peter - KREMnický, Ľubomír - CHRISTAKOPOULOS, P. - VRŠANSKÁ, Mária - KEKOS, D. - MACRIS, B.J. - BHAT, M.K. Production of xylanases, mannanases, and pectinases by thermophilic fungus Thermomyces lanuginosus. In Enzyme and Microbial Technology, 1999, vol. 24, p. 355-361. ISSN 0141-0229.
- Citácie:
- [1.1] SINGH, Shalini. White-Rot Fungal Xylanases for Applications in Pulp and Paper

- Industry. In FUNGAL BIOREFINERIES. ISSN 2198-7777, 2018, vol., no., pp. 47-63., Registrované v: WOS*
2. [1.1] SREELATHA, B. - SHYAMPASAD, G. - RAO, V. Koteswar - GIRISHAM, S. *Microbial synthesis of mammalian metabolites of spironolactone by thermophilic fungus Thermomyces lanuginosus. In STEROIDS. ISSN 0039-128X, 2018, vol. 136, no., pp. 1-7., Registrované v: WOS*
- ADCA590 PUCHART, Vladimír - VRŠANSKÁ, Mária - BHAT, M. - BIELY, Peter. Purification and characterization of alfa-galactosidase from a thermophilic fungus *Thermomyces lanuginosus*. In *Biochimica et Biophysica Acta*, 2000, vol. 1524, p. 27-37. ISSN 0006-3002.
- Citácie:
1. [1.1] BAFFA JUNIOR, Jose Carlos - VIANA, Pollyanna Amaral - DE REZENDE, Sebastiao Tavares - FERREIRA SOARES, Nilda de Fatima - GUIMARAES, Valeria Monteze. *Immobilization of an alpha-galactosidase from Debaryomyces hanseni UFV-1 in cellulose film and its application in oligosaccharides hydrolysis. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2018, vol. 111, no., pp. 30-36., Registrované v: WOS*
2. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. *Characterization of a long-chain alpha-galactosidase from Papiliotrema flavescens. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS*
- ADCA591 PUCHART, Vladimír - VRŠANSKÁ, Mária - SVOBODA, P. - POHL, J. - OGEL, Z.B. - BIELY, Peter. Purification and characterization of two forms of endo-beta-1,4-mannanase from a thermotolerant fungus, *Aspergillus fumigatus* IMI 385708 (formerly *Thermomyces lanuginosus* IMI 158749). In *Biochimica et Biophysica Acta : general subjects*, 2004, vol. 1647, p. 239-250. (2003: 2.557 - IF, karentované - CCC). (2004 - Current Contents, SCOPUS). ISSN 0304-4165.
- Citácie:
1. [1.1] KAEWKROD, Aniwat - NIAMSIRI, Nuttawee - LIKITWATTANASADE, Teerarat - LERTSIRI, Sittiwat. *Activities of macerating enzymes are useful for selection of soy sauce koji. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2018, vol. 89, no., pp. 735-739., Registrované v: WOS*
2. [1.1] MORRILL, Johan - MANBERGER, Anna - ROSENGREN, Anna - NAIDJONOKA, Polina - VON FREIESLEBEN, Pernille - KROGH, Kristian B. R. M. - BERGQUIST, Karl-Erik - NYLANDER, Tommy - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick - STALBRAND, Henrik. *beta-Mannanase-catalyzed synthesis of alkyl mannoooligosides. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 12, pp. 5149-5163., Registrované v: WOS*
3. [1.1] OJIMA, Takao - RAHMAN, Mohammad M. - KUMAGAI, Yuya - NISHIYAMA, Ryuji - NARSICO, Joemark - INOUE, Akira. *Polysaccharide-Degrading Enzymes From Marine Gastropods. In MARINE ENZYMES AND SPECIALIZED METABOLISM, PT B. ISSN 0076-6879, 2018, vol. 605, no., pp. 457-497., Registrované v: WOS*
4. [1.1] SONG, Qiaoying - LI, Ting - XUE, Wei - LI, Nan - CHEN, Linting - DAI, Shuhan - ZHU, Zhenyun. *Preparation, structure analysis and ACE inhibitory activity of konjac oligosaccharide. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2018, vol. 124, no., pp. 812-821., Registrované v: WOS*
5. [3.2] Group Author(s). Uniprot Consortium. Q4WBS1. IN UniProt Knowledgebase, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: Data Citation Index
- ADCA592 PUCHART, Vladimír - FRAŇOVÁ, Lucia - MORKEBERG KROGH, Kristian B.R. - HOFF, Tine - BIELY, Peter\*\*. Action of different types of endoxylanases on eucalyptusxylan in situ. In *Applied Microbiology and Biotechnology*, 2018, vol. 102, p. 1725-1736. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598.
- Citácie:
1. [1.1] CORRADINI, Felipe A. S. - BALDEZ, Thais O. - MILESSI, Thais S. S. - TARDIOLI, Paulo W. - FERREIRA, Antonio G. - GIORDANO, Roberto de Campos - GIORDANO, Raquel de L. C. *Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 197, no., pp. 167-173., Registrované v: WOS*
2. [1.1] LI, Shuli - HUANG, Weiwei - CHANG, Juan - WANG, Ping - YIN, Qingqiang - LIU, Chaoqi - WANG, Erzhu - LU, Fushan. *XYLANASE GENE MUTATION BY ERROR-PRONE PCR AND EXPRESSION IN Pichia pastoris. In BIOSCIENCE JOURNAL. ISSN 1981-3163, 2018, vol. 34, no. 3, pp. 1369-1377., Registrované v: WOS*
- ADCA593 RAAB, Michal - TVAROŠKA, Igor. The binding properties of the H5N1 influenza virus neuraminidase as inferred from molecular modeling. In *Journal of molecular modeling*, 2011, vol. 17,



p. 1445-1456. (2010: 1.871 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1610-2940.

Citácie:

1. [1.1] COLOMBO, Cinzia - PODLIPNIK, Crtomir - LO PRESTI, Leonardo - NIKURA, Masahiro - BENNET, Andrew J. - BERNARDI, Anna. Design and synthesis of constrained bicyclic molecules as candidate inhibitors of influenza A neuraminidase. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 2, pp., Registrované v: WOS

2. [1.1] RICHARDS, Michele R. - GUO, Tianlin - HUNTER, Carmanah D. - CAIRO, Christopher W. Molecular dynamics simulations of viral neuraminidase inhibitors with the human neuraminidase enzymes: Insights into isoenzyme selectivity. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2018, vol. 26, no. 19, pp. 5349-5358., Registrované v: WOS

ADCA594

RADOŠINSKÁ, Jana - MÉZEŠOVÁ, Lucia - OKRUHLICOVÁ, Ľudmila - FRIMMEL, Karel - BREIEROVÁ, Emília - BARTEKOVÁ, Monika - VRBJAR, Norbert. Effect of yeast biomass with high content of carotenoids on erythrocyte deformability, NO production and Na,K-ATPase activity in healthy and LPS treated rats. In Clinical Hemorheology and Microcirculation, 2016, vol. 64, no. 2, pp. 125-134. (2015: 1.815 - IF, Q3 - JCR, 0.708 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1386-0291.

Citácie:

1. [1.1] WANG, Ying - CUI, Hao - NIU, Fei - LIU, Shuo-Lin - LI, Yao - ZHANG, Li-Min - DU, Hui-Bo - ZHAO, Zi-Gang - NIU, Chun-Yu. Effect of Resveratrol on Blood Rheological Properties in LPS-Challenged Rats. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, 2018, vol. 9, no., pp., Registrované v: WOS

ADCA595

RANTA, Kaarina - NIEMINEN, Kalsi - EKHOLM, Filip S. - POLÁKOVÁ, Monika - ROSLUND, Mattias U. - SALORANTA, Tiina - LEINO, Reko - SAVOLAINEN, Johannes. Evaluation of immunostimulatory activities of synthetic mannose-containing structures mimicking the beta-(1-2)-linked cell wall mannans of candida albicans. In Clinical and Vaccine Immunology, 2012, vol. 19, p. 1889-1893. (2011: 2.546 - IF, 1.125 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1556-6811.

Citácie:

1. [1.1] HUANG, Jiawei - YU, Lina - ZHANG, Wenli - ZHANG, Tao - GUANG, Cuie - MU, Wanmeng. Production of d-mannose from d-glucose by co-expression of d-glucose isomerase and d-lyxose isomerase in Escherichia coli. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2018, vol. 98, no. 13, pp. 4895-4902., Registrované v: WOS

2. [1.1] YATSENKOVA, Olga V. - SKRIPNIKOV, Andrei M. - KOZLOVA, Svetlana A. - IVANCHENKO, Natalia M. - KUZNETSOV, Boris N. The Study of Influence of Acid Catalysts Nature on the Composition of Products of Pine Wood Hemicelluloses Hydrolysis. In JOURNAL OF SIBERIAN FEDERAL UNIVERSITY-CHEMISTRY. ISSN 1998-2836, 2018, vol. 11, no. 1, pp. 42-55., Registrované v: WOS

ADCA596

RAPP, G. - KLAUDINY, Jaroslav - HAGENDORFF, G. - LUCK, M.R. - SCHEIT, K.H. Complete sequence of the coding region of human elongation factor-II (EF-2) by enzymatic amplification of CDNA from human ovarian granulosa cells. In Biological Chemistry Hoppe-Seyler, 1989, vol. 370, p. 1071-1075. ISSN 1431-6730.

Citácie:

1. [3.2] Group Author(s). Uniprot Consortium. P13639. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/P13639>, Registrované v: Data Citation Index

ADCA597

RAPP, G. - MUCHA, Ján - EINSPANIER, R. - SCHEIT, K.H. Cloning and sequence analysis of a cDNA from human ovarian granulosa cells encoding the C-terminal part of human elongation factor 2. In Biological chemistry Hoppe-Seyler : Journal of Physiological Chemistry, 1988, vol. 369, p. 247-250. ISSN 1431-6730.

Citácie:

1. [1.1] Group Author(s). Uniprot Consortium. P13639. IN UniProt Knowledgebase, 2018.  
Dostupné na internete <http://www.uniprot.org/uniprot/P13639>, Registrované v: WOS

ADCA598

RAPP, G. - FREUDENSTEIN, J. - KLAUDINY, Jaroslav - MUCHA, Ján - WEMPE, F. - ZIMMER, M. - SCHEIT, K.H. Characterization of 3 abundant messenger RNAs from human ovarian granulosa cells. In DNA and Cell Biology, 1990, vol. 9, p. 479-485. ISSN 1044-5498.

Citácie:

1. [3.2] Boyarsky, K.Yu.; Kachiani, E.I. Molecular mechanisms of folliculogenesis. From ovulation to the corpus luteum formation. In: Problemy reproduktsii, 2018, vol. 24, issue 2, p. 9-22, ISSN 1025-7217., Registrované v: Russian Science Citation Index

2. [3.2] Group Author(s). Uniprot Consortium. P01033. IN UniProt Knowledgebase, 2018.  
Dostupné na internete: <http://www.uniprot.org/uniprot/P01033>, Registrované v: Data Citation Index

3. [3.2] Group Author(s). Uniprot Consortium. Q00994. IN UniProt Knowledgebase, 2018.

Dostupné na internete: <http://www.uniprot.org/uniprot/Q00994>, Registrované v: Data Citation Index

- ADCA599 RAPTA, Peter - VALACHOVÁ, Katarína - GEMEINER, Peter - ŠOLTĚS, Ladislav. High-molar-mass hyaluronan behavior during testing its radical scavenging capacity in organic and aqueous media: effects of the presence of manganese(II) ions. In Chemistry & biodiversity, 2009, vol. 6, p. 162-169. (2008: 1.659 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1612-1872.  
Citácie:  
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA600 REBROŠ, Martin - LIPTÁK, Lukáš - ROSENBERG, Michal - BUČKO, Marek - GEMEINER, Peter. Biocatalysis with Escherichia coli overexpressing cyclopentanone monooxygenase immobilized in polyvinyl alcohol gel. In Letters in Applied Microbiology, 2014, vol. 58, p. 556-563. (2013: 1.749 - IF, 0.791 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0266-8254.  
Citácie:  
1. [1.1] Stloukal, R., Watzková, J., & Turková, K. LentiKat's: Industrial biotechnology, experiences and visions. In: Gonzalo de Gonzalo, Pablo Domínguez de María (eds.). *RSC Catalysis Series*, 2018(29), chapter 12, pp. 325-344, Registrované v: WOS
- ADCA601 REDJALA, Tanegmart - ZELKO, Ivan - STERCKEMAN, Thibault - LEGUÉ, Valérie - LUX, Alexander. Relationship between root structure and root cadmium uptake in maize. In Environmental and Experimental Botany, 2011, vol. 71, p. 241-248. (2010: 2.699 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0098-8472.  
Citácie:  
1. [1.1] BLOEM, Elke - VOGLER, Iris. Influence of graded EDTA applications on mobilization and translocation of trace elements a soil column experiment. In JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE. ISSN 1436-8730, 2018, vol. 181, no. 2, pp. 220-230., Registrované v: WOS  
2. [1.1] CHEN, Xiaohui - OUYANG, Younan - FAN, Yicong - QIU, Boyin - ZHANG, Guoping - ZENG, Fanrong. The pathway of transmembrane cadmium influx via calcium-permeable channels and its spatial characteristics along rice root. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2018, vol. 69, no. 21, pp. 5279-5291., Registrované v: WOS  
3. [1.1] FENG, Juanjuan - JIA, Weitao - LV, Sulian - BAO, Hexigeduleng - MIAO, Fangfang - ZHANG, Xuan - WANG, Jinhui - LI, Jihong - LI, Dongsheng - ZHU, Cheng - LI, Shizhong - LI, Yinxin. Comparative transcriptome combined with morpho-physiological analyses revealed key factors for differential cadmium accumulation in two contrasting sweet sorghum genotypes. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2018, vol. 16, no. 2, pp. 558-571., Registrované v: WOS  
4. [1.1] FERREIRA, Paulo A. A. - MARCHEZAN, Carina - CERETTA, Carlos A. - TAROUÇO, Camila P. - LOURENZI, Cledimar R. - SILVA, Leandro S. - SORIANI, Hilda H. - NICOLOSO, Fernando T. - CESCO, Stefano - MIMMO, Tanja - BRUNETTO, Gustavo. Soil amendment as a strategy for the growth of young vines when replanting vineyards in soils with high copper content. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2018, vol. 126, no., pp. 152-162., Registrované v: WOS  
5. [1.1] GAION, Lucas Aparecido - LOREVICE, Paulo Guilherme - MONTEIRO, Carolina Cristina - GAVASSI, Marina Alves - D'AMICO-DAMLIAO, Victor - GRATAO, Priscila Lupino - GASPARINO, Eduardo Custodio - CARVALHO, Rogerio Falleiros. The role of phytochromes in cadmium stress responses in tomato. In BRAGANTIA. ISSN 1678-4499, 2018, vol. 77, no. 1, pp. 13-22., Registrované v: WOS  
6. [1.1] GUO, Jing Yi - ZHANG, Man - ZHANG, Xi Zhou - LI, Ting Xuan - ZHANG, Lu - HUANG, Fu - CHEN, Dong Ming - SUN, Xian Ming. Characterization of cadmium uptake kinetics in cadmium pollution-safe rice material. In Chinese Journal of Applied Ecology. ISSN 10019332, 2018-01-01, 29, 1, pp. 278-284., Registrované v: WOS  
7. [1.1] KOLLAROVA, Karin - KAMENICKA, Viktoria - VATEHOVA, Zuzana - LISKOVA, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 222, no., pp. 59-66., Registrované v: WOS  
8. [1.1] MUTHUSARAVANAN, S. - SIVARAJASEKAR, N. - VIVEK, J. S. - PARAMASIVAN, T. - NAUSHAD, Mu. - PRAKASHMARAN, J. - GAYATHRI, V. - AL-DUALI, Omar K. Phytoremediation of heavy metals: mechanisms, methods and enhancements. In ENVIRONMENTAL CHEMISTRY LETTERS. ISSN 1610-3653, 2018, vol. 16, no. 4, pp. 1339-1359., Registrované v: WOS

9. [1.1] NASCIMENTO-JUNIOR, Ivanildo - MORO, Gustavo V. - MORO, Fabiola V. Indirect selection of maize genotypes based on associations between root agronomic and anatomical characters. In *CHILEAN JOURNAL OF AGRICULTURAL RESEARCH*. ISSN 0718-5839, 2018, vol. 78, no. 1, pp. 39-47., Registrované v: WOS
10. [1.1] SAHI, Vaidurya Pratap - BALUSKA, Frantisek. Apoplastic Barriers: Their Structure and Function from a Historical Perspective. In *CONCEPTS IN CELL BIOLOGY HISTORY AND EVOLUTION*. ISSN 1861-1370, 2018, vol. 23, no., pp. 155-183., Registrované v: WOS
11. [1.2] SOUKUP, Aleš - TYLOVÁ, Edita. Apoplastic barriers: Their structure and function from a historical perspective. In *Plant Cell Monographs*. ISSN 18611370, 2018-01-01, 23, pp. 155-183., Registrované v: SCOPUS
- ADCA602 REHÁK, J. - FIŠERA, L. - KOŽÍŠEK, J. - PERAŠÍNOVÁ, L. - STEINER, Bohumil - KOŮŠ, Miroslav. Samarium diiodide-induced reductive coupling of chiral nitrones with methyl acrylate. In *ARKIVOC*, viii, vol. 2008, part, (2008).  
Citácie:  
1. [1.1] ZHENG, Xiao - HUANG, Pei-Qiang. SmI<sub>2</sub> and Titanocene-Mediated Coupling Reactions of alpha-Aminoalkyl Radicals and Applications to the Synthesis of Aza-Heterocycles. In *PROGRESS IN CHEMISTRY*. ISSN 1005-281X, 2018, vol. 30, no. 5, pp. 528-546., Registrované v: WOS
- ADCA603 REMEŠ, Zdeněk - MIČOVÁ, Júlia - KRIST, Pavel - CHVÁTIL, David - EFFENBERG, Roman - NESLÁDEK, Miloš. N-V-related fluorescence of the monoenergetic high-energy electronirradiated diamond nanoparticles. In *Physica Status Solidi A : applications and materials science*, 2015, vol. 212, p. 2519-2524. (2014: 1.616 - IF, Q2 - JCR, 0.692 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1862-6300.  
Citácie:  
1. [1.1] HAVLIK, Jan - PETRAKOVA, Vladimira - KUCKA, Jan - RAABOVA, Helena - PANEK, Dalibor - STEPAN, Vaclav - CILOVA, Zuzana Zlamalova - REINECK, Philipp - STURSA, Jan - KUCERA, Jan - HRUBY, Martin - CIGLER, Petr. Extremely rapid isotropic irradiation of nanoparticles with ions generated in situ by a nuclear reaction. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
- ADCA604 REVAJOVÁ, V. - LEVKUT, Mikuláš - LEVKUTOVÁ, M. - BOŘUTOVÁ, Radka - GREŠÁKOVÁ, Ľubomíra - KOŠÍKOVÁ, Božena - LENG, Ľubomír. Effect of lignin supplementation of a diet contaminated with Fusarium mycotoxins on blood and intestinal lymphocyte subpopulations in chickens. In *Acta Veterinaria Hungarica*, 2013, vol. 61, no. 3, p. 354-365. (2012: 1.173 - IF, 0.422 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0236-6290.  
Citácie:  
1. [1.1] TAMMINEN, Lena-Mari - EMANUELSON, Ulf - BLANCO-PENEDO, Isabel. Systematic Review of Phytotherapeutic Treatments for Different Farm Animals Under European Conditions. In *FRONTIERS IN VETERINARY SCIENCE*. ISSN 2297-1769, 2018, vol. 5, art. no. 140., Registrované v: WOS
- ADCA605 RICE, P.J. - KELLEY, J.L. - KOGAN, Grigorij - ENSLEY, H.E. - KALBFLEISCH, J.H. - BROWDER, I.W. - WILLIAMS, D.I. Human monocyte scavenger receptors are pattern recognition receptors for (1→3)-β-D-glucans. In *Journal of Leukocyte Biology*, 2002, vol. 72, p. 140-146. ISSN 0741-5400.  
Citácie:  
1. [1.1] CAMILLI, Giorgio - TABOURET, Guillaume - QUINTIN, Jessica. The Complexity of Fungal beta-Glucan in Health and Disease: effects on the Mononuclear Phagocyte System. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS  
2. [1.1] DE GRAAFF, Priscilla - GOVERS, Coen - WICHERS, Harry J. - DEBETS, Reno. Consumption of glucans to spice up T cell treatment of tumors: a review. In *EXPERT OPINION ON BIOLOGICAL THERAPY*. ISSN 1471-2598, 2018, vol. 18, no. 10, pp. 1023-1040., Registrované v: WOS  
3. [1.1] GOUR, Naina - LAJOIE, Stephane - SMOLE, Ursula - WHITE, Marquitta - HU, Donglei - GODDARD, Page - HUNTSMAN, Scott - ENG, Celeste - MAK, Angel - OH, Sam - KIM, Jung-Hyun - SHARMA, Annu - PLANTE, Sophie - SALEM, Ikhlass Haj - RESCH, Yvonne - XIAO, Xiao - YAO, Nu - SINGH, Anju - VRTALA, Susanne - CHAKIR, Jamila - BURCHARD, Esteban G. - LANE, Andrew P. - WILLS-KARP, Marsha. Dysregulated invertebrate tropomyosin-dectin-1 interaction confers susceptibility to allergic diseases. In *SCIENCE IMMUNOLOGY*. ISSN 2470-9468, 2018, vol. 3, no. 20, pp., Registrované v: WOS  
4. [1.1] LI, Huixian - DONG, Zhou - LIU, Xiaojia - CHEN, Huamin - LAI, Furao - ZHANG, Mengmeng. Structure characterization of two novel polysaccharides from *Colocasia esculenta* (taro) and a comparative study of their immunomodulatory activities. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 42, no., pp. 47-57., Registrované v: WOS  
5. [1.1] PATTEN, Daniel A. - SHETTY, Shishir. More Than Just a Removal Service: Scavenger



- Receptors in Leukocyte Trafficking. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS*
6. [1.1] SURAYOT, Utoomporn - LEE, SangMin - YOU, SangGuan. Effects of sulfated fucan from the sea cucumber *Stichopus japonicus* on natural killer cell activation and cytotoxicity. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 108, no., pp. 177-184., Registrované v: WOS*
7. [1.2] KIM, Han Wool - JEE, Hee Sook - SHIN, Kwang Soon. Polysaccharide isolated from fermented barley extract activates macrophages via the MAPK and NF- $\kappa$ B pathways. In *Korean Journal of Food Science and Technology. ISSN 03676293, 2018-01-01, 50, 5, pp. 555-563., Registrované v: SCOPUS*
- ADCA606 ROESSL, Ulrich - NAHÁLKA, Jozef - NIDETZKY, Bernd. Carrier-free immobilized enzymes for biocatalysis. In *Biotechnology Letters, 2010, vol.32, p. 341-350. (2009: 1.636 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0141-5492.*
- Citácie:
1. [1.1] KUMAR, Ashok - WU, Gaobing - LIU, Ziduo. Synthesis and characterization of cross linked enzyme aggregates of serine hydroxyl methyltransferase from *Idiomarina leihiensis*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 683-690., Registrované v: WOS*
2. [1.1] LI, Xiaodong - YU, Zefen - BIAN, Zhaohui - XU, Jianping - ZHANG, Li - QIAO, Min. Physicochemical Characterization of alpha-Amylase as Crosslinked Enzyme Aggregates. In *CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 8, pp., Registrované v: WOS*
3. [1.1] XU, Meng-Qiu - WANG, Shuang-Shuang - LI, Li-Na - GAO, Jian - ZHANG, Ye-Wang. Combined Cross-Linked Enzyme Aggregates as Biocatalysts. In *CATALYSTS. ISSN 2073-4344, 2018, vol. 8, no. 10, pp., Registrované v: WOS*
4. [1.1] ZOU, Bin - CHU, Yanhong - XIA, Jiaojiao - CHEN, Xueshan - HUO, Shuhao. Immobilization of Lipase by Ionic Liquid-Modified Mesoporous SiO<sub>2</sub> Adsorption and Calcium Alginate-Embedding Method. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2018, vol. 185, no. 3, pp. 606-618., Registrované v: WOS*
- ADCA607 RUDD, T.R. - SKIDMORE, M.A. - GUERRINI, M. - HRICOVÍNI, Miloš - POWELL, A.K. - SILIGARDI, G. - YATES, E.A. The conformation and structure of GAGs: recent progress and perspectives. In *Current Opinion in Structural Biology, 2010, vol. 20, p. 567-574. (2009: 9.344 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0959-440X.*
- Citácie:
1. [1.1] HAYES, Anthony J. - MELROSE, James. Glycans and glycosaminoglycans in neurobiology: key regulators of neuronal cell function and fate. In *BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2018, vol. 475, no., pp. 2511-2545., Registrované v: WOS*
2. [1.1] LANZI, Cinzia - CASSINELLI, Giuliana. Heparan Sulfate Mimetics in Cancer Therapy: The Challenge to Define Structural Determinants and the Relevance of Targets for Optimal Activity. In *MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 11, pp., Registrované v: WOS*
- ADCA608 RUDD, T.R. - YATES, E.A. - HRICOVÍNI, Miloš. Spectroscopic and Theoretical Approaches for the Determination of Heparin Saccharide Structure and the Study of Protein-Glycosaminoglycan Complexes in Solution. Miloš Hricovíni. In *Current Medicinal Chemistry, 2009, vol.16, pp.4750-4766. (2008: 4.823 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0929-8673.*
- Citácie:
1. [1.1] FARRELL, Nicholas P. - GORLE, Anil K. - PETERSON, Erica J. - BERNERS-PRICE, Susan J. Metalloglycomics. In *METALLO-DRUGS: DEVELOPMENT AND ACTION OF ANTICANCER AGENTS. ISSN 1559-0836, 2018, vol. 18, no., pp. 109-140., Registrované v: WOS*
- ADCA609 RUMBOLD, K. - BIELY, Peter - MASTIHUBOVÁ, Mária - GUDELJ, M. - GUBITZ, G. - ROBRA, K.-H. - PRIOR, B.A. Purification and properties of a feruloyl esterase involved in lignocellulose degradation by *Aureobasidium pullulans*. In *Applied and Environmental Microbiology, 2003, vol. 69, p. 5622-5626. (2002: 3.691 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0099-2240.*
- Citácie:
1. [1.1] CHENG, Feng - CHENG, Feifei - ZHENG, Jianyong - WU, Guanzhong - ZHANG, Yinjun - WANG, Zhao. A Novel esterase from *Pseudochrobactrum asaccharolyticum* WZZ003: Enzymatic properties toward model substrate and catalytic performance in chiral fungicide intermediate synthesis. In *PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 69, no., pp. 92-98., Registrované v: WOS*
2. [1.1] ZEPEDA-MENDOZA, Marie Lisandra - EDWARDS, Nathalia Kruse - MADSEN, Mikkel Gulmann - ABEL-KISTRUP, Martin - PUETZ, Lara - SICHERITZ-PONTEN, Thomas - SWIEGERS, Jan H. Influence of *Oenococcus oeni* and *Brettanomyces bruxellensis* on Wine Microbial Taxonomic and Functional Potential Profiles. In *AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE. ISSN 0002-9254, 2018, vol. 69, no. 4, pp. 321-333., Registrované v: WOS*

3. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. *Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview*. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
4. [1.2] ZHANG, Qiang - BAI, Yajun - CAI, Yajun - ZHENG, Xiaohui. *Cloning, expression and characterization of a new feruloyl esterases from the Lactobacillus Johnsonii strain*. In *Journal of Food Science and Biotechnology*. ISSN 16731689, 2018-01-01, 37, 11, pp. 1129-1134., Registrované v: SCOPUS
- ADCA610 RYABOVÁ, Oľena - VRŠANSKÁ, Mária - KANEKO, S. - VAN ZYL, W.H. - BIELY, Peter. A novel family of hemicellulolytic  $\alpha$ -glucuronidase. In *FEBS Letters*, 2009, vol. 583, p. 1457-1462. ISSN 1873-3468.
- Citácie:
1. [1.1] LI, Zongquan - PAN, Xuejun. *Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material*. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
2. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. *Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass*. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
3. [1.2] CEBALLOS, Ruben Michael. *Bioethanol and natural resources: Substrates, chemistry and engineered systems*. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
- ADCA611 RYCHLÁ, Lýdia - RYCHLÝ, Jozef - EBRINGEROVÁ, Anna - CSOMOROVÁ, Katarína - MALOVIKOVÁ, Anna. Chemiluminescence accompanying the oxidation of hemicelluloses. In *Polymer Degradation and Stability*, 2008, vol. 93, p. 1674 - 1680. (2007: 2.073 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0141-3910.
- Citácie:
1. [1.1] CHMIELEWSKA-SMIETANKO, D. - GRYCZKA, U. - MIGDAL, W. - KOPEC, K. *Electron beam for preservation of biodeteriorated cultural heritage paper based objects*. In *RADIATION PHYSICS AND CHEMISTRY*. ISSN 0969-806X, FEB 2018, vol. 143, SI, p. 89-93., Registrované v: WOS
- ADCA612 RYCHLÝ, Jozef - ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - SASINKOVÁ, Vlasta - KOGAN, Grigorij - GEMEINER, Peter. Unexplored capabilities of chemiluminescence and thermoanalytical methods in characterization of intact and degraded hyaluronans. In *Polymer Degradation and Stability*. - Oxford : Elsevier Science, 2006, vol. 91, p. 3174 - 3184. (2005: 1.749 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0141-3910.
- Citácie:
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA613 SADOVSKAYA, I. - VINOGRADOV, E. - FLAHAUT, S. - KOGAN, Grigorij - JABBOURI, S. Extracellular carbohydrate-containing polymers of a model biofilm-producing strain. *Staphylococcus epidermidis* RP62A. In *Infection and Immunity*, 2005, vol. 73, p. 3007-3017. ISSN 0019-9567.
- Citácie:
1. [1.1] FREITAS, Ana I. - LOPES, Nathalie - OLIVEIRA, Fernando - BRAS, Susana - FRANCA, Angela - VASCONCELOS, Carlos - VILANOVA, Manuel - CERCA, Nuno. *Comparative analysis between biofilm formation and gene expression in Staphylococcus epidermidis isolates*. In *FUTURE MICROBIOLOGY*. ISSN 1746-0913, 2018, vol. 13, no. 4, pp. 415-427., Registrované v: WOS
2. [1.1] PANDA, Sasmita - SINGH, Durg Vijai. *Biofilm Formation by ica-Negative Ocular Isolates of Staphylococcus haemolyticus*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS
3. [1.1] SANTOS, Simone S. - AUGUSTO, Danillo G. - CASAES ALVES, Patricia A. - PEREIRA, Julia S. - DUARTE, Larissa M. B. - MELO, Poliana C. - GROSS, Eduardo - KANETO, Carla M. - SILVA, Aline - SANTOS, Jane L. *Trichoderma asperelloides ethanolic extracts efficiently inhibit Staphylococcus growth and biofilm formation*. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
4. [1.1] SIMKINS, Jeffrey W. - STEWART, Philip S. - SEYMOUR, Joseph D. *Spatiotemporal mapping of oxygen in a microbially-impacted packed bed using F-19 Nuclear magnetic resonance oximetry*. In *JOURNAL OF MAGNETIC RESONANCE*. ISSN 1090-7807, 2018, vol. 293, no., pp.



- 123-133., Registrované v: WOS
5. [1.1] SUGIMOTO, Shinya - SATO, Fumiya - MIYAKAWA, Reina - CHIBA, Akio - ONODERA, Shoichi - HORI, Seiji - MIZUNOE, Yoshimitsu. Broad impact of extracellular DNA on biofilm formation by clinically isolated Methicillin-resistant and sensitive strains of *Staphylococcus aureus*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS
6. [1.1] SULTAN, Andi R. - SWIERSTRA, Jasper W. - LEMMENS-DEN TOOM, Nicole A. - SNIJEDERS, Susan - MANASKOVA, Silvie Hansenova - VERBON, Annelies - VAN WAMEL, Willem J. B. Production of Staphylococcal Complement Inhibitor (SCIN) and Other Immune Modulators during the Early Stages of *Staphylococcus aureus* Biofilm Formation in a Mammalian Cell Culture Medium. In *INFECTION AND IMMUNITY*. ISSN 0019-9567, 2018, vol. 86, no. 8, pp., Registrované v: WOS
7. [1.1] TAHA, Mariam - KOHNEN, Carissa - MALLYA, Shruti - KOU, Yuntong - ZAPATA, Adriana - RAMIREZ-ARCOS, Sandra. Comparative characterisation of the biofilm-production abilities of *Staphylococcus epidermidis* isolated from human skin and platelet concentrates. In *JOURNAL OF MEDICAL MICROBIOLOGY*. ISSN 0022-2615, 2018, vol. 67, no. 2, pp. 190-197., Registrované v: WOS
8. [1.1] ZHAO, Xingchen - LIU, Zonghui - LIU, Zuoqia - MENG, Rizeng - SHI, Ce - CHEN, Xiangrong - BU, Xiujuan - GUO, Na. Phenotype and RNA-seq-Based transcriptome profiling of *Staphylococcus aureus* biofilms in response to tea tree oil. In *MICROBIAL PATHOGENESIS*. ISSN 0882-4010, 2018, vol. 123, no., pp. 304-313., Registrované v: WOS
- ADCA614 SAHA, Sudipta - NOSÁĽOVÁ, Gabriela - GHOST, Debjani - FLEŠKOVÁ, Dana - CAPEK, Peter - RAY, Bimalendu. Structural features and in vivo antitussive activity of the water extracted polymer from *Glycyrrhiza glabra*. In *International Journal of Biological Macromolecules*, 2011, vol. 48, p. 634-638. (2010: 2.502 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] KUANG, Yi - LI, Bin - FAN, Jingran - QIAO, Xue - YE, Min. Antitussive and expectorant activities of licorice and its major compounds. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2018, vol. 26, no. 1, pp. 278-284., Registrované v: WOS
2. [1.1] SAADAT, Saeideh - SHAKERI, Farzaneh - BOSKABADY, Mohammad Hossein. Comparative Antitussive Effects of Medicinal Plants and Their Constituents. In *ALTERNATIVE THERAPIES IN HEALTH AND MEDICINE*. ISSN 1078-6791, 2018, vol. 24, no. 4, pp. 36-49., Registrované v: WOS
- ADCA615 SHAO, J. - ZHANG, J. - NAHÁLKA, Jozef - WANG, P.G. Biocatalytic synthesis of uridine 5'-diphosphate N-acetylglucosamine by multiple enzymes co-immobilized on agarose beads. In *Chemical Communication*, 2002, vol. 2002, p. 2586-2587. ISSN 1359-7345.
- Citácie:
1. [1.1] MAHOUR, Reza - KLAPPROTH, Jan - REXER, Thomas F. T. - SCHILDBACH, Anna - KLAMT, Steffen - PIETZSCH, Markus - RAPP, Erdmann - REICHL, Udo. Establishment of a five-enzyme cell-free cascade for the synthesis of uridine diphosphate N-acetylglucosamine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2018, vol. 283, no., pp. 120-129., Registrované v: WOS
- ADCA616 SHARECK, F. - BIELY, Peter - MOROSOLI, R. - KLUEPFEL, D. Analysis of DNA flanking the xlnB locus of *Streptomyces lividans* reveals genes encoding acetyl xylan esterase and the RNA component of ribonuclease P. In *Gene*, 1995, vol. 153, p. 105-109. (1995 - Current Contents). ISSN 0378-1119.
- Citácie:
1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
- ADCA617 SHIPP, M. - NADELLA, R. - GAO, H. - FARKAŠ, Vladimír - SIGRIST, H. - FAIK, A. Glyco-array technology for efficient monitoring of plant cell wall glycosyltransferase activities. In *Glycoconjugate journal*, 2008, vol. 25, p. 49-58. (2008 - Current Contents). ISSN 0282-0080.
- Citácie:
1. [1.1] MAJDA, Mateusz - ROBERT, Stephanie. The Role of Auxin in Cell Wall Expansion. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS
2. [1.2] RIBEIRO, Diana O. - PINHEIRO, Benedita A. - CARVALHO, Ana Luísa - PALMA, Angelina S. Targeting protein-carbohydrate interactions in plant cell-wall biodegradation: The power of carbohydrate microarrays. In *Carbohydrate Chemistry*. ISSN 2041353X, 2018-01-01, 43, pp. 159-176., Registrované v: SCOPUS
- ADCA618 SHIRKOV, Leonid - SLÁDEK, Vladimír. Benchmark CCSD-SAPT study of rare gas dimers with comparison to MP-SAPT and DFT-SAPT. In *Journal of Chemical Physics*, 2017, vol. 147, article

number 174103. (2016: 2.965 - IF, Q2 - JCR, 1.486 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0021-9606.

Citácie:

1. [1.1] FEDOROV, Dmitry - SADHUKHAN, Mainak - STOEHR, Martin - TKATCHENKO, Alexandre. *Quantum-Mechanical Relation between Atomic Dipole Polarizability and the van der Waals Radius*. In *PHYSICAL REVIEW LETTERS*. ISSN 0031-9007, 2018, vol. 121, no. 18, pp., Registrované v: WOS

ADCA619

SHLEEV, S. - TKÁČ, Ján - CHRISTENSON, A. - BUZGAS, T. - YAROPOLOV, A.I. - WHITTAKER, J.W. - GORTON, L. Direct electron transfer between copper-containing proteins and electrodes. In *Biosensors and Bioelectronics*, 2005, vol. 20, p. 2517-2554.

Citácie:

1. [1.1] ALBRECHT, T. - HORSWELL, S. - ALLERSTON, L. K. - REES, N. V. - RODRIGUEZ, P. *Electrochemical processes at the nanoscale*. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 7, no., pp. 138-145., Registrované v: WOS

2. [1.1] ALLERSTON, Laura K. - REES, Neil V. *Nanoparticle impacts in innovative electrochemistry*. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 10, no., pp. 31-36., Registrované v: WOS

3. [1.1] BHARATI, SL - CHAURASIA, PK. *Research Advancements in Pharmaceutical, Nutritional, and Industrial Enzymology*. In *RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY*. ISSN 2327-9354, 2018, vol., no., pp. 1-549., Registrované v: WOS

4. [1.1] CAETANO, F. R. - CARNEIRO, E. A. - AGUSTINI, D. - FIGUEIREDO-FILHO, L. C. S. - BANKS, C. E. - BERGAMINI, M. F. - MARCOLINO-JUNIOR, L. H. *Combination of electrochemical biosensor and textile threads: A microfluidic device for phenol determination in tap water*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 99, no., pp. 382-388., Registrované v: WOS

5. [1.1] CHUMILLAS, Sara - MAESTRO, Beatriz - FELIU, Juan M. - CLIMENT, Victor. *Comprehensive Study of the Enzymatic Catalysis of the Electrochemical Oxygen Reduction Reaction (ORR) by Immobilized Copper Efflux Oxidase (CueO) From Escherichia coli*. In *FRONTIERS IN CHEMISTRY*. ISSN 2296-2646, 2018, vol. 6, no., pp., Registrované v: WOS

6. [1.1] FLEXER, Victoria - BRUN, Nicolas. *Fundamentals of Enzymatic Electrochemical Systems*. In *FUNCTIONAL ELECTRODES FOR ENZYMATIC AND MICROBIAL ELECTROCHEMICAL SYSTEMS*, 2018, vol., no., pp. 3-50., Registrované v: WOS

7. [1.1] FOROOTANFAR, Hamid - ARJMAND, Shokouh - BEHZADI, Mina - FARAMARZI, Mohammad Ali. *Laccase-Mediated Treatment of Pharmaceutical Wastes*. In *RESEARCH ADVANCEMENTS IN PHARMACEUTICAL, NUTRITIONAL, AND INDUSTRIAL ENZYMOLOGY*. ISSN 2327-9354, 2018, vol., no., pp. 213-252., Registrované v: WOS

8. [1.1] GHOLAMI, Fereshhte - NAVAEE, Aso - SALIMI, Abdollah - AHMADI, Rezgar - KORANI, Azam - HALLAJ, Rahman. *Direct Enzymatic Glucose/O<sub>2</sub> Biofuel Cell based on Poly-Thiophene Carboxylic Acid alongside Gold Nanostructures Substrates Derived through Bipolar Electrochemistry*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS

9. [1.1] HOSHIKAWA, Yasuto - CASTRO-MUNIZ, Alberto - TAWATA, Hanako - NOZAKI, Kouichi - YAMANE, Shohei - ITOH, Tetsuji - KYOTANI, Takashi. *Orientation Control of Trametes Laccases on a Carbon Electrode Surface to Understand the Orientation Effect on the Electrocatalytic Activity*. In *BIOCONJUGATE CHEMISTRY*. ISSN 1043-1802, 2018, vol. 29, no. 9, pp. 2927-2935., Registrované v: WOS

10. [1.1] HU, Jinyuan - LU, Kun - DONG, Shipeng - HUANG, Jingguo - MAO, Liang. *Inactivation of Laccase by the Attack of As (III) Reaction in Water*. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2018, vol. 52, no. 5, pp. 2945-2952., Registrované v: WOS

11. [1.1] MAJDECKA, Dominika - DRAMINSKA, Sylwia - JANUSEK, Dariusz - KRYSINSKI, Pawel - BILEWICZ, Renata. *A self-powered biosensing device with an integrated hybrid biofuel cell for intermittent monitoring of analytes*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 102, no., pp. 383-388., Registrované v: WOS

12. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. *O<sub>2</sub> Reduction in Enzymatic Biofuel Cells*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS

13. [1.1] MUKHOPADHYAY, Bishnu Prasad. *Recognition dynamics of trinuclear copper cluster and associated histidine residues through conserved or semi-conserved water molecules in human Ceruloplasmin: The involvement of aspartic and glutamic acid gates*. In *JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS*. ISSN 0739-1102, 2018, vol. 36, no. 14, pp. 3829-3842., Registrované v: WOS

14. [1.1] PEREIRA, Andressa R. - SEDENHO, Graziela C. - DE SOUZA, Joao C. P. - CRESPILO, Frank N. *Advances in enzyme bioelectrochemistry. In ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS.* ISSN 0001-3765, 2018, vol. 90, no. 1, pp. 825-857., Registrované v: WOS
15. [1.1] QUIJADA-MORIN, N. - GARCIA, F. - LAMBERT, K. - WALKER, A-S. - TIERS, L. - VIAUD, M. - SAUVAGE, F-X. - HIRTZ, C. - SAUCIER, C. *Strain effect on extracellular laccase activities from Botrytis cinerea. In AUSTRALIAN JOURNAL OF GRAPE AND WINE RESEARCH.* ISSN 1322-7130, 2018, vol. 24, no. 2, pp. 241-251., Registrované v: WOS
16. [1.1] SEK, Jakub P. - KASPRZAK, Artur - BYSTRZEJEWSKI, Michal - POPLAWSKA, Magdalena - KASZUWARA, Waldemar - STOJEK, Zbigniew - NOWICKA, Anna M. *Nanoconjugates of ferrocene and carbon-encapsulated iron nanoparticles as sensing platforms for voltammetric determination of ceruloplasmin in blood. In BIOSENSORS & BIOELECTRONICS.* ISSN 0956-5663, 2018, vol. 102, no., pp. 490-496., Registrované v: WOS
17. [1.1] TAO, Lizhi - SIMONOV, Alexandr N. - ROMANO, Christine A. - BUTTERFIELD, Cristina N. - TEBO, Bradley M. - BOND, Alan M. - SPICCIA, Leone - MARTIN, Lisandra L. - CASEY, William H. *Probing Electron Transfer in the Manganese-Oxide-Forming MnxEFG Protein Complex using Fourier Transformed AC Voltammetry: Understanding the Oxidative Priming Effect. In CHEMELECTROCHEM.* ISSN 2196-0216, 2018, vol. 5, no. 6, pp. 872-876., Registrované v: WOS
18. [1.1] TOMINAGA, Masato - TSUTSUI, Motofumi - TAKATORI, Takuya. *Cholate Adsorption Behavior at Carbon Electrode Interface and Its Promotional Effect in Laccase Direct Bioelectrocatalysis. In COLLOIDS AND INTERFACES.* ISSN 2504-5377, 2018, vol. 2, no. 3, pp., Registrované v: WOS
19. [1.1] WANG, Qiyu - ZHANG, Zhian - WANG, Mengran - LIU, Fangyang - JIANG, Liangxing - HONG, Bo - LI, Jie - LAI, Yanqing. *Bioinspired fiber-like porous Cu/N/C electrocatalyst facilitating electron transportation toward oxygen reaction for metal-air batteries. In NANOSCALE.* ISSN 2040-3364, 2018, vol. 10, no. 33, pp. 15819-15825., Registrované v: WOS
20. [1.1] WERNERT, Veronique - LEBOUIN, Chrystelle - BENOIT, Virginie - GADIOU, Roger - DE POULPIQUET, Anne - LOJOU, Elisabeth - DENOYEL, Renaud. *Direct electron transfer of bilirubin oxidase at a carbon flow-through electrode. In ELECTROCHIMICA ACTA.* ISSN 0013-4686, 2018, vol. 283, no., pp. 88-96., Registrované v: WOS
21. [1.1] XIE, Yuxin - DENG, Li - ZHANG, Yanfang - QIN, Xin - HU, Caihong - LI, Li - LI, Ping - CHEN, Xiaohua. *Carbon nanotube promoting hydride transfer from glucose to flavin via a pi-pi-driven proton-coupled double-electron transfer mechanism. In JOURNAL OF POWER SOURCES.* ISSN 0378-7753, 2018, vol. 399, no., pp. 436-442., Registrované v: WOS
22. [1.1] YANG, Hankun - XIAO, Jingyu - SHI, Junpeng - SHU, Tong - SU, Lei - LU, Qingye - ZHANG, Xueji. *A dual-cell device designed as an oxidase mimic and its use for the study of oxidase-like nanozymes. In CHEMICAL COMMUNICATIONS.* ISSN 1359-7345, 2018, vol. 54, no. 7, pp. 818-820., Registrované v: WOS
23. [1.1] YARMAN, Aysu. *Development of a molecularly imprinted polymer-based electrochemical sensor for tyrosinase. In TURKISH JOURNAL OF CHEMISTRY.* ISSN 1300-0527, 2018, vol. 42, no. 2, pp. 346-354., Registrované v: WOS
24. [1.1] YARMAN, Aysu. *Electrosynthesized Molecularly Imprinted Polymer for Laccase Using the Inactivated Enzyme as the Target. In BULLETIN OF THE KOREAN CHEMICAL SOCIETY.* ISSN 1229-5949, 2018, vol. 39, no. 4, pp. 483-488., Registrované v: WOS
25. [1.1] YASUEDA, Kengo - HORIBA, Tatsuo - YASUJIMA, Reiho - KOMABA, Shinichi. *Effect of Binary Hydrophilic Binders of SBR Latex and Water-Soluble Polymer on Gas-Diffusion Biocathode Performance. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY.* ISSN 0013-4651, 2018, vol. 165, no. 16, pp. F1369-F1375., Registrované v: WOS
26. [1.1] ZHOU, Yan - SZARO, Nicholas A. - ATALAH, Joaquin - ESPINA, Giannina - BLAMEY, Jenny M. - RAMASAMY, Ramaraja P. *Electro-Kinetic Study of Oxygen Reduction Reaction Catalyzed by Thermophilic Laccase. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY.* ISSN 0013-4651, 2018, vol. 165, no. 10, pp. H652-H657., Registrované v: WOS
27. [1.2] MANJUNATHA, P. - ARTHOBA NAYAKA, Y. - CHETHANA, B. K. - VIDYASAGAR, C. C. - YATHISHA, R. O. *Development of multi-walled carbon nanotubes modified pencil graphite electrode for the electrochemical investigation of aceclofenac present in pharmaceutical and biological samples. In Sensing and Bio-Sensing Research,* 2018-02-01, 17, pp. 7-17., Registrované v: SCOPUS

ADCA620

SCHEINKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - TRELOVÁ, Dušana - LACÍK, Igor - CHORVÁT, Dušan Jr. - AČAI, Pavel - POLAKOVIČ, Milan - LIPTÁK, Lukáš - REBROŠ, Martin - ROSENBERG, Michal - ŠTEFUCA, Vladimír - NEDĚLA, Vilém - TIHLARÍKOVÁ, Eva. *Physical and bioengineering properties of polyvinyl alcohol lens-shaped particles versus spherical polyelectrolyte complex microcapsules as immobilisation matrices for a*



whole-cell Baeyer-Villiger monooxygenase. In *Applied Biochemistry and Biotechnology*, 2014, vol. 174, p. 1834-1849. (2013: 1.687 - IF, 0.744 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0273-2289.

Citácie:

1. [1.1] KECSKEMETI, A. - GASPAR, A. *Particle-based immobilized enzymatic reactors in microfluidic chips*. In *TALANTA*. ISSN 0039-9140, APR 1 2018, vol. 180, p. 211-228.,

Registrované v: WOS

ADCA621

SCHENKMAYEROVÁ, Andrea - BERTÓKOVÁ, Anikó, Illéssová - ŠEFČOVIČOVÁ, Jana, Blahutová - ŠTEFUCA, Vladimír - BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - GEMEINER, Peter - TKÁČ, Ján - KATRLÍK, Jaroslav. Whole-cell *Gluconobacter oxydans* biosensor for 2-phenylethanol biooxidation monitoring. In *Analytica Chimica Acta*, 2015, vol. 854, p. 140-144. (2014: 4.513 - IF, Q1 - JCR, 1.542 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0003-2670.

Citácie:

1. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGMORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. *Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell*. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS

ADCA622

SCHMITZOVÁ, J. - KLAUDINY, Jaroslav - ALBERT, S. - SCHRODER, W. - SCHRECKENGOST W. - HANES, Jozef - JÚDOVÁ, J. - ŠIMÚTH, Jozef. A family of major royal jelly proteins of the honeybee *Apis mellifera* L. In *Cellular and Molecular Life Sciences : (CMLS)*, 1998, vol. 54, p.1020-1030. ISSN 1420-682X.

Citácie:

1. [1.1] BILAL, Bushra - AZIM, M. Kamran. *Nematicidal activity of 'major royal jelly protein' containing glycoproteins from Acacia honey*. In *EXPERIMENTAL PARASITOLOGY*. ISSN 0014-4894, 2018, vol. 192, no., pp. 52-59., Registrované v: WOS

2. [1.1] BORUTINSKAITE, Veronika - TREIGYTE, Grazina - CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. *Proteomic identification and enzymatic activity of buckwheat (*Fagopyrum esculentum*) honey based on different assays*. In *JOURNAL OF FOOD AND NUTRITION RESEARCH*. ISSN 1336-8672, 2018, vol. 57, no. 1, pp. 57-69., Registrované v: WOS

3. [1.1] CHEN, Xi'en - CAO, Yanghui - ZHAN, Shuai - ZHANG, Yong - TAN, Anjiang - HUANG, Yongping. *Identification of yellow gene family in *Agrotis ipsilon* and functional analysis of Aiyellow-y by CRISPR/Cas9*. In *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY*. ISSN 0965-1748, 2018, vol. 94, no., pp. 1-9., Registrované v: WOS

4. [1.1] JIANG, Chen-min - LIU, Xin - LI, Chun-xue - QIAN, Hao-cheng - CHEN, Di - LAI, Chao-qiang - SHEN, Li-rong. *Anti-senescence effect and molecular mechanism of the major royal jelly proteins on human embryonic lung fibroblast (HFL-I) cell line*. In *JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B*. ISSN 1673-1581, 2018, vol. 19, no. 12, pp. 960-972., Registrované v: WOS

5. [1.1] JOE, Taeri - JEONG, Eunbee - YOO, Gaeun - AHN, Sejin - RHEE, Hae-ik - LEE, Deug-Chan. *The monoclonal antibody for discrimination of natural honey against artificial honey*. In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, 2018, vol. 6, no. 8, pp. 2350-2354., Registrované v: WOS

6. [1.1] MALESZKA, Ryszard. *Beyond Royalactin and a master inducer explanation of phenotypic plasticity in honey bees*. In *COMMUNICATIONS BIOLOGY*, 2018, vol. 1, no., pp., Registrované v: WOS

7. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. *The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract*. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS

8. [1.1] OSTROVERKHOVA, N. V. - KUCHER, A. N. - BABUSHKINA, N. P. - KONUSOVA, O. L. *Sequence of the mrjp3 Microsatellite Locus in Honeybees of Different Origin*. In *RUSSIAN JOURNAL OF GENETICS*. ISSN 1022-7954, 2018, vol. 54, no. 3, pp. 322-327., Registrované v: WOS

9. [1.1] OSTROVERKHOVA, Nadezhda - KUCHER, Aksana N. - BABUSHKINA, Nadezhda P. - KONUSOVA, Olga L. - SHARAKHOV, Igor. *Variability and Structure of the Repetitive Region of the Major Royal Jelly Protein Gene mrjp3 in Honeybee *Apis mellifera* of Different Evolutionary Branches*. In *JOURNAL OF MOLECULAR BIOLOGY RESEARCH*, 2018, vol. 8, no. 1, pp. 122-131., Registrované v: WOS

10. [1.1] PEI, Jimin - KINCH, Lisa N. - GRISHIN, Nick V. *FlyXCDB-A Resource for *Drosophila* Cell Surface and Secreted Proteins and Their Extracellular Domains*. In *JOURNAL OF MOLECULAR BIOLOGY*. ISSN 0022-2836, 2018, vol. 430, no. 18, pp. 3353-3411., Registrované

v: WOS

11. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
12. [1.1] STEVENS, Aaron J. - RUCKLIDGE, Julia J. - KENNEDY, Martin A. Epigenetics, nutrition and mental health. Is there a relationship? In *NUTRITIONAL NEUROSCIENCE*. ISSN 1028-415X, 2018, vol. 21, no. 9, pp. 602-613., Registrované v: WOS
13. [1.1] SUENAMI, Shota - OYA, Satoyo - KOHNO, Hiroki - KUBO, Takeo. Kenyon Cell Subtypes/Populations in the Honeybee Mushroom Bodies: Possible Function Based on Their Gene Expression Profiles, Differentiation, Possible Evolution, and Application of Genome Editing. In *FRONTIERS IN PSYCHOLOGY*. ISSN 1664-1078, 2018, vol. 9, no., pp., Registrované v: WOS
14. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
15. [1.1] WINKLER, Paul - SIEG, Frank - BUTTSTEDT, Anja. Transcriptional Control of Honey Bee (*Apis mellifera*) Major Royal Jelly Proteins by 20-Hydroxyecdysone. In *INSECTS*. ISSN 2075-4450, 2018, vol. 9, no. 3, pp., Registrované v: WOS
16. [1.2] ALU';DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAI DAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In *Anticancer plants: Properties and Application*, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
17. [3.1] Ostroverkhova, N.V.; Kucher, A.N.; Babushkina, N.P.; Konusova, O.L. Sequence of the Microsatellite Locus mrjp3 in Honeybees of Different Origin. In: *Russian Journal of Genetics Vol. 54* (2018), p. 322-327
18. [3.2] Brandorf, A.Z.; Ivoilova, M.M. The influence of environmental factors on the quality standards of royal jelly *Apis mellifera* L. In: *Agrarnaya nauka Evro-Severo-Vostoka*, 2018, Issue: 1, p. 19-26, ISSN 2072-9081., Registrované v: Russian Science Citation Index

ADCA623

SCHNITZHOFFER, W. - WEBER, H.-J. - VRŠANSKÁ, Mária - BIELY, Peter - CAVACO-PAULO, A. - GUEBITZ, G.M. Purification and mechanistic characterisation of two polygalacturonases from *Sclerotium rolfsii*. In *Enzyme and Microbial Technology*, 2007, vol. 40, p. 1739-1747. (2006: 1.897 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] TU, Tao - LI, Yeqing - LUO, Yan - WANG, Zhenxing - WANG, Yuan - LUO, Huiying - YAO, Bin. A key residue for the substrate affinity enhancement of a thermophilic endo-polygalacturonase revealed by computational design. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 10, pp. 4457-4466., Registrované v: WOS
2. [1.1] XUE, Cai Yun - ZHOU, Ru Jun - LI, Yuan Jie - XIAO, Di - FU, Jun Fan. Cell-wall-degrading enzymes produced in vitro and in vivo by *Rhizoctonia solani*, the causative fungus of peanut sheath blight. In *PEERJ*. ISSN 2167-8359, 2018, vol. 6, no., pp., Registrované v: WOS
3. [1.1] YU, Ping - XU, Chaochao. Production optimization, purification and characterization of a heat-tolerant acidic pectinase from *Bacillus* sp ZJ1407. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 972-980., Registrované v: WOS

ADCA624

SCHNOES, H.K. - BIEMANN, K. - MOKRÝ, J. - KOMPIŠ, I. - CHATTERJEE, A. Strictamine. In *Journal of Organic Chemistry*, 1966, vol. 31, p. 1641-1642. ISSN 0022-3263.

Citácie:

1. [1.1] CHEN ZHITAO - XIAO TAO - SONG HAO - QIN YONG. Asymmetric Synthesis of the Tetracyclic Skeleton of Natural Product Arborisidine. In *CHINESE JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0253-2786, 2018, vol. 38, no. 9, pp. 2427-2434., Registrované v: WOS
2. [1.1] CHEN, Zhi-Tao - XIAO, Tao - TANG, Pei - ZHANG, Dan - QIN, Yong. Total synthesis of akuammiline alkaloid (+)-strictamine. In *TETRAHEDRON*. ISSN 0040-4020, 2018, vol. 74, no. 11, pp. 1129-1134., Registrované v: WOS
3. [1.1] GAN, Pei - PITZEN, Jennifer - QU, Pei - SNYDER, Scott A. Total Synthesis of the Caged Indole Alkaloid Arboridinine Enabled by aza-Prins and Metal-Mediated Cyclizations. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*. ISSN 0002-7863, 2018, vol. 140, no. 3, pp. 919-925., Registrované v: WOS
4. [1.1] HAMDANI, S. - AL-AS';ARI, M. - SATRIANI, A. R. - HADI, S. Alkaloids from Pulai



(*Alstonia scholaris* (L.) R. Br.) Leaves of Lombok Island on the Basis of GC-MS Analysis. In PROCEEDINGS OF THE 3RD INTERNATIONAL SYMPOSIUM ON CURRENT PROGRESS IN MATHEMATICS AND SCIENCES 2017 (ISCPMS2017). ISSN 0094-243X, 2018, vol. 2023, no., pp., Registrované v: WOS

5. [1.1] LIU, Xiaoyu - XIAO, Tao - QINL, Yong. Total Synthesis of the Akuammiline Alkaloid Strictamine. In PROGRESS IN CHEMISTRY. ISSN 1005-281X, 2018, vol. 30, no. 5, pp. 578-585., Registrované v: WOS

6. [1.1] PICAZO, Elias - MORRILL, Lucas A. - SUSICK, Robert B. - MORENO, Jesus - SMITH, Joel M. - GARG, Neil K. Enantioselective Total Syntheses of Methanoquinolizidine-Containing Akuammiline Alkaloids and Related Studies. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2018, vol. 140, no. 20, pp. 6483-6492., Registrované v: WOS

7. [1.1] SATO, Keigo - TAKANASHI, Noriyuki - KOGURE, Noriyuki - KITAJIMA, Mariko - TAKAYAMA, Hiromitsu. FORMAL TOTAL SYNTHESIS OF (+/-)-STRICTAMINE. In HETEROCYCLES. ISSN 0385-5414, 2018, vol. 97, no. 1, pp. 365-382., Registrované v: WOS

8. [1.1] WANG, Chao - ZHANG, Shiju - WANG, Yan - HUANG, Sha-Hua - HONG, Ran. Total synthesis of strictamine: a tutorial for novel and efficient synthesis. In ORGANIC CHEMISTRY FRONTIERS. ISSN 2052-4129, 2018, vol. 5, no. 3, pp. 447-452., Registrované v: WOS

9. [1.1] XIE, Xiaoni - ZU, Liansuo. Skeletal Rearrangements as Strategies for the Total Syntheses of Indole Alkaloids. In SYNLETT. ISSN 0936-5214, 2018, vol. 29, no. 8, pp. 1008-1013., Registrované v: WOS

ADCA625 SCHWIKAL, K. - HEINZE, T. - EBRINGEROVÁ, Anna - PETZOLD, K. Cationic xylan derivatives with high degree of functionalization. In Macromolecular Symposia, 2006, vol. 232, p. 49-56. (2005: 0.913 - IF). ISSN 1022-1360.

Citácie:

1. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS

2. [1.1] GAO, Hui - RAO, Jun - GUAN, Ying - LI, Wen-qi - ZHANG, Mao-chao - SHU, Ting - LV, Zi-wen. Investigation of the Thermo-Mechanical Properties of Blend Films Based on Hemicelluloses and Cellulose. In INTERNATIONAL JOURNAL OF POLYMER SCIENCE. ISSN 1687-9422, 2018, vol., no., pp., Registrované v: WOS

3. [1.1] KONG, Weiqing - DAI, Qingqing - GAO, Cundian - REN, Junli - LIU, Chuanfu - SUN, Runcang. Hemicellulose-Based Hydrogels and Their Potential Application. In POLYMER GELS: SCIENCE AND FUNDAMENTALS. ISSN 2367-0061, 2018, vol., no., pp. 87-127., Registrované v: WOS

4. [1.1] VUOTI, Sauli - NARASIMHA, Kumar - REINIKAINEN, Kai. Green wastewater treatment flocculants and fixatives prepared from cellulose using high-consistency processing and deep eutectic solvents. In JOURNAL OF WATER PROCESS ENGINEERING. ISSN 2214-7144, 2018, vol. 26, no., pp. 83-91., Registrované v: WOS

5. [1.1] WAN, Xiao-Fang - LIU, Meng-Zhen - YU, Teng - CHAI, Xin-Sheng - LI, You-Ming - LIN, Ke - CHEN, Guang-Xue. Hydrolysis kinetics of epoxypropyltrimethylammonium chloride in ethanol/water solution system. In CHEMICAL ENGINEERING RESEARCH & DESIGN. ISSN 0263-8762, 2018, vol. 136, no., pp. 41-47., Registrované v: WOS

ADCA626 SIHELŇÍKOVÁ, Lucie - KOZMON, Stanislav - TVAROŠKA, Igor. DFT and docking study of potential transition state analogue inhibitors of glycosyltransferases. In Collection of Czechoslovak Chemical Communications, 2008, vol. 73, p. 591-607. (2007: 0.879 - IF). ISSN 0010-0765.

Citácie:

1. [1.2] VIDEIRA, Paula Alexandra - MARCELO, Filipa - GREWAL, Ravneet Kaur. Glycosyltransferase inhibitors: A promising strategy to pave a path from laboratory to therapy. In Carbohydrate Chemistry. ISSN 2041353X, 2018-01-01, 43, pp. 135-158., Registrované v: SCOPUS

ADCA627 SINGH, S. - REDDY, P. - HAARHOFF, J. - BIELY, Peter - JANSE, B. - PILLAY, B. - PILLAY, D. - PRIOR, B.A. Relatedness of Thermomyces lanuginosus strains producing a thermostable xylanase. In Journal of Biotechnology, 2000, vol. 81, p. 119-128. ISSN 0168-1656.

Citácie:

1. [1.1] KUMAR, Vishal - SHUKLA, Pratyosh. Extracellular xylanase production from *T. lanuginosus* VAPS24 at pilot scale and thermostability enhancement by immobilization. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2018, vol. 71, no., pp. 53-60., Registrované v: WOS

2. [1.1] Liao, Ziya; Guo, Xiaomeng; Wang, Haisheng; Yan, Yanchun; Li, Jun; Zhao, Baisuo. Carbon source optimization and characterization of a xylanase from *Alkalitalea saponilacus* SC/BZ-SP2(T). In: Weishengwu Xuebao Vol. 58 (2018), Issue: 9, p. 1625-1636, Registrované v: WOS

- ADCA628 SLÁDEK, Vladimír - HOLKA, Filip - TVAROŠKA, Igor. Ab initio modelling of the anomeric and exo anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane corrected for intramolecular BSSE. In *Physical Chemistry Chemical Physics*, 2015, vol. 17, p. 18501-18513. (2014: 4.493 - IF, Q1 - JCR, 1.772 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1463-9076.  
Citácie:  
1. [1.1] *Lomas, JS (Lomas, John S.). Intramolecular O?HO and C?HO hydrogen bond cooperativity in D-glucopyranose and D-galactopyranoseA DFT/GIAO, QTAIM/IQA, and NCI approach. In: MAGNETIC RESONANCE IN CHEMISTRY Vol. 56 (2018), Issue: 8, p. 748-766, Registrované v: WOS*
- ADCA629 SLÁDEK, Vladimír - ŠKORŇA, Peter - POLIAK, Peter - LUKEŠ, Vladimír. The ab initio study of halogen and hydrogen  $\sigma$ N-bonded para-substituted pyridine $\cdots$ (X2/XY/HX) complexes. In *Chemical Physics Letters*, 2015, vol. 619, p. 7-13. (2014: 1.897 - IF, Q2 - JCR, 0.757 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0009-2614.  
Citácie:  
1. [1.1] *SHEN, Dan - SU, Peifeng - WU, Wei. What kind of neutral halogen bonds can be modulated by solvent effects? In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2018, vol. 20, no. 41, pp. 26126-26139., Registrované v: WOS*
- ADCA630 SLÁDEK, Vladimír - TVAROŠKA, Igor. First-principles interaction analysis assessment of manganese cation in the catalytic activity of glycosyltransferases. In *Journal of Physical Chemistry B*, 2017, vol. 121, p. 6148-6162. (2016: 3.177 - IF, Q2 - JCR, 1.345 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1520-6106.  
Citácie:  
1. [1.1] *DOROKHOV, Valentin S. - GOLOVANOV, Ivan S. - TARTAKOVSKY, Vladimir A. - SUKHORUKOV, Alexey Yu. - IOFFE, Sema L. Diastereoselective synthesis and profiling of bicyclic imidazolidinone derivatives bearing a difluoromethylated catechol unit as potent phosphodiesterase 4 inhibitors. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2018, vol. 16, no. 38, pp., Registrované v: WOS*  
2. [1.1] *LIMA NETO, Jose X. - SOARES-RACHETTI, Vanessa P. - ALBUQUERQUE, Eudenilson L. - MANZONI, Vinicius - FULCO, Umberto L. Outlining migrainous through dihydroergotamine-serotonin receptor interactions using quantum biochemistry. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2018, vol. 42, no. 4, pp. 2401-2412., Registrované v: WOS*
- ADCA631 SLÁDEK, Vladimír - KOŇA, Juraj - TOKIWA, Hiroaki. In silico analysis of interaction pattern switching in ligand...receptor binding in Golgi alfa-mannosidase II induced by the protonated states of inhibitors. In *Physical Chemistry Chemical Physics*, 2017, vol. 19, p. 12527-12537. (2016: 4.123 - IF, Q1 - JCR, 1.685 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1463-9076.  
Citácie:  
1. [1.1] *LIMA NETO, Jose X. - SOARES-RACHETTI, Vanessa P. - ALBUQUERQUE, Eudenilson L. - MANZONI, Vinicius - FULCO, Umberto L. Outlining migrainous through dihydroergotamine-serotonin receptor interactions using quantum biochemistry. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2018, vol. 42, no. 4, pp. 2401-2412., Registrované v: WOS*
- ADCA632 SLÁDEK, Vladimír\*\*. A note on the interpretation of the efficiency centrality. In *Communications in Nonlinear Science and Numerical Simulation*, 2018, vol. 61, p. 225-229. (2017: 3.181 - IF, Q1 - JCR, 1.372 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1007-5704.  
Citácie:  
1. [1.1] *ZHANG, Hui - SHI, Baiying - YU, Xiaohua - LI, Meiling - SONG, Shuguang - ZHAO, Quanman - YAO, Xiangming - WANG, Wei. Finding influential nodes in bus networks. In INTERNATIONAL JOURNAL OF MODERN PHYSICS B. ISSN 0217-9792, 2018, vol. 32, no. 28, pp., Registrované v: WOS*
- ADCA633 SLAMEŇOVÁ, Darina - LÁBAJ, Juraj - KRIŽKOVÁ, L. - KOGAN, Grigorij - ŠANDULA, Jozef - BRESEN, Nikolaus - ECKL, Peter. Protective effects of fungal (1 - 3)-beta-D-glucan derivatives against oxidative DNA lesions in V79 hamster lung cells. In *Cancer Letters*. - Elsevier Science Ireland, 2003, vol. 198, no. 2, p. 153-160. ISSN 0304-3835.  
Citácie:  
1. [1.1] *APROTOSOAIE, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS*  
2. [1.1] *FORTIN, Olivier - AGUILAR-USCANGA, Blanca - KHANH DANG VU - SALMIERI, Stephane - LACROIX, Monique. Cancer Chemopreventive, Antiproliferative, and Superoxide Anion Scavenging Properties of *Kluyveromyces marxianus* and *Saccharomyces cerevisiae* var. *boulardii* Cell Wall Components. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2018, vol. 70, no. 1, pp. 83-96., Registrované v: WOS*  
3. [1.1] *PITKANEN, Leena - HEINONEN, Marina - MIKKONEN, Kirsi S. Safety considerations of*

- plant polysaccharides for food use: a case study on phenolic-rich softwood galactoglucomannan extract. In FOOD & FUNCTION. ISSN 2042-6496, 2018, vol. 9, no. 4, pp. 1931-1943., Registrované v: WOS*
4. [1.2] MA, Lu - CHEN, Yuan Cai - XIONG, Ming Zhou - WANG, Xu De - ZHANG, Yu Meng - ZHAO, Yu Qing. Research progress on antitumor effect and mechanism of carboxymethyl-glucan. In Chinese Traditional and Herbal Drugs. ISSN 02532670, 2018-06-12, 49, 11, pp. 2692-2697., Registrované v: SCOPUS
- ADCA634 SLAMEŇOVÁ, Darina - HORVÁTHOVÁ, Eva - KOŠÍKOVÁ, Božena - RUZEKOVÁ, L. - LÁBAJ, Juraj. Detection of lignin biopolymer- and vitamin E-stimulated reduction of DNA strand breaks in H2O2- and MNNG-treated mammalian cells by the comet assay. In Nutrition and Cancer, 1999, vol. 33, no. 1, p. 88-94. ISSN 0163-5581.  
Citácie:  
1. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205., Registrované v: SCOPUS
- ADCA635 SLANINOVÁ, I. - ŠESTÁK, Sergej - SVOBODA, A. - FARKAŠ, Vladimír. Cell wall and cytoskeleton reorganization as the response to hyperosmotic shock in Saccharomyces cerevisiae. In Archives of Microbiology, 2000, vol. 173, p. 245-252. ISSN 0302-8933.  
Citácie:  
1. [1.1] JIA, Xiaodong - ZHANG, Xi - HU, Yingsong - HU, Mandong - TIAN, Shuguang - HAN, Xuelin - SUN, Yansong - HAN, Li. Role of actin depolymerizing factor cofilin in Aspergillus fumigatus oxidative stress response and pathogenesis. In CURRENT GENETICS. ISSN 0172-8083, 2018, vol. 64, no. 3, pp. 619-634., Registrované v: WOS  
2. [1.1] VALLAKHMETOV, A. Ya - SHEPELYAKOVSKAYA, A. O. The effects of glucose and sorbitol on pore formation in the plasma membrane of the saccharomyces cerevisiae yeast during electroporation. In Biophysics (Russian Federation). ISSN 00063509, 2018-01-01, 63, 1, pp. 59-65., Registrované v: WOS
- ADCA636 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Effects of pesticides on yeasts isolated from agricultural soil. In Zeitschrift für Naturforschung C, 2003, vol. 58, p. 855-859.  
Citácie:  
1. [1.1] YILDIRIM, N. - ERGUVEN, G. O. - ADAR, E. The chemical and biochemical oxygen demand reduction by Armillaria tabescens in malathion supplemented culture medium. In GLOBAL NEST JOURNAL. ISSN 1790-7632, 2018, vol. 20, no. 3, pp. 529-533., Registrované v: WOS
- ADCA637 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, D. Yeasts colonizing the leaf surfaces. In Journal of Basic Microbiology, 2007, vol.47, p.344-350. (2006: 1.000 - IF). ISSN 0233-111X.  
Citácie:  
1. [1.1] GROSS, Simon - KUNZ, Liesa - MUELLER, Denise C. - KRON, Amanda Santos - FREIMOSER, Florian M. Characterization of antagonistic yeasts for biocontrol applications on apples or in soil by quantitative analyses of synthetic yeast communities. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 10, pp. 559-566., Registrované v: WOS  
2. [1.1] PRETSCHER, Julia - FISCHKAL, Tilman - BRANSCHIEDT, Sina - JAEGER, Lucas - KAHL, Susann - SCHLANDER, Martina - THINES, Eckhard - CLAUS, Harald. Yeasts from Different Habitats and Their Potential as Biocontrol Agents. In FERMENTATION-BASEL, 2018, vol. 4, no. 2, pp., Registrované v: WOS
- ADCA638 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. The occurrence of yeasts in the forest soils. In Journal of Basic Microbiology, 2000, vol. 40, p. 207-212. ISSN 0233-111X.  
Citácie:  
1. [1.1] GROENEWALD, Marizeth - LOMBARD, Lorenzo - DE VRIES, Michel - LOPEZ, Alejandra Giraldo - SMITH, Maudy - CROUS, Pedro W. Diversity of yeast species from Dutch garden soil and the description of six novel Ascomycetes. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2018, vol. 18, no. 7, pp., Registrované v: WOS  
2. [1.1] MASINOVA, Tereza - YURKOV, Andrey - BALDRIAN, Petr. Forest soil yeasts: Decomposition potential and the utilization of carbon sources. In FUNGAL ECOLOGY. ISSN 1754-5048, 2018, vol. 34, no., pp. 10-19., Registrované v: WOS  
3. [1.1] MONTEIRO MOREIRA, Geisianny Augusta - MARTINS DO VALE, Helson Mario. Occurrence of Yeast Species in Soils under Native and Modified Vegetation in an Iron Mining Area. In REVISTA BRASILEIRA DE CIENCIA DO SOLO. ISSN 0100-0683, 2018, vol. 42, no., pp., Registrované v: WOS  
4. [1.1] YURKOV, Andrey M. Yeasts of the soil obscure but precious. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 5, pp. 369-378., Registrované v: WOS
- ADCA639 SLÁVIKOVÁ, Elena - GRABINSKA-LONIEWSKA, A. Sporobolomyces lactosus, a new species of



ballistosporous yeast equipped with ubiquinone-10. In *Antonie van Leeuwenhoek*, 1992, vol. 61, p. 245-248. ISSN 0003-6072.

Citácie:

1. [1.1] BARAL, H. O. - WEBER, E. - MARSON, G. - QUIJADA, L. *A new connection between wood saprobism and beetle endosymbiosis: the rarely reported saprobic discomycete *Tromeropsis* is congeneric with the symbiotic yeast *Symbiotaphrina* (*Symbiotaphrinales*, *Xylonomycetes*) and two asexual morphs misplaced in *Hyphozyma*. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2018, vol. 17, no. 1-2, pp. 215-254., Registrované v: WOS*

ADCA640 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, Dana. Yeasts colonizing the leaves of fruit trees. Dana Vránová. In *Annals of Microbiology*, 2009, vol.53, no.3., pp.419-424.

Citácie:

1. [1.1] CORADETTI, Samuel T. - PINEL, Dominic - GEISELMAN, Gina M. - ITO, Masakazu - MONDO, Stephen J. - REILLY, Morgann C. - CHENG, Ya-Fang - BAUER, Stefan - GRIGORIEV, Igor V. - GLADDEN, John M. - SIMMONS, Blake A. - BREM, Rachel B. - ARKIN, Adam P. - SKERKER, Jeffrey M. *Functional genomics of lipid metabolism in the oleaginous yeast *Rhodospiridium toruloides*. In ELIFE. ISSN 2050-084X, 2018, vol. 7, no., pp., Registrované v: WOS*

2. [1.1] KHUNNAMWONG, Pannida - JINDAMORAKOT, Sasitorn - LIMTONG, Savitree. *Endophytic yeast diversity in leaf tissue of rice, corn and sugarcane cultivated in Thailand assessed by a culture-dependent approach. In FUNGAL BIOLOGY. ISSN 1878-6146, 2018, vol. 122, no. 8, pp. 785-799., Registrované v: WOS*

ADCA641 SMRČOK, Lubomír - SLÁDKOVIČOVÁ, Mariana - LANGER, Vratislav - WILSON, Chick C. - KOŮŠ, Miroslav. On hydrogen bonding in 1,6-anhydro-beta-D-glucopyranose (levoglucosan): X-ray and neutron diffraction and DFT study. In *Acta Crystallographica Section B*, 2006, vol. 62, p. 912-918. ISSN 0108-7681.

Citácie:

1. [1.1] HECZKO, Dawid - KAMINSKA, Ewa - MINECKA, Aldona - DZIENIA, Andrzej - JURKIEWICZ, Karolina - TARNACKA, Magdalena - TALIK, Agnieszka - KAMINSKI, Kamil - PALUCH, Marian. *High-pressure dielectric studies on 1,6-anhydro-beta-D-mannopyranose (plastic crystal) and 2,3,4-tri-O-acetyl-1,6-anhydro-beta-D-glucopyranose (canonical glass). In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, 2018, vol. 148, no. 20, pp., Registrované v: WOS*

2. [1.1] JANOSZKA, Katarzyna. *Determination of biomass burning tracers in air samples by GC/MS. In X-TH SCIENTIFIC CONFERENCE AIR PROTECTION IN THEORY AND PRACTICE. ISSN 2267-1242, 2018, vol. 28, no., pp., Registrované v: WOS*

3. [1.1] NISHIYAMA, Yoshiharu. *Molecular interactions in nanocellulose assembly. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES. ISSN 1364-503X, 2018, vol. 376, no. 2112, pp., Registrované v: WOS*

4. [1.1] ROTHER, Christina - GUTMANN, Alexander - GUDIMINCHI, Ramakrishna - WEBER, Hansjoerg - LEPAK, Alexander - NIDETZKY, Bernd. *Biochemical Characterization and Mechanistic Analysis of the Levoglucosan Kinase from *Lipomyces starkeyi*. In CHEMBIOCHEM. ISSN 1439-4227, 2018, vol. 19, no. 6, pp. 596-603., Registrované v: WOS*

5. [1.1] SUGIURA, Masayuki - NAKAHARA, Moe - YAMADA, Chihaya - ARAKAWA, Takatoshi - KITAOKA, Motomitsu - FUSHINOBU, Shinya. *Identification, functional characterization, and crystal structure determination of bacterial levoglucosan dehydrogenase. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2018, vol. 293, no. 45, pp. 17375-17386., Registrované v: WOS*

6. [1.1] URIARTE, Iciar - ECIJA, Patricia - LOZADA-GARCIA, Rolando - CARCABAL, Pierre - COCINERO, Emilio J. *Investigating the Conformation of the Bridged Monosaccharide Levoglucosan. In CHEMPHYSICHEM. ISSN 1439-4235, 2018, vol. 19, no. 6, pp. 766-773., Registrované v: WOS*

ADCA642 SMULEK, Wojciech - KACZOREK, Eva - HRICOVÍNIOVÁ, Zuzana. Alkyl xylosides: physico-chemical properties and influence on environmental bacteria cells. In *Journal of Surfactants and Detergents*, 2017, vol. 20, p. 1269-1279. (2016: 1.450 - IF, Q3 - JCR, 0.407 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1097-3958.

Citácie:

1. [1.1] OGAWA, Shigesaburo - TAKAHASHI, Isao - KOGA, Maito - ASAKURA, Kouichi - OSANAI, Shuichi. *Effect of Freeze-Thaw Treatment on the Precipitation of Octyl beta-D-Galactoside Hemihydrate Crystal from the Aqueous Solution. In JOURNAL OF OLEO SCIENCE. ISSN 1345-8957, 2018, vol. 67, no. 5, pp. 627-637., Registrované v: WOS*

ADCA643 SOBOLČIAK, Patrik - ŠPÍREK, Mário - KATRLÍK, Jaroslav - GEMEINER, Peter - LACÍK, Igor - KASÁK, Peter. Light-switchable polymer from cationic to zwitterionic form: Synthesis, characterization, and interactions with DNA and bacterial cells. In *Macromolecular Rapid*

Communications, 2013, vol. 34, p. 635 - 639. (2012: 4.929 - IF, 2.090 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1022-1336.

Citácie:

1. [1.1] XIE, Y. - CHEN, S.Q. - QIAN, Y.H. - ZHAO, W.F. - ZHAO, C.S. *Photo-responsive membrane surface: Switching from bactericidal to bacteria-resistant property*. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, MAR 1 2018, vol. 84, p. 52-59., Registrované v: WOS

ADCA644 SOUKUP, Milan - MARTINKA, Michal - BOSNIČ, Dragana - ČAPLOVIČOVÁ, Mária - ELBAUM, Rivka - LUX, Alexander. Formation of silica aggregates in sorghum root endodermis is predetermined by cell wall architecture and development. In *Annals of Botany*, 2017, vol. 120, p. 739-753. (2016: 4.041 - IF, Q1 - JCR, 1.942 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0305-7364.

Citácie:

1. [1.1] RYALLS, James M. W. - MOORE, Ben D. - JOHNSON, Scott N. - CONNOR, Myles - HILTPOLD, Ivan. *Root responses to domestication, precipitation and silicification: weeping meadow grass simplifies and alters toughness*. In *PLANT AND SOIL*. ISSN 0032-079X, 2018, vol. 427, no. 1-2, pp. 291-304., Registrované v: WOS

ADCA645 SOUKUP, Milan - MARTINKA, Michal - CIGÁŇ, Marek - RAVASZOVÁ, Frederika - LUX, Alexander. New method for visualization of silica phytoliths in *Sorghum bicolor* roots by fluorescence microscopy revealed silicate concentration-dependent phytolith formation. In *Planta*, 2014, vol. 240, p. 1365-1372. (2013: 3.376 - IF, 1.562 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0032-0935.

Citácie:

1. [1.1] BHAT, Mudassir A. - SHAKOOR, Sheikh A. - BADGEL, Priya - SOODAN, Amarjit S. *Taxonomic Demarcation of *Setaria pumila* (Poir.) Roem. & Schult., *S. verticillata* (L.) P. Beauv., and *S. viridis* (L.) P. Beauv. (Cenchrinae, Paniceae, Panicoideae, Poaceae) From Phytolith Signatures*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

2. [1.1] SAHI, Vaidurya Pratap - BALUSKA, Frantisek. *Apoplastic Barriers: Their Structure and Function from a Historical Perspective*. In *CONCEPTS IN CELL BIOLOGY HISTORY AND EVOLUTION*. ISSN 1861-1370, 2018, vol. 23, no., pp. 155-183., Registrované v: WOS

ADCA646 SPIWOK, Vojtech - KRÁLOVÁ, Blanka. Metadynamics in the conformational space nonlinearly dimensionally reduced by Isomap. In *Journal of Chemical Physics*, 2011, vol. 135, p. 224504-224509. (2010: 2.921 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0021-9606.

Citácie:

1. [1.1] CAMILLONI, Carlo - PIETRUCCHI, Fabio. *Advanced simulation techniques for the thermodynamic and kinetic characterization of biological systems*. In *ADVANCES IN PHYSICS-X*. ISSN 2374-6149, 2018, vol. 3, no. 1, pp., Registrované v: WOS

2. [1.1] CHEN, Wei - FERGUSON, Andrew L. *Molecular Enhanced Sampling with Autoencoders: On-The-Fly Collective Variable Discovery and Accelerated Free Energy Landscape Exploration*. In *JOURNAL OF COMPUTATIONAL CHEMISTRY*. ISSN 0192-8651, 2018, vol. 39, no. 25, pp. 2079-2102., Registrované v: WOS

3. [1.1] CHEN, Wei - TAN, Aik Rui - FERGUSON, Andrew L. *Collective variable discovery and enhanced sampling using autoencoders: Innovations in network architecture and error function design*. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2018, vol. 149, no. 7, pp., Registrované v: WOS

4. [1.1] LONG, Andrew W. - FERGUSON, Andrew L. *Rational design of patchy colloids via landscape engineering*. In *MOLECULAR SYSTEMS DESIGN & ENGINEERING*. ISSN 2058-9689, 2018, vol. 3, no. 1, pp. 49-65., Registrované v: WOS

5. [1.1] SEO, Bumjoon - KIM, Seulwoo - LEE, Minhwan - KIM, Taewan - KIM, Hyoun-Soo - LEE, Won Bo - LEE, Youn-Woo. *Prediction of the Crystal Morphology of beta-HMX using a Generalized Interfacial Structure Analysis Model*. In *CRYSTAL GROWTH & DESIGN*. ISSN 1528-7483, 2018, vol. 18, no. 4, pp. 2349-2357., Registrované v: WOS

6. [1.1] SEO, Bumjoon - KIM, Seulwoo - LEE, Minhwan - LEE, Youn-Woo - LEE, Won Bo. *Driving Conformational Transitions in the Feature Space of Autoencoder Neural Network*. In *JOURNAL OF PHYSICAL CHEMISTRY C*. ISSN 1932-7447, 2018, vol. 122, no. 40, pp. 23224-23229., Registrované v: WOS

7. [1.1] WANG, J. - FERGUSON, A. L. *Nonlinear machine learning in simulations of soft and biological materials*. In *MOLECULAR SIMULATION*. ISSN 0892-7022, 2018, vol. 44, no. 13-14, pp. 1090-1107., Registrované v: WOS

8. [1.1] XIE, Tian - GROSSMAN, Jeffrey C. *Hierarchical visualization of materials space with graph convolutional neural networks*. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2018, vol. 149, no. 17, pp., Registrované v: WOS



- ADCA647 SPIWOK, Vojtech - KRÁLOVÁ, Blanka - TVAROŠKA, Igor. Modelling of beta-D-glucopyranose ring distortion in different force fields: a metadynamics study. In *Carbohydrate Research*, 2010, vol.345, p. 530-537. (2009: 2.025 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] KUTTEL, Michelle M. - RAVENSCROFT, Neil. *The Role of Molecular Modeling in Predicting Carbohydrate Antigen Conformation and Understanding Vaccine Immunogenicity*. In *CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC*. ISSN 0097-6156, 2018, vol. 1290, no., pp. 139-173., Registrované v: WOS
  - [1.1] PANCZYK, Karina - PLAZINSKI, Wojciech. *Pyranose ring puckering in aldopentoses, ketohexoses and deoxyaldohexoses. A molecular dynamics study*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 455, no., pp. 62-70., Registrované v: WOS
  - [1.1] UTO, Takuya - YAMAMOTO, Kazuya - KADOKAWA, Jun-ichi. *Cellulose Crystal Dissolution in Imidazolium-Based Ionic Liquids: A Theoretical Study*. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 1, pp. 258-266., Registrované v: WOS
  - [1.1] UTO, Takuya - YUI, Toshitomi. *Higher Ordered Structure of Cellulose Predicted by Computational Chemistry: Cellulose Nanotube in Cyclohexane and Ethyl Acetate*. In *JOURNAL OF FIBER SCIENCE AND TECHNOLOGY*. ISSN 2189-7654, 2018, vol. 74, no. 8, pp. 171-176., Registrované v: WOS
- ADCA648 SPIWOK, Vojtech - TVAROŠKA, Igor. Conformational Free Energy Surface of alfa-N-Acetylneuraminic Acid: An Interplay Between Hydrogen Bonding and Solvation. In *Journal of Physical Chemistry*, 2009, vol.113, pp. 9589-9594.
- Citácie:
- [1.1] ALIBAY, Irfan - BURUSCO, Kepa K. - BRUCE, Neil J. - BRYCE, Richard A. *Identification of Rare Lewis Oligosaccharide Conformers in Aqueous Solution Using Enhanced Sampling Molecular Dynamics*. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 9, pp. 2462-2474., Registrované v: WOS
  - [1.1] RICHARDS, Michele R. - GUO, Tianlin - HUNTER, Carmanah D. - CAIRO, Christopher W. *Molecular dynamics simulations of viral neuraminidase inhibitors with the human neuraminidase enzymes: Insights into isoenzyme selectivity*. In *BIOORGANIC & MEDICINAL CHEMISTRY*. ISSN 0968-0896, 2018, vol. 26, no. 19, pp. 5349-5358., Registrované v: WOS
- ADCA649 STANKOVSKÁ, Monika - ARNHOLD, Juergen - RYCHLÝ, Jozef - SPALTEHOLZ, Holger - GEMEINER, Peter - ŠOLTÉS, Ladislav. In vitro screening of the action of non-steroidal anti-inflammatory drugs on hypochlorous acid-induced hyaluronan degradation. In *Polymer Degradation and Stability*, 2007, vol. 92, p. 644-652. (2006: 2.174 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0141-3910.
- Citácie:
- [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA650 STANKOVSKÁ, Monika - HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - MOLNÁROVÁ, Marianna - GEMEINER, Peter - ŠOLTÉS, Ladislav. The degradative action of peroxyxynitrite on high-molecular-weight hyaluronan. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 31-34. (2005: 1.005 - IF). (2006 - WOS, SCOPUS). ISSN 0172-780X.
- Citácie:
- [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA651 STANKOVSKÁ, Monika - ŠOLTÉS, Ladislav - VIKARTOVSKÁ, Alica, Welwardová - MENDICHI, Raniero - LATH, Dieter - MOLNÁROVÁ, Marianna - GEMEINER, Peter. Study of hyaluronan degradation by means of rotational viscometry: contribution of the material of viscometer. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 2004, vol. 58, no. 5, p. 348-352. ISSN 0366-6352.
- Citácie:
- [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-

- 77188-558-4.
- ADCA652 STAŠKO, Andrej - BREZOVÁ, Vlasta - ZALIBERA, Michal - BISKUPIČ, Stanislav - ONDRIAŠ, Karol. Electron transfer: A primary step in the reactions of sodium hydrosulphide, an H<sub>2</sub>S/HS<sup>-</sup> donor. In *Free Radical Research : official journal of the Society for Free Radical Research -European Region*, 2009, vol. 46, iss. 6, p. 581-593. (2008: 2.826 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1071-5762.
- Citácie:
1. [1.1] KUMAR, Mohit - SANDHIR, Rajat. *Hydrogen Sulfide in Physiological and Pathological Mechanisms in Brain*. In *CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS*. ISSN 1871-5273, 2018, vol. 17, no. 9, pp. 654-670., Registrované v: WOS
- ADCA653 STAŠKO, Andrej - LUŠPAI, Karol - BARBIERIKOVÁ, Zuzana - RIMARČÍK, Ján - VAGÁNEK, Adam - LUKEŠ, Vladimír - BELLA, Maroš - MILATA, Viktor - ZALIBERA, Michal - RAPTA, Peter - BREZOVÁ, Vlasta. Stable radical trianions from reversibly formed sigma-dimers of selenadiazoloquinolones studied by in situ EPR/UV-vis spectroelectrochemistry and quantum chemical calculations. In *Journal of Physical Chemistry A.Molecules, spectroscopy, kinetics, environment, and general theory*, 2012, vol. 116, p. 9919-9927. (2011: 2.946 - IF, 1.402 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1089-5639.
- Citácie:
1. [1.1] NEMES, Coleen T. - SWIERK, John R. - SCHMUTTENMAER, Charles A. *A Terahertz-Transparent Electrochemical Cell for In Situ Terahertz Spectroelectrochemistry*. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2018, vol. 90, no. 7, pp. 4389-4396., Registrované v: WOS
- ADCA654 STEELE, N. M. - SULOVÁ, Zdena - CAMPBELL, P. - BRAAM, J. - FARKAŠ, Vladimír - FRY, S. C. Ten isoenzymes of xyloglucan endotransglycosylase from plant cell walls select and cleave the donor substrate stochastically. In *Biochemical Journal*, 2001, vol. 355, p. 671-679. ISSN 0264-6021.
- Citácie:
1. [1.1] MAJDA, Mateusz - ROBERT, Stephanie. *The Role of Auxin in Cell Wall Expansion*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 4, pp., Registrované v: WOS
- ADCA655 STERN, Robert - KOGAN, Grigorij - JEDRZEJAS, Mark J. - ŠOLTÉS, Ladislav. The many ways to cleave hyaluronan. In *Biotechnology Advances*, 2007, vol. 25, p. 537-557. (2006: 4.943 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0734-9750.
- Citácie:
1. [1.1] BAEK, J. - FAN, Y. - JEONG, S.H. - LEE, H.Y. - JUNG, H.D. - KIM, H.E. - KIM, S. - JANG, T.S. *Facile strategy involving low-temperature chemical cross-linking to enhance the physical and biological properties of hyaluronic acid hydrogel*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 202, p. 545-553., Registrované v: WOS
2. [1.1] BAUER, J. - ROTHLEY, M. - SCHMAUS, A. - QUAGLIATA, L. - EHRET, M. - BISKUP, M. - ORIAN-ROUSSEAU, V. - JACKSON, D.G. - PETTIS, R.J. - HARVEY, A. - BRASE, S. - THIELE, W. - SLEEMAN, J.P. *TGF beta counteracts LYVE-1-mediated induction of lymphangiogenesis by small hyaluronan oligosaccharides*. In *JOURNAL OF MOLECULAR MEDICINE-JMM*. ISSN 0946-2716, 2018, vol. 96, no. 2, p. 199-209., Registrované v: WOS
3. [1.1] BORKE, T. - NAJBERG, M. - ILINA, P. - BHATTACHARYA, M. - URTTI, A. - TENHU, H. - HIETALA, S. *Hyaluronic Acid Graft Copolymers with Cleavable Arms as Potential Intravitreal Drug Delivery Vehicles*. In *MACROMOLECULAR BIOSCIENCE*. ISSN 1616-5187, 2018, vol. 18, no. 1, SI., art. no. 1700200., Registrované v: WOS
4. [1.1] BOTHA, C. - KUNTZ, J.F. - MOIRE, C. - FARCET, C. - PFUKWA, H. - PASCH, H. *Molar Mass Analysis of Hydrophobically Modified Hyaluronic Acid by SEC-MALLS: Facing the Challenges of Amphiphilic Biomacromolecules*. In *MACROMOLECULAR CHEMISTRY AND PHYSICS*. ISSN 1022-1352, 2018, vol. 219, no. 19, art. no. 1800233., Registrované v: WOS
5. [1.1] CHO, S.Y. - PARK, J.W. - AN, H. - KO, H.J. - KIM, H. - CHOI, J.K. - CHOI, S.Y. - KIM, S.M. - KO, E.J. - KIM, B.J. *Physical properties of a novel small-particle hyaluronic acid filler: In vitro, invivo, and clinical studies*. In *JOURNAL OF COSMETIC DERMATOLOGY*. ISSN 1473-2130, 2018, vol. 17, no. 3, p. 347-354., Registrované v: WOS
6. [1.1] CONROZIER, T. *Is the addition of a polyol to hyaluronic acid a significant advance in the treatment of osteoarthritis?* In *CURRENT RHEUMATOLOGY REVIEWS*. ISSN 1573-3971, 2018, vol. 14, no. 3, p. 226-230., Registrované v: WOS
7. [1.1] COZIKOVA, D. - HERMANNOVA, M. - BUFFA, R. - FOGLOVA, T. - NESPOROVA, K. - KOTLAND, O. - VELEBNY, V. *COMPARISON OF DEGRADATION PRODUCTS GENERATED DURING OXIDATIVE REDUCTIVE DEPOLYMERIZATION AND ACID HYDROLYSIS OF HYALURONAN*. In *PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE*. ISSN 2336-6796, 2018, p. 37-39., Registrované v: WOS
8. [1.1] FALLACARA, A. - BALDINI, E. - MANFREDINI, S. - VERTUANI, S. *Hyaluronic Acid in the Third Millennium*. In *POLYMERS*. ISSN 2073-4360, 2018, vol. 10, no. 7, art. no. 701.,

Registrované v: WOS

9. [1.1] FERRAZ, R.M. - SANDKVIST, U. - LUNDGREN, B. Degradation of Hyaluronic Acid Fillers Using Hyaluronidase in an In Vivo Model. In JOURNAL OF DRUGS IN DERMATOLOGY. ISSN 1545-9616, 2018, vol. 17, no. 5, p. 548-553., Registrované v: WOS
10. [1.1] GAMARRA, A. - MISSAGIA, B. - URPI, L. - MORATO, J. - MUNOZ-GUERRA, S. Ionic coupling of hyaluronic acid with ethyl N-lauroyl L-arginate (LAE): Structure, properties and biocide activity of complexes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 1 2018, vol. 197, p. 109-116., Registrované v: WOS
11. [1.1] GRIESSER, J. - HETÉNYI, G. - BERNKOP-SCHNÜRCH, A. Thiolated hyaluronic acid as versatile mucoadhesive polymer: From the chemistry behind to product developments-What are the capabilities? In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 3, art. no. 243., Registrované v: WOS
12. [1.1] HUANG, X.Y. - SCHMIDT, T.A. - SHORTT, C. - ARORA, S. - ASARI, A. - KIRSCH, T. - COWMAN, M.K. A competitive alphascreen assay for detection of hyaluronan. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 3, p. 137-147., Registrované v: WOS
13. [1.1] ICHIKAWA, M. - HIRAYAMA, T. - FUKUSHIMA, M. - KITAZAWA, I. - KOJIMA, K. - SAKAI, T. - TAKATSU, Y. - OHTAKI, T. Glycosaminoglycan Conjugation for Improving the Duration of Therapeutic Action of Glucagon-Like Peptide-1. In ACS OMEGA. ISSN 2470-1343, 2018, vol. 3, no. 5, p. 5346-5354., Registrované v: WOS
14. [1.1] JING, J. - BANKEFORS, J. - BONNEAUD, C. - SAWEN, E. - GERFAUD, T. - WESTIN, J. - EL-BAZBOUZ, G. - KANDELIN, L. - ROUSSEAU, A. - OLSSON, J. - KARLSSON, A. - NORD, L. - BOUIX-PETER, C. - KENNE, A.H. - BOITEAU, J.G. - TOMAS, L. - HENNEQUIN, L. - HARRIS, C.S. Rapid and Selective Cleavage of Amide Groups at Neutral pH: Applications from Hyaluronic Acid to Small Molecules. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2018, no. 23, p. 2995-3000., Registrované v: WOS
15. [1.1] KANG, Z. - ZHOU, Z.X. - WANG, Y. - HUANG, H. - DU, G.C. - CHEN, J. Bio-Based Strategies for Producing Glycosaminoglycans and Their Oligosaccharides. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, 2018, vol. 36, no. 8, p. 806-818., Registrované v: WOS
16. [1.1] KARAMANOS, N.K. - PIPERIGKOU, Z. - THEOCHARIS, A.D. - WATANABE, H. - FRANCHI, M. - BAUD, S. - BREZILLON, S. - GOTTE, M. - PASSI, A. - VIGETTI, D. - RICARD-BLUM, S. - SANDERSON, R.D. - NEILL, T. - IOZZO, R.V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 18, p. 9152-9232., Registrované v: WOS
17. [1.1] KARVINEN, J. - JOKI, T. - YLÄ-OUTINEN, L. - KOIVISTO, J.T. - NARKILAHTI, S. - KELLOMÄKI, M. Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. In REACTIVE AND FUNCTIONAL POLYMERS. ISSN 1381-5148, 2018, vol. 124, p. 29-39., Registrované v: WOS
18. [1.1] LEE, H.Y. - HWANG, C.H. - KIM, H.E. - JEONG, S.H. Enhancement of bio-stability and mechanical properties of hyaluronic acid hydrogels by tannic acid treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 186, p. 290-298., Registrované v: WOS
19. [1.1] MAI, V.Q. - VO, T.T. - MEERE, M. Modelling hyaluronan degradation by streptococcus pneumoniae hyaluronate lyase. In MATHEMATICAL BIOSCIENCES. ISSN 0025-5564, 2018, vol. 303, p. 126-138., Registrované v: WOS
20. [1.1] MARELLA, M. - JADIN, L. - KELLER, G.A. - SUGARMAN, B.J. - FROST, G.I. - SHEPARD, H.M. KIAA1199 expression and hyaluronan degradation colocalize in multiple sclerosis lesions. In GLYCOBIOLOGY. ISSN 0959-6658, 2018, vol. 28, no. 12, p. 958-967., Registrované v: WOS
21. [1.1] MARTIN-MARTIN, I. - CHAGAS, A.C. - GUIMARAES-COSTA, A.B. - AMO, L. - OLIVEIRA, F. - MOORE, I.N. - DESOUSA-VIEIRA, T.S. - SANCHEZ, E.E. - SUNTRAVAT, M. - VALENZUELA, J.G. - RIBEIRO, J.M.C. - CALVO, E. Immunity to LuloHya and Lundep, the salivary spreading factors from Lutzomyia longipalpis, protects against Leishmania major infection. In PLOS PATHOGENS. ISSN 1553-7366, 2018, vol. 14, no. 5, art. no. e1007006., Registrované v: WOS
22. [1.1] MIHOUB, A.B. - SAIDAT, B. - BAL, Y. - FROCHOT, C. - VANDERESSE, R. - ACHERAR, S. Development of new ionic gelation strategy: Towards the preparation of new monodisperse and stable hyaluronic acid/beta-cyclodextrin-grafted chitosan nanoparticles as drug delivery carriers for doxorubicin. In FRONTIERS OF MATERIALS SCIENCE. ISSN 2095-025X, 2018, vol. 12, no. 1, p. 83-94., Registrované v: WOS
23. [1.1] MONTANARI, E. - DI MEO, C. - OATES, A. - COVIELLO, T. - MATRICARDI, P. Pursuing Intracellular Pathogens with Hyaluronan. From a 'Pro-Infection'; Polymer to a Biomaterial for 'Trojan Horse'; Systems. In MOLECULES. ISSN 1420-3049, 2018, vol. 23, no. 4, art. no. 939., Registrované v: WOS



24. [1.1] MONTANARI, E. - OATES, A. - DI MEO, C. - MEADE, J. - CERRONE, R. - FRANCIOSO, A. - DEVINE, D. - COVIELLO, T. - MANCINI, P. - MOSCA, L. - MATRICARDI, P. *Hyaluronan-Based Nanohydrogels for Targeting Intracellular S-Aureus in Human Keratinocytes*. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2018, vol. 7, no. 12, art. no. 1701483., Registrované v: WOS
25. [1.1] PARK, C. - KIM, Y.H. - LEE, S.R. - PARK, S. - JUNG, Y. - LEE, Y. - KIM, J.S. - EOM, T. - KIM, J.S. - LEE, D.M. - SONG, B.S. - SIM, B.W. - KIM, S.U. - CHANG, K.T. - KIM, E. *Characterization of Recombinant Bovine Sperm Hyaluronidase and Identification of an Important Asn-X-Ser/Thr Motif for Its Activity*. In *JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 1017-7825, 2018, vol. 28, no. 9, p. 1547-1553., Registrované v: WOS
26. [1.1] SHAH, K. - CHAWLA, S. - GADEVAL, A. - REDDY, G. - MAHESHWARI, R. - KALLA, K. - TEKADE, R.K. *Nanostructured Hyaluronic Acid-based Materials for the Delivery of siRNA*. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2018, vol. 24, no. 23, p. 2678-2691., Registrované v: WOS
27. [1.1] SILVA, F. - HUANG, Y. - YANG, V. - MU, X.D. - SHI, Q. - ANTUNES, A. *Transcriptomic Characterization of the South American Freshwater Stingray *Potamotrygon motoro* Venom Apparatus*. In *TOXINS*. ISSN 2072-6651, 2018, vol. 10, no. 12, art. no. 544., Registrované v: WOS
28. [1.1] TRUSEK, A. - NIESOBSKA, A. - SEMBA, D. *Enzymatic Hydrolysis of Hyaluronic Layer before Drug Dosing*. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2018, vol. 19, no. 12, p. 963-972., Registrované v: WOS
29. [1.1] VULPE, R. - POPA, M. - PICTON, L. - PEPTU, C.A. - TUDORACHI, N. - VERESTIUC, L. *Scaffolds Based on Collagen, Hyaluronan and Sericin with Potential Applications as Controlled Drug Delivery System*. In *JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY*. ISSN 1533-4880, 2018, vol. 18, no. 3, p. 1528-1533., Registrované v: WOS
30. [1.2] KANG, Z. - LIU, L. - LIU, S. *Microbial production of hyaluronic acid: Current state, challenges, and perspectives. (Book Chapter)*. In *FUNCTIONAL CARBOHYDRATES: DEVELOPMENT, CHARACTERIZATION, AND BIOMANUFACTURE*. CRC Press, 2017, p. 21-42. ISBN: 978-149871878-3; 978-149871877-6, Registrované v: SCOPUS
31. [1.2] PEREIRA, H. - SOUSA, D.A. - CUNHA, A. - ANDRADE, R. - ESPREGUEIRA-MENDES, J. - OLIVEIRA, J.M. - REIS, R.L. *Hyaluronic acid. (Book Chapter)*. In *ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY*. ISSN 0065-2598, 2018, vol. 1059, p. 137-153., Registrované v: SCOPUS
32. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakville, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA656 STREĎANSKÝ, Miroslav - REDIVO, Luca\*\* - MAGDOLEN, Peter - STREĎANSKÝ, Adam - NAVARINI, Luciano. *Rapid sucrose monitoring in green coffee samples using multienzymatic biosensor*. In *Food Chemistry*, 2018, vol. 254, p. 8-12. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0308-8146.
- Citácie:
1. [1.1] SOGANCI, Tugba - AYRANCI, Rukiye - HARPUTLU, Ersan - OCAKOGLU, Kasim - ACET, Mehmet - FARLE, Michael - UNLU, C. Gokhan - AK, Metin. *An effective non-enzymatic biosensor platform based on copper nanoparticles decorated by sputtering on CVD graphene*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 273, no., pp. 1501-1507., Registrované v: WOS
- ADCA657 SUGITA, T. - TAKEO, K. - HAMA, K. - VIRTUDAZO, E. - TAKASHIMA, M. - NISHIKAWA, A. - KUCSERA, J. - DOROG, J. - KOMORI, S. - NAKAGAKO, K. - VOLLEKOVÁ, A. - SLÁVIKOVÁ, Elena - FARKAŠ, Vladimír. *DNA sequences diversity of intergenic spacer I region in the non-lipid-dependent species *Malassezia pachydermatis* isolated from animals*. In *Medical mycology*, 2005, vol. 43, p. 21-26.
- Citácie:
1. [1.1] CZYZEWSKA, Urszula - SIEMIENIUK, Magdalena - BARTOSZEWICZ, Marek - TYLICKI, Adam. *Fungi of the genus *Malassezia* as opportunists of humans and animals*. In *POSTĘPY HIGIENY I MEDYCYNY DOSWIADCZALNEJ*. ISSN 0032-5449, 2018, vol. 72, no., pp. 359-375., Registrované v: WOS
2. [1.1] ILAHI, Amin - HADRICHI, Ines - GOUDJIL, Sabrina - KONGOLO, Guy - CHAZAL, Christele - LEKE, Andre - AYADI, Ali - CHOUAKI, Taieb - RANQUE, Stephane. *Molecular epidemiology of a *Malassezia pachydermatis* neonatal unit outbreak*. In *MEDICAL MYCOLOGY*. ISSN 1369-3786, 2018, vol. 56, no. 1, pp. 69-77., Registrované v: WOS
3. [1.1] SONG XIAO-XIA - ZHAO YAN - SONG CHUN-YAN - LI CHUAN-HUA - CHEN MING-JIE - HUANG JIAN-CHUN - TAN QI. *Intergenic spacer 1 (IGS1) polymorphism map: A marker*



- for the initial classification of cultivated Lentinula edodes strains in China. In JOURNAL OF INTEGRATIVE AGRICULTURE. ISSN 2095-3119, 2018, vol. 17, no. 11, pp. 2458-2466., Registrované v: WOS*
- ADCA658 SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - TIBENSKÁ, Elena - TEDLOVÁ, Eva - DEMIAN, Juraj - MAJER, Ivan - NOVOSADOVÁ, Helena - TEDLA, Miroslav - PAULOVÍČOVÁ, Ema - KANTAROVÁ, Daniela. Triggering receptor expressed on myeloid cells-1 and 2 in bronchoalveolar lavage fluid in pulmonary sarcoidosis. In *Respirology*, 2013, vol. 18, p. 455-462. (2012: 2.781 - IF, 1.038 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1323-7799.  
Citácie:  
1. [1.2] MARCO, Sean A. - BROWN, Craig - PANCOAST, Thomson. Diagnostic Utility of CD4/CD8 Ratio in Bronchoalveolar Lavage. In *Clinical Pulmonary Medicine*. ISSN 10680640, 2018-01-01, 25, 2, pp. 67-73., Registrované v: SCOPUS
- ADCA659 SUCHÁNKOVÁ, Magda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MAJER, Ivan - TEDLOVÁ, Eva - NOVOSADOVÁ, Helena - TIBENSKÁ, Elena - TEDLA, Miroslav. Increased antifungal antibodies in bronchoalveolar lavage fluid and serum in pulmonary sarcoidosis. In *Scandinavian Journal of Immunology*, 2015, vol. 81, p. 259-264. (2014: 1.739 - IF, Q4 - JCR, 0.898 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0300-9475.  
Citácie:  
1. [1.1] CLARKE, Erik L. - LAUDER, Abigail P. - HOFSTAEDTER, Casey E. - HWANG, Young - FITZGERALD, Ayannah S. - IMAI, Ize - BIERNAT, Wojciech - REKAWIECKI, Bartłomiej - MAJEWSKA, Hanna - DUBANIEWICZ, Anna - LITZKY, Leslie A. - FELDMAN, Michael D. - BITTINGER, Kyle - ROSSMAN, Milton D. - PATTERSON, Karen C. - BUSHMAN, Frederic D. - COLLMAN, Ronald G. Microbial Lineages in Sarcoidosis A Metagenomic Analysis Tailored for Low-Microbial Content Samples. In *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*. ISSN 1073-449X, 2018, vol. 197, no. 2, pp. 225-234., Registrované v: WOS
- ADCA660 SULOVÁ, Zdena - LEDNICKÁ, M. - FARKAŠ, Vladimír. A colorimetric assay for xyloglucan-endotransglycosylase from germinating-seeds. In *Analytical Biochemistry*, 1995, vol. 229, issue 1, p. 80-85. ISSN 0003-2697.  
Citácie:  
1. [1.1] HERBURGER, Klaus - RYAN, Louise M. - POPPER, Zoe A. - HOLZINGER, Andreas. Localisation and substrate specificities of transglycanases in charophyte algae relate to development and morphology. In *JOURNAL OF CELL SCIENCE*. ISSN 0021-9533, 2018, vol. 131, no. 2, pp., Registrované v: WOS  
2. [1.1] RAMOS, Patricio - PARRA-PALMA, Carolina - FIGUEROA, Carlos R. - ZUNIGA, Paz E. - VALENZUELA-RIFFO, Felipe - GONZALEZ, Jaime - GAETE-EASTMAN, Carlos - MORALES-QUINTANA, Luis. Cell wall-related enzymatic activities and transcriptional profiles in four strawberry (*Fragaria x ananassa*) cultivars during fruit development and ripening. In *SCIENTIA HORTICULTURAE*. ISSN 0304-4238, 2018, vol. 238, no., pp. 325-332., Registrované v: WOS
- ADCA661 SULOVA, Zdena - BARAN, Richard - FARKAŠ, Vladimír. Release of complexed xyloglucan endotransglycosylase (XET) from plant cell walls by a transglycosylation reaction with xyloglucan-derived oligosaccharides. In *Plant Physiology and Biochemistry*, 2001, vol. 39, p. 927-932. ISSN 0981-9428.  
Citácie:  
1. [1.1] LIN, Shoukai - WU, Ti - LIN, Hailan - ZHANG, Yanqing - XU, Shichang - WANG, Jinge - WU, Bisha - CHEN, Yu - LIN, Suying - LIN, Dahe - WANG, Xiumei - ZHAO, Xiaoxu - WU, Jincheng. De Novo Analysis Reveals Transcriptomic Responses in *Eriobotrya japonica* Fruits during Postharvest Cold Storage. In *GENES*. ISSN 2073-4425, 2018, vol. 9, no. 12, pp., Registrované v: WOS
- ADCA662 SULOVA, Zdena - HRMOVÁ, Mária - FARKAŠ, Vladimír. Photostimulated oxygen uptake in *Trichoderma viride*. In *Journal of General Microbiology*, 1990, vol. 136, p. 2287.  
Citácie:  
1. [1.1] SCHMOLL, Monika. Light, stress, sex and carbon The photoreceptor ENVOY as a central checkpoint in the physiology of *Trichoderma reesei*. In *FUNGAL BIOLOGY*. ISSN 1878-6146, 2018, vol. 122, no. 6, pp. 479-486., Registrované v: WOS
- ADCA663 SULOVA, Zdena - TAKACOVA, M. - STEELE, N.M. - FRY, S.C. - FARKAŠ, Vladimír. Xyloglucan endotransglycosylase: evidence for the existence of a relatively stable glycosyl-enzyme intermediate. In *Biochemical Journal*, 1998, vol. 330, p. 1475-1480. ISSN 0264-6021.  
Citácie:  
1. [1.1] OTULAK-KOZIEL, Katarzyna - KOZIEL, Edmund - BUJARSKI, Jozef J. Spatiotemporal Changes in Xylan-1/Xyloglucan and Xyloglucan Xyloglucosyl Transferase (XTH-Xet5) as a Step-In of Ultrastructural Cell Wall Remodelling in Potato-Potato Virus Y (PVYNTN) Hypersensitive and Susceptible Reaction. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 2018, vol. 19, no. 8, pp., Registrované v: WOS

- ADCA664 SYNYTSYA, Andriy - CHOI, Doo Jin - POHL, Radek - NA, Ye Seul - CAPEK, Peter - LATTOVÁ, Erika - TAUBNER, Tomáš - CHOI, Ji Won - LEE, Chang Won - PARK, Jae Kweon - KIM, Woo Jung - KIM, Sung Min - LEE, Jisun - PARK, Yong Il. Structural features and anti-coagulant activity of the sulphated polysaccharide SPS-CF from a green alga *Capsosiphon fulvescens*. In *Marine Biotechnology*, 2015, vol. 17, p. 718-735. (2014: 3.269 - IF, Q1 - JCR, 1.137 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1436-2228.
- Citácie:
- [1.1] Castañeda Antonio, Ma. Dolores Martínez Carrera, Daniel Claudio Rivera Tapia, José Antonio Portillo Reyes, Roberto Morales Almora, Porfirio Sobal Cruz, Mercedes Macías López, Antonio Leal Lara, Hermilo. Detection of polysaccharides in *Ganoderma lucidum* extracts. In: *Nova scientia* Vol. 10 (2018), Issue: 21, p. 247-257, Registrované v: WOS
  - [1.1] LI, Peipei - WEN, Songsong - SUN, Kunlai - ZHAO, Yuqin - CHEN, Yin. Structure and Bioactivity Screening of a Low Molecular Weight Ulvan from the Green Alga *Ulothrix flacca*. In *MARINE DRUGS*. ISSN 1660-3397, 2018, vol. 16, no. 8, pp., Registrované v: WOS
  - [1.1] LI, Qingqing - LUO, Jing - WANG, Chengmin - TAI, Wenjing - WANG, Haihua - ZHANG, Xu - LIU, Kongshang - JIA, Yaxiong - LYU, Xueze - WANG, Liang - HE, Hongxuan. Ulvan extracted from green seaweeds as new natural additives in diets for laying hens. In *JOURNAL OF APPLIED PHYCOLOGY*. ISSN 0921-8971, 2018, vol. 30, no. 3, pp. 2017-2027., Registrované v: WOS
  - [1.1] SONG, Young-Ran - SUNG, Su-Kyung - JANG, Mi - LIM, Tae-Gyu - CHO, Chang-Won - HAN, Chun-Ji - HONG, Hee-Do. Enzyme-assisted extraction, chemical characteristics, and immunostimulatory activity of polysaccharides from Korean ginseng (*Panax ginseng* Meyer). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 116, no., pp. 1089-1097., Registrované v: WOS
  - [1.1] YUN, Mi-Young - LEE, Jae-Sug - KIM, Byoung-Soo - CHOI, Hwa-Jung. *Capsosiphon fulvescens* extracts improve obesity-associated metabolic disorders and hepatic steatosis in high-fat diet-induced obese mice. In *ANIMAL SCIENCE JOURNAL*. ISSN 1344-3941, 2018, vol. 89, no. 3, pp. 589-596., Registrované v: WOS
  - [1.2] SANJEEWA, K. K. Asanka - LEE, Won Woo - JEON, You Jin. Nutrients and bioactive potentials of edible green and red seaweed in Korea. In *Fisheries and Aquatic Sciences*. ISSN 22341749, 2018-07-09, 21, 1, pp., Registrované v: SCOPUS
- ADCA665 ŠANDULA, Jozef - KOGAN, Grigorij - KACURÁKOVÁ, Marta - MACHOVÁ, Eva. Microbial (1-3)-beta-glucans, their preparation, physico-chemical characterization and immunomodulatory activity. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1999, vol. 38, p 247-253. (1998: 1.129 - IF, karentované - CCC). (1999 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] BANCERZ, Renata - OSINSKA-JAROSZUK, Monika - JASZEK, Magdalena - SULEJ, Justyna - WIATER, Adrian - MATUSZEWSKA, Anna - ROGALSKI, Jerzy. Fungal polysaccharides as a water-adsorbing material in esters production with the use of lipase from *Rhizomucor variabilis*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 118, no., pp. 957-964., Registrované v: WOS
  - [1.1] BZDUCHA-WROBEL, Anna - POBIEGA, Katarzyna - BLAZEJAK, Stanislaw - KIELISZEK, Marek. The scale-up cultivation of *Candida utilis* in waste potato juice water with glycerol affects biomass and beta(1,3)/(1,6)-glucan characteristic and yield. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9131-9145., Registrované v: WOS
  - [1.1] CERTANO, Amanda K. - FERNANDEZ, Christopher W. - HECKMAN, Katherine A. - KENNEDY, Peter G. The afterlife effects of fungal morphology: Contrasting decomposition rates between diffuse and rhizomorphic necromass. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2018, vol. 126, no., pp. 76-81., Registrované v: WOS
  - [1.1] FRANCISCO DELGADO, Juan - PELTZER, Mercedes A. - SALVAY, Andres G. - DE LA OSA, Orlando - WAGNER, Jorge R. Characterization of thermal, mechanical and hydration properties of novel films based on *Saccharomyces cerevisiae* biomass. In *INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES*. ISSN 1466-8564, 2018, vol. 48, no., pp. 240-247., Registrované v: WOS
  - [1.1] KIM, In Sung - LEE, Seung Ho - KIM, Jeong A. - YU, Da Yoon - HONG, Yeon Hee - KIM, Jae Young - LIM, Jong Min - LEE, Sang Suk - YUN, Cheol-Heui - CHOI, In Soon - CHO, Kwang Keun. Effect of oral administration of beta-glucans derived from *Aureobasidium pullulans* SM-2001 in model mice and rat with atopic dermatitis-like phenotypes. In *FOOD SCIENCE AND BIOTECHNOLOGY*. ISSN 1226-7708, 2018, vol. 27, no. 4, pp. 1185-1192., Registrované v: WOS
  - [1.1] LIU, Na - DONG, Zhonghua - ZHU, Xiaosong - XU, Hongya - ZHAO, Zhongxi. Characterization and protective effect of *Polygonatum sibiricum* polysaccharide against

cyclophosphamide-induced immunosuppression in Balb/c mice. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 796-802., Registrované v: WOS

7. [1.1] MALINOWSKA, Eliza - KLIMASZEWSKA, Marzenna - STRACZEK, Tomasz - SCHNEIDER, Krystyna - KAPUSTA, Czeslaw - PODSADNI, Piotr - LAPIENIS, Grzegorz - DAWIDOWSKI, Maciej - KLEPS, Jerzy - GORSKA, Sandra - PISKLAK, Dariusz M. - TURLO, Jadwiga. Selenized polysaccharides Biosynthesis and structural analysis. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 198, no., pp. 407-417., Registrované v: WOS

8. [1.1] PELTZER, M. A. - SALVAY, A. G. - DELGADO, J. F. - DE LA OSA, O. - WAGNER, J. R. Use of Residual Yeast Cell Wall for New Biobased Materials Production: Effect of Plasticization on Film Properties. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2018, vol. 11, no. 11, pp. 1995-2007., Registrované v: WOS

9. [1.1] PELTZER, Mercedes - DELGADO, Juan F. - SALVAY, Andres G. - WAGNER, Jorge R. beta-Glucan, a Promising Polysaccharide for Bio-based Films Developments for Food Contact Materials and Medical Applications. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2018, vol. 22, no. 12, pp. 1249-1254., Registrované v: WOS

10. [1.1] PENG, Xinwen - XIANG, Zhihua - DU, Fan - TAN, Jiewen - ZHONG, Linxin - SUN, Runcang. Amphiphilic xylan-cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 1, pp. 245-257., Registrované v: WOS

11. [1.1] SKNEPNEK, Aleksandra - PANTIC, Milena - MATIJASEVIC, Danka - MILETIC, Dunja - LEVIC, Steva - NEDOVIC, Viktor - NIKSIC, Miomir. Novel Kombucha Beverage from Lingzhi or Reishi Medicinal Mushroom, *Ganoderma lucidum*, with Antibacterial and Antioxidant Effects. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 3, pp. 243-258., Registrované v: WOS

12. [1.1] WANG, Jinjing - LI, Mengqi - ZHENG, Feiyun - NIU, Chengtuo - LIU, Chunfeng - LI, Qi - SUN, Jinyuan. Cell wall polysaccharides: before and after autolysis of brewer's yeast. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 9, pp., Registrované v: WOS

13. [1.1] XING, Yan - CHEN, Chaonan - SUN, Wenlong - ZHANG, Bowei - SANG, Yuanbin - XIU, Zhilong - DONG, Yuesheng. An environment-friendly approach to isolate and purify glucan from spent cells of recombinant *Pichia pastoris* and the bioactivity characterization of the purified glucan. In *ENGINEERING IN LIFE SCIENCES*. ISSN 1618-0240, 2018, vol. 18, no. 4, pp. 227-235., Registrované v: WOS

ADCA666 ŠANDULA, Jozef - MACHOVÁ, Eva - HRIBALOVA, V. Mitogenic activity of particulate yeast beta-(1,3)-D-glucan and its water-soluble derivatives. In *International Journal of Biological Macromolecules*, 1995, vol. 17, no. 6, p. 323-326. ISSN 0141-8130.

Citácie:

1. [1.1] CEBIN, Aleksandra Vojvodic - PETRAVIC-TOMINAC, Vlatka - DJAKOVIC, Senka - SRECEC, Sinisa - ZECHNER-KRPAN, Vesna - PILJAC-ZEGARAC, Jasenka - ISIKHUEMHEN, Omoanghe S. Polysaccharides and Antioxidants from Culinary-Medicinal White Button Mushroom, *Agaricus bisporus* (Agaricomycetes), Waste Biomass. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 8, pp. 797-808., Registrované v: WOS

2. [1.1] TAGHAVI, Mehdi - MORTAZ, Esmaeil - KHOSRAVI, Alireza - VAHEDI, Ghasem - FOLKERTS, Gert - VARAHRAM, Mohammad - KAZEMPOUR-DIZAJI, Mehdi - GARSEN, Johan - ADCOCK, Ian M. Zymosan attenuates melanoma growth progression, increases splenocyte proliferation and induces TLR-2/4 and TNF-alpha expression in mice. In *JOURNAL OF INFLAMMATION-LONDON*. ISSN 1476-9255, 2018, vol. 15, no., pp., Registrované v: WOS

3. [1.2] FRIOUI, Mohamed - SHAMTSYAN, Mark - ZHILNIKOVA, Natalia A. Development of new methods for isolation of mushroom beta-glucans for the use in the food industry and their comparative evaluation. In *Journal of Hygienic Engineering and Design*, 2018-01-01, 25, pp. 107-111., Registrované v: SCOPUS

ADCA667 ŠANDULA, Jozef - MERKEL, M. Chemical structure of *Candida albicans*. In *Bulletin de l'Académie Polonaise des Sciences: Serie des Sciences Biologiques*, 1965, vol. 13, p. 463-468.

Citácie:

1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida* adherence to epithelial cells. In *Candida Adherence to Epithelial Cells*, 2018-01-01, pp. 1-270., Registrované v: SCOPUS

ADCA668 ŠEĎČOVIČOVÁ, Jana, Blahutová - FILIP, Jaroslav - GEMEINER, Peter - VIKARTOVSKÁ, Alica, Welwardová - PĀTOPRSTÝ, Vladimír - TKÁČ, Ján. High performance microbial 3-D bionanocomposite as a bioanode for a mediated biosensor device. In *Electrochemistry Communications*, 2011, vol. 13, p. 966-968. (2010: 4.282 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1388-2481.



## Citácie:

1. [1.1] NAKAMURA, Hideaki. Current status of water environment and their microbial biosensor techniques Part II: Recent trends in microbial biosensor development. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 17, pp. 3967-3989., Registrované v: WOS

2. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS

ADCA669 ŠEFČOVIČOVÁ, Jana, Blahutová - FILIP, Jaroslav - MASTIHUBA, Vladimír - GEMEINER, Peter - TKÁČ, Ján. Analysis of ethanol in fermentation samples by a robust nanocomposite-based microbial biosensors. In *Biotechnology Letters*, 2012, vol. 34, p. 1033-1039. (2011: 1.683 - IF, 0.722 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0141-5492.

## Citácie:

1. [1.1] NAKAMURA, Hideaki. Current status of water environment and their microbial biosensor techniques Part II: Recent trends in microbial biosensor development. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 17, pp. 3967-3989., Registrované v: WOS

ADCA670 ŠEFČOVIČOVÁ, Jana, Blahutová - VIKARTOVSKÁ, Alica, Welwardová - PÄTOPRSTÝ, Vladimír - MAGDOLEN, Peter - KATRLÍK, Jaroslav - TKÁČ, Ján - GEMEINER, Peter. Off-line FIA monitoring of D-doritol consumption during L-sorbose production using a sorbitol biosensor. Vladimír Pätoprstý. In *Analytica Chimica Acta*, 2009, vol.644, pp. 68-71.

## Citácie:

1. [1.1] SCOGNAMIGLIO, Viviana - ANTONACCI, Amina - LAMBREVA, Maya D. - ARDUINI, Fabiana - PALLESCHI, Giuseppe - LITESCU, Simona C. - JOHANNINGMEIER, Udo - REA, Giuseppina. Application of Biosensors for Food Analysis. In *FOOD SAFETY: INNOVATIVE ANALYTICAL TOOLS FOR SAFETY ASSESSMENT*, 2017, vol., no., pp. 395-434., Registrované v: WOS

ADCA671 ŠESTÁK, Sergej - FARKAŠ, Vladimír. Metabolic regulation of endoglucanase synthesis in *Trichoderma reesei*-participation of cyclic AMP and glucose-6-phosphate. In *Canadian journal of microbiology* : revue canadienne de microbiologie, 1993, vol. 39, p. 342-347. ISSN 0008-4166.

## Citácie:

1. [1.1] DE PAULA, Renato Graciano - CAMPOS ANTONIETO, Amanda Cristina - COSTA RIBEIRO, Liliane Fraga - CARRARO, Claudia Batista - VIEIRA NOGUEIRA, Karoline Maria - BORGES LOPES, Douglas Christian - SILVA, Alinne Costa - ZERBINI, Mariana Taise - PEDERSOLI, Wellington Ramos - COSTA, Mariana do Nascimento - SILVA, Roberto Nascimento. New Genomic Approaches to Enhance Biomass Degradation by the Industrial Fungus *Trichoderma reesei*. In *INTERNATIONAL JOURNAL OF GENOMICS*. ISSN 2314-436X, 2018, vol., no., pp., Registrované v: WOS

ADCA672 ŠESTÁK, Sergej - HAGEN, I. - TANNER, W. - STRAHL, S. Scw10p, a cell-wall glucanase/transglucosidase important for cell-wall stability in *Saccharomyces cerevisiae*. In *Microbiology-SGM*, 2004, vol. 150, pp. 3197-3208. ISSN 1350-0872 (Print).

## Citácie:

1. [1.1] ALVES, S. L. - THEVELEIN, J. M. - STAMBUK, B. U. Extracellular maltotriose hydrolysis by *Saccharomyces cerevisiae* cells lacking the AGT1 permease. In *LETTERS IN APPLIED MICROBIOLOGY*. ISSN 0266-8254, 2018, vol. 67, no. 4, pp. 377-383., Registrované v: WOS

2. [1.1] MILLET, Nicolas - LATGE, Jean-Paul - MOUYN, Isabelle. Members of Glycosyl-Hydrolase Family 17 of *A. fumigatus* Differentially Affect Morphogenesis. In *JOURNAL OF FUNGI*, 2018, vol. 4, no. 1, pp., Registrované v: WOS

ADCA673 ŠESTÁK, Sergej - BELLA, Maroš - KLUNDA, Tomáš - GURSKÁ, Soňa - DŽUBÁK, Petr - WOLS, Florian - WILSON, Iain B.H. - SLÁDEK, Vladimír - HAJDÚCH, Marián - POLÁKOVÁ, Monika\*\* - KÓŇA, Juraj\*\*. N-benzyl substitution of polyhydroxypyrrolidines: The way to selective inhibitors of Golgi alfa-mannosidase II. In *ChemMedChem*, 2018, vol. 13, p. 373-383. (2017: 3.009 - IF, Q2 - JCR, 1.137 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1860-7179.

## Citácie:

1. [1.1] KOYAMA, Ryosuke - HAKAMATA, Wataru - HIRANO, Takako - NISHIO, Toshiyuki. Identification of Small-Molecule Inhibitors of Human Golgi Mannosidase via a Drug Repositioning Screen. In *CHEMICAL & PHARMACEUTICAL BULLETIN*. ISSN 0009-2363, 2018, vol. 66, no. 6, pp. 678-681., Registrované v: WOS

ADCA674 ŠIKL, D. - MASLER, Ladislav - BAUER, Štefan - ŠANDULA, Jozef - TOMŠÍKOVÁ, A. - ZAVÁZAL, V. Allergen activity of the polysaccharide-protein complex of candida. In *Zeitschrift fur Immunitatsforschung, Allergie und klinische Immunologie*, 1969, vol. 138, p. 207-216.



- Citácie:
- [1.1] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS*
- ADCA675 ŠIKL, J. - MASLER, Ladislav - BAUER, Štefan. Mannan from the extracellular surface of *Candida albicans* Berkhout. In *Experientia*, 1964, vol. 20, p. 456. ISSN 0014-4754.
- Citácie:
- [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. *Candida adherence to epithelial cells. In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS*
- ADCA676 ŠIMKOVIČ, Ivan - CSOMOROVÁ, Katarína. Thermogravimetric analysis of agricultural residues: Oxygen effect and environmental impact. In *Journal of Applied Polymer Science*, 2006, vol. 100, no. 2, p. 1318-1322. (2005: 1.072 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0021-8995.
- Citácie:
- [1.1] ELYOUNSSI, K. - VOLLE, G. - EL HAMIDI, A. - BLIN, J. *Yield and quality of charcoals from olive mill residues and its stone and pulp fractions: An enhanced comparative study. In INTERNATIONAL JOURNAL OF GREEN ENERGY. ISSN 1543-5075, 2018, vol. 15, no. 8, p. 489-495., Registrované v: WOS*
- ADCA677 ŠIMKOVIČ, Ivan - HRICOVÍNI, Miloš - ŠOLTĚS, Ladislav - MENDICHI, Raniero - COSENTINO, C. Preparation of water-soluble/insoluble derivatives of hyaluronic acid by cross-linking with epichlorohydrin in aqueous NaOH/NH<sub>4</sub>OH solution. In *Carbohydrate Polymers*, 2000, vol. 41, p. 9-14. (1999: 0.987 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.2] SHI, S. *Synergistic Active Targeting to B16F10 Tumors by αvβ3/CD44-Targeted Nanoparticles Loaded with Docetaxel. (Book Chapter). In METHODS IN PHARMACOLOGY AND TOXICOLOGY. Book series. ISSN 1557-2153, 2018, no. 9781493974436 p. 207-223., Registrované v: SCOPUS*
- ADCA678 ŠIMKOVIČ, Ivan. What could be greener than composites made from polysaccharides? In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2008, vol. 74, p. 759-762. ISSN 0144-8617.
- Citácie:
- [1.1] CHEN, Jin - XIE, Fengwei - LI, Xiaoxi - CHEN, Ling. *Ionic liquids for the preparation of biopolymer materials for drug/gene delivery: a review. In GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 18, pp. 4169-4200., Registrované v: WOS*
  - [1.1] HUSSAIN, Imtiaz - SAYED, Sayed Mir - LIU, Shunli - ODERINDE, Olayinka - YAO, Fang - FU, Guodong. *Glycogen-based self-healing hydrogels with ultra-stretchable, flexible, and enhanced mechanical properties via sacrificial bond interactions. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 648-658., Registrované v: WOS*
  - [1.1] RAAFAT, Amany Ismael - ABD-ALLAH, Wesam Mohamed. *In vitro apatite forming ability and ketoprofen release of radiation synthesized (gelatin-polyvinyl alcohol)/bioglass composite scaffolds for bone tissue regeneration. In POLYMER COMPOSITES. ISSN 0272-8397, 2018, vol. 39, no. 3, pp. 606-615., Registrované v: WOS*
  - [1.2] PENG, Huafeng - WANG, Shaopeng - XU, Hongyao - DAI, Guoliang. *Preparations, properties, and formation mechanism of novel cellulose hydrogel membrane based on ionic liquid. In Journal of Applied Polymer Science. ISSN 00218995, 2018-02-15, 135, 7, pp., Registrované v: SCOPUS*
- ADCA679 ŠIMKOVIČ, Ivan - MARTVOŇOVÁ, H. - MANÍKOVÁ, D. - GREXA, O. Flame retardance of immobilized silica inside of wood material. In *Journal of Applied Polymer Science*, 2005, vol. 97, p. 1948-1952. (2004: 1.021 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0021-8995.
- Citácie:
- [1.1] GUO, Chuigen - WANG, Shijing - WANG, Qingwen. *Synergistic effect of treatment with disodium octaborate tetrahydrate and guanidyl urea phosphate on flammability of pine wood. In EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS. ISSN 0018-3768, 2018, vol. 76, no. 1, pp. 213-220., Registrované v: WOS*
  - [1.1] HAN, Xiaoshuai - ZHANG, Qinqin - YIN, Yihui - PU, Junwen. *Fire retardancy of graphene oxide/wood composite (GOW) prepared by a vacuum-pulse dipping technique. In HOLZFORSCHUNG. ISSN 0018-3830, 2018, vol. 72, no. 5, pp. 375-378., Registrované v: WOS*
  - [1.1] RAHMAN, M. R. - LAI, J. C. H. *Introduction to Reinforcing Potential of Various Clay and Monomers Dispersed Wood Nanocomposites'. In WOOD POLYMER NANOCOMPOSITES: CHEMICAL MODIFICATIONS, PROPERTIES AND SUSTAINABLE APPLICATIONS. ISSN 1612-1317, 2018, vol., no., pp. 1-36., Registrované v: WOS*
  - [1.1] WANG, Tiansheng - LIU, Tao - MA, Tongtong - LI, Liping - WANG, Qingwen - GUO, Chuigen. *Study on degradation of phosphorus and nitrogen composite UV-cured flame retardant coating on wood surface. In PROGRESS IN ORGANIC COATINGS. ISSN 0300-9440, 2018, vol.*

- 124, no., pp. 240-248., Registrované v: WOS  
 5. [1.1] WEN, Gang - GUO, ZhiGuang. Nonflammable superhydrophobic paper with biomimetic layered structure exhibiting boiling-water resistance and repairable properties for emulsion separation. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, 2018, vol. 6, no. 16, pp. 7042-7052., Registrované v: WOS
- ADCA680 ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Positively and negatively charged xylan films. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2011, vol. 83, p. 769-775. (2010: 3.463 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0144-8617.  
 Citácie:  
 1. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
- ADCA681 ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Xylan sulphate films. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2011, vol. 86, p. 214-218. (2010: 3.463 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0144-8617.  
 Citácie:  
 1. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS  
 2. [1.1] LIU, Zhongming - XU, Dingding - KONG, Fangong - WANG, Shoujuan - YANG, Guihua - FATEHI, Pedram. Preparation and Application of Sulfated Xylan as a Flocculant for Dye Solution. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 2, pp. 529-536., Registrované v: WOS
- ADCA682 ŠIMKOVIC, Ivan. Unexplored possibilities of all-polysaccharide composites. In Carbohydrate Polymers, 2013, vol. 95, p. 697-715. (2012: 3.479 - IF, 1.409 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0144-8617.  
 Citácie:  
 1. [1.1] BOCHEK, A. M. - SHEVCHUK, I. L. - GAVRILOVA, I. I. - LEBEDEVA, M. F. - LAVRENT'EV, V. K. - PANARIN, E. F. Properties of Composite Films of Hydroxyethyl Cellulose and Hydroxypropyl Cellulose with Poly-N-methyl-N-vinylacetamide. In POLYMER SCIENCE SERIES A. ISSN 0965-545X, 2018, vol. 60, no. 6, pp. 788-795., Registrované v: WOS  
 2. [1.1] BOCHEK, A. M. - SHEVCHUK, I. L. Properties of Aqueous Solutions of O,N-Carboxymethyl Chitosan with Various Additives. In FIBRE CHEMISTRY. ISSN 0015-0541, 2018, vol. 50, no. 3, pp. 193-196., Registrované v: WOS  
 3. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS  
 4. [1.1] FERNANDES, Clara - ACHARYA, Pratap Chandra - BHATT, Shikha. Preparation of Lauroyl Grafted Alginate-Psyllium Husk Gel Composite Film with Enhanced Physicochemical, Mechanical and Antimicrobial Properties. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2018, vol. 8, no., pp., Registrované v: WOS  
 5. [1.1] KARARNANOS, Nikos K. - PIPERIGKOU, Zoi - THEOCHARIS, Achilleas D. - WATANABE, Hideto - FRANCHI, Marco - BAUD, Stephanie - BREZILLON, Stephane - GOETTE, Martin - PASSI, Alberto - VIGETTI, Davide - RICARD-BLUM, Sylvie - SANDERSON, Ralph D. - NEILL, Thomas - IOZZO, Renato V. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 18, pp. 9152-9232., Registrované v: WOS  
 6. [1.1] LI, Jinyang - NAWAZ, Haq - WU, Jin - ZHANG, Jinming - WAN, Jiqiang - MI, Qinyong - YU, Jian - ZHANG, Jun. All-cellulose composites based on the self-reinforced effect. In COMPOSITES COMMUNICATIONS. ISSN 2452-2139, 2018, vol. 9, no., pp. 42-53., Registrované v: WOS  
 7. [1.1] MARCUELLO, Carlos - FOULON, Laurence - CHABBERT, Brigitte - MOLINARI, Michael - AGUIE-BEGHIN, Veronique. Langmuir-Blodgett Procedure to Precisely Control the Coverage of Functionalized AFM Cantilevers for SMFS Measurements: Application with Cellulose Nanocrystals. In LANGMUIR. ISSN 0743-7463, 2018, vol. 34, no. 32, pp. 9376-9386., Registrované v: WOS  
 8. [1.1] PACHECO, Daniela P. - MARCELLO, Elena - BLOISE, Nora - SACCHETTI, Alessandro - BRENNIA, Elisabetta - VISAI, Livia - PETRINI, Paola. Design of Multifunctional Polysaccharides for Biomedical Applications: A Critical Review. In CURRENT ORGANIC

- CHEMISTRY. ISSN 1385-2728, 2018, vol. 22, no. 12, pp. 1222-1236., Registrované v: WOS
9. [1.1] SUN, Haitao - SHAO, Xinru - JIANG, Ruiping - SHEN, Zhimin - MA, Zhongsu. Mechanical and barrier properties of corn distarch phosphate-zein bilayer films by thermocompression. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 118, no., pp. 2076-2081., Registrované v: WOS
10. [1.2] CHERNOVA, V. V. - VALIEV, D. R. - BAZUNOVA, M. V. - KULISH, E. I. Features of the Rheological Behavior of Polymer-Colloidal Dispersions Based on a Sodium Salt of Carboxymethyl Cellulose and Silver Iodide Sols. In Russian Journal of Physical Chemistry B. ISSN 19907931, 2018-07-01, 12, 4, pp. 701-708., Registrované v: SCOPUS
11. [1.2] RÄTTÖ, Peter - DAHLMAN, Olof - JUNEL, Kristina. Pilot coating with a hemicellulose-based barrier. In Paper Conference and Trade Show, PaperCon 2018, 2018-01-01, 1, pp. 403-412., Registrované v: SCOPUS
- ADCA683 ŠIMKOVIC, Ivan - ALFOLDI, Juraj - SCHULTEN, H.R. Effect of pretreatment on pyrolysis-field ionization mass spectrometric data of (4-O-methyl-D-glucurono)-D-xylan from beech wood. In Biomass and Bioenergy, 1993, vol. 4, p. 373-378. ISSN 0961-9534.
- Citácie:
1. [1.2] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A mechanistic model of fast pyrolysis of hemicellulose. In Energy and Environmental Science. ISSN 17545692, 2018-05-01, 11, 5, pp. 1240-1260., Registrované v: SCOPUS
- ADCA684 ŠIMKOVIC, Ivan - JAKAB, E. Thermogravimetry/mass spectrometry study of weakly basic starch-based ion exchanger. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2001, vol. 45, p. 53-59. (2000: 1.184 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] GLADYSZ-PLASKA, A. - LIPKE, A. - STERNIK, D. - TRYTEK, M. - MAJDAN, M. Spectroscopic, thermal and equilibrium characterization of U(VI) ions sorption on inulin in the presence of phosphates. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, 2018, vol. 1166, no., pp. 169-182., Registrované v: WOS
2. [1.1] OJOGBO, Ewomazino - BLANCHARD, Rachel - MEKONNEN, Tizazu. Hydrophobic and Melt Processable Starch-Laurate Esters: Synthesis, Structure-Property Correlations. In JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY. ISSN 0887-624X, 2018, vol. 56, no. 23, pp. 2611-2622., Registrované v: WOS
- ADCA685 ŠIMKOVIC, Ivan - DLAPA, P. - DOERR, S.H. - MATAIX-SOLERA, J. - SASINKOVÁ, Vlasta. Thermal destruction of soil water repellency and associated changes to soil organic matters as observed by FTIR spectroscopy. In CATENA, 2008, vol.74, p. 205-211. ISSN 0341-8162.
- Citácie:
1. [1.1] CHEN, Jingjing - SHANG, Chao - EICK, Matthew J. - STEWART, Ryan D. Water Repellency Decreases Vapor Sorption of Clay Minerals. In WATER RESOURCES RESEARCH. ISSN 0043-1397, 2018, vol. 54, no. 9, pp. 6114-6125., Registrované v: WOS
2. [1.1] CHEN, Xi - JIN, Mengcan - ZHANG, Yajie - HU, Jingwei - GAO, Hongjian - CHU, Wenying - MAO, Jingdong - THOMPSON, Michael L. Nitrogen Application Increases Abundance of Recalcitrant Compounds of Soil Organic Matter: A 6-Year Case Study. In SOIL SCIENCE. ISSN 0038-075X, 2018, vol. 183, no. 5, pp. 169-178., Registrované v: WOS
3. [1.1] CHEN, Xi - XU, Yujun - GAO, Hong-jian - MAO, Jingdong - CHU, Wenying - THOMPSON, Michael L. Biochemical stabilization of soil organic matter in straw-amended, anaerobic and aerobic soils. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2018, vol. 625, no., pp. 1065-1073., Registrované v: WOS
4. [1.1] KANIA, M. - GAUTIER, M. - NI, Z. - BONJOUR, E. - GUEGAN, R. - MICHEL, P. - JAME, P. - LIU, J. - GOURDON, R. Analytical indicators to characterize Particulate Organic Matter (POM) and its evolution in French Vertical Flow Constructed Wetlands (VFCWs). In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2018, vol. 622, no., pp. 801-813., Registrované v: WOS
5. [1.1] LIU, Qiyuan - CHEN, Binghui - HADERLEIN, Stefan - GOPALAKRISHNAN, Gnanachandrasamy - ZHOU, Yongzhang. Characteristics and environmental response of secondary minerals in AMD from Dabaoshan Mine, South China. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2018, vol. 155, no., pp. 50-58., Registrované v: WOS
6. [1.1] LOURENCO, S. D. N. - SAULICK, Y. - ZHENG, S. - KANG, H. - LIU, D. - LIN, H. - YAO, T. Soil wettability in ground engineering: fundamentals, methods, and applications. In ACTA GEOTECHNICA. ISSN 1861-1125, 2018, vol. 13, no. 1, pp. 1-14., Registrované v: WOS
- ADCA686 ŠIMKOVIC, Ivan - KELNAR, Ivan - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - MANDALIKA, Anurag - ELDER, Thomas. Carboxymethylated-, hydroxypropylsulfonated- and quaternized xylan derivative films. In Carbohydrate Polymers, 2014, vol. 110, p. 464-471. (2013:



3.916 - IF, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] CHENG, H. N. - FORD, Catrina - KOLPAK, Francis J. - WU, Qinglin. Preparation and Characterization of Xylan Derivatives and Their Blends. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 10, pp. 4114-4123., Registrované v: WOS
2. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS
3. [1.1] LIU, Zhongming - XU, Dingding - KONG, Fangong - WANG, Shoujuan - YANG, Guihua - FATEHI, Pedram. Preparation and Application of Sulfated Xylan as a Flocculant for Dye Solution. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 2, pp. 529-536., Registrované v: WOS
4. [1.1] LIU, Zhongming - XU, Dingding - ZHAO, Xin - XIA, Nannan - YANG, Guihua - FATEHI, Pedram - KONG, Fangong - WANG, Shoujuan. PREPARATION AND APPLICATION OF CARBOXYMETHYLATED XYLAN AS A FLOCCULANT FOR ETHYL VIOLET DYE IN AQUEOUS SYSTEMS. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2018, vol. 38, no. 4, pp. 324-337., Registrované v: WOS
5. [1.1] NAIDU, Darrel Sarvesh - HLANGOTHI, Shanganyane Percy - JOHN, Maya Jacob. Bio-based products from xylan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 179, no., pp. 28-41., Registrované v: WOS

ADCA687 ŠIMKOVIČ, Ivan - LASZLO, J.A. Preparation of ion exchangers from bagasse by crosslinking with epichlorohydrin-imidazole. In Journal of Applied Polymer Science, 1997, vol. 64, p. 2561-2566. (1996: 0.934 - IF, karentované - CCC). (1997 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] OLASEHINDE, Emmanuel F. - ADEGUNLOYE, Ajibola V. - ADEBAYO, Matthew A. - OSHODI, Aladesanmi A. Sequestration of Aqueous Lead(II) Using Modified and Unmodified Red Onion Skin. In ANALYTICAL LETTERS. ISSN 0003-2719, 2018, vol. 51, no. 17, pp. 2708-2730., Registrované v: WOS

ADCA688 ŠIMKOVIČ, Ivan - LASZLO, J.A. - THOMPSON, A.R. Preparation of weakly basic ion exchanger by crosslinking starch with epichlorohydrin in the presence of NH<sub>4</sub>OH. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 1996, vol. 30, p. 25-30. ISSN 0144-8617.

Citácie:

1. [1.1] MEENARATHI, B. - JEYASELVI, J. - SOWMIYA, S. - TUNG, Kuo-Lun - ANBARASAN, R. Synthesis, characterization and drug release activity of poly(epichlorohydrin-g-furoseimide) system. In CHEMICAL PAPERS. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 2987-2996., Registrované v: WOS
2. [1.1] SAHA, Nayan Ranjan - ROY, Indranil - SARKAR, Gunjan - BHATTACHARYYA, Amartya - DAS, Rituparna - RANA, Dipak - BANERJEE, Rajdeb - PAUL, Amal Kanti - MISHRA, Roshnara - CHATTOPADHYAY, Dipankar. Development of active packaging material based on cellulose acetate butyrate/polyethylene glycol/aryl ammonium cation modified clay. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 187, no., pp. 8-18., Registrované v: WOS

ADCA689 ŠIMKOVIČ, Ivan - KELNAR, Ivan - MENDICHI, Raniero - BERTÓK, Tomáš - FILIP, Jaroslav. Composite films prepared from agricultural by-products. In Carbohydrate Polymers, 2017, vol. 156, p. 77-85. (2016: 4.811 - IF, Q1 - JCR, 1.419 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] ALVAREZ, Ana - CACHERO, Sofia - GONZALEZ-SANCHEZ, Carlos - MONTEJO-BERNARDO, Jose - PIZARRO, Consuelo - BUENO, Julio L. Novel method for holocellulose analysis of non-woody biomass wastes. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 189, no., pp. 250-256., Registrované v: WOS
2. [1.1] FAZELI, Mahyar - KELEY, Meysam - BIAZAR, Esmaeil. Preparation and characterization of starch-based composite films reinforced by cellulose nanofibers. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 116, no., pp. 272-280., Registrované v: WOS
3. [1.1] MONTANES, N. - GARCIA-SANOQUERA, D. - SEGUI, V. J. - FENOLLAR, O. - BORONAT, T. Processing and Characterization of Environmentally Friendly Composites from Biobased Polyethylene and Natural Fillers from Thyme Herbs. In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, 2018, vol. 26, no. 3, pp. 1218-1230., Registrované v: WOS

ADCA690 ŠIMKOVIČ, Ivan - MARTVOŇOVÁ, H. - MANIKOVÁ, D. - GREXA, O. Flammability studies of sodium thiosulphate or metabisulphite impregnated wood using cone calorimeter. In Fire and



Materials, 2007, vol. 31, p. 137-145. ISSN 0308-0501.

Citácie:

1. [1.1] GUO, Chuigen - WANG, Shijing - WANG, Qingwen. Synergistic effect of treatment with disodium octaborate tetrahydrate and guanidyl urea phosphate on flammability of pine wood. In EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS. ISSN 0018-3768, 2018, vol. 76, no. 1, pp. 213-220., Registrované v: WOS

ADCA691

ŠIMKOVIC, Ivan - MLYNÁR, Juraj - ALFOLDI, Juraj - MICKO, M.M. New aspects in cationization of lignocellulose materials. 11. Modification of bagasse with quaternary ammonium groups. In Holzforschung, 1990, vol. 44, p. 113-116. ISSN 0018-3830.

Citácie:

1. [1.1] AGUADO, Roberto - MORAL, Ana - TIJERO, Antonio. Cationic fibers from crop residues: Making waste more appealing for papermaking. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2018, vol. 174, no., pp. 1503-1512., Registrované v: WOS  
2. [1.1] PLERMJAI, Kittiya - BOONYARATTANAKALIN, Kanokthip - MEKPRASART, Wanichaya - PAVASUPREE, Sorapong - PHOOHINKONG, Weerachon - PECHARAPA, Wisanu. Extraction and Characterization of Nanocellulose from Sugarcane Bagasse by Ball-milling-assisted Acid Hydrolysis. In INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY OF EMERGING MATERIALS 2018 (STEMA2018). ISSN 0094-243X, 2018, vol. 2010, no., pp., Registrované v: WOS

ADCA692

ŠIMKOVIC, Ivan - ŠURINA, I. - VRIČAN, M. Primary reaction of sucrose thermal degradation. In Journal of Analytical and Applied Pyrolysis, 2003, vol. 70, p. 493-504. ISSN 0165-2370.

Citácie:

1. [1.2] LI, Ying Jie - CAI, Ren Hao - LYU, Ren Jiang - GAO, Li Di - QIN, Shi Li. Preparation and Adsorption of Magnetic Bamboo-like Hollow Carbon Nanofibers. In Rengong Jingti Xuebao/Journal of Synthetic Crystals. ISSN 1000985X, 2018-08-01, 47, 8, pp., Registrované v: SCOPUS  
2. [1.2] YUANITA, L. - WIKANDARI, P. R. - ISNAWATI - SABIWAN, W. B. The effect of storage and boiling time of yacón tubers to SCFA and lactic acid concentrations by bifidobacterium longum reuter ATCC 15707 and lactobacillus acidophilus IFO 13951. In Rasayan Journal of Chemistry. ISSN 09741496, 2018-10-01, 11, 4, pp. 1635-1642., Registrované v: SCOPUS

ADCA693

ŠIMKOVIC, Ivan - TRACZ, Adam - KELNAR, Ivan - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero. Quaternized and sulfated xylan derivative films. In Carbohydrate Polymers, 2014, vol. 99, p. 356-364. (2013: 3.916 - IF, 1.346 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] DIMITRUSEV, N. - ZEMLJIC, L. Fras - SAAKE, B. - STRNAD, S. Study of xylan adsorption onto poly(ethylene terephthalate) using QCM-D. In CELLULOSE. ISSN 0969-0239, 2018, vol. 25, no. 8, pp. 4357-4374., Registrované v: WOS  
2. [1.1] LIU, Zhongming - XU, Dingding - KONG, Fangong - WANG, Shoujuan - YANG, Guihua - FATEHI, Pedram. Preparation and Application of Sulfated Xylan as a Flocculant for Dye Solution. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2018, vol. 34, no. 2, pp. 529-536., Registrované v: WOS

ADCA694

ŠIMKOVIC, Ivan - VARHEGYI, G. - ANTAL, Michael J. - EBRINGEROVÁ, Anna - SZEKELY, T. - SZABO, P. Thermogravimetric mass-spectrometric characterization of the thermal decomposition of (4-O-methyl-D-glucurono)-D-xylan. In Journal of Applied Polymer Science, 1988, vol. 36, p. 721-728. ISSN 0021-8995.

Citácie:

1. [1.1] MOTHE, Cheila G. - DE MIRANDA, Iara C. Decomposition through pyrolysis process of coconut fiber and rice husk and determination of kinetic parameters according isoconversional methods. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2018, vol. 131, no. 1, pp. 601-609., Registrované v: WOS  
2. [1.1] WANG, Jiawei - ASMADI, Mohd - KAWAMOTO, Haruo. The effect of uronic acid moieties on xylan pyrolysis. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2018, vol. 136, no., pp. 215-221., Registrované v: WOS  
3. [1.1] ZHANG, Yue - XU, Xiaoyun - CAO, Lingzhi - OK, Yong Sik - CAO, Xinde. Characterization and quantification of electron donating capacity and its structure dependence in biochar derived from three waste biomasses. In CHEMOSPHERE. ISSN 0045-6535, 2018, vol. 211, no., pp. 1073-1081., Registrované v: WOS

ADCA695

ŠIMKOVIC, Ivan - YADAV, Madhav P. - ZALIBERA, Michal - HICKS, Kevin B. Chemical modification of corn fiber with ion-exchanging groups. Michal Zalibera, Kevin B. Hicks. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2009, vol. 76, s.250-254. (2008: 2.644 - IF). ISSN 0144-8617.

## Citácie:

1. [1.1] BRAZ, Luis - GRENHA, Ana - CORVO, Marta C. - LOURENCO, Joao Paulo - FERREIRA, Domingos - SARMENTO, Bruno - ROSA DA COSTA, Ana M. Synthesis and characterization of Locust Bean Gum derivatives and their application in the production of nanoparticles. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 181, no., pp. 974-985., Registrované v: WOS

ADCA696

ŠIMKOVIC, Ivan - SYNYTSYA, Andriy - UHLIARIKOVÁ, Iveta - ČOPIKOVÁ, J. Amidated pectin derivatives with n-propyl-, 3-aminopropyl-, 3-propanol-or 7-aminoheptyl-substituent. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2009, vol. 76, s. 602-606. (2008: 2.644 - IF). ISSN 0144-8617.

## Citácie:

1. [1.1] RANGELOVA, Nadezhda - ALEKSANDROV, Lyubomir - NENKOVA, Sanchi. Synthesis and characterization of pectin/SiO<sub>2</sub> hybrid materials. In JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. ISSN 0928-0707, 2018, vol. 85, no. 2, pp. 330-339., Registrované v: WOS

ADCA697

ŠIMÚTH, Jozef. Some properties of the main protein of honeybee (Apis mellifera) royal jelly. In Apidologie, 2001, vol. 32, p. 69-80. ISSN 0044-8435.

## Citácie:

1. [1.1] BILAL, Bushra - AZIM, M. Kamran. Nematicidal activity of 'major royal jelly protein' - containing glycoproteins from Acacia honey. In EXPERIMENTAL PARASITOLOGY. ISSN 0014-4894, 2018, vol. 192, no., pp. 52-59., Registrované v: WOS

2. [1.1] BORUTINSKAITE, Veronika - TREIGYTE, Grazina - CEKSTERYTE, Violeta - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. Proteomic identification and enzymatic activity of buckwheat (Fagopyrum esculentum) honey based on different assays. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2018, vol. 57, no. 1, pp. 57-69., Registrované v: WOS

Registrované v: WOS

3. [1.1] BUTTSTEDT, Anja - MURESAN, Carmen I. - LILIE, Hauke - HAUSE, Gerd - IHLING, Christian H. - SCHULZE, Stefan-H. - PIETZSCH, Markus - MORITZ, Robin F. A. How Honeybees Defy Gravity with Royal Jelly to Raise Queens. In CURRENT BIOLOGY. ISSN 0960-9822, 2018, vol. 28, no. 7, pp. 1095-+, Registrované v: WOS

4. [1.1] DEGRANDI-HOFFMAN, Gloria - GAGE, Stephanie L. - CORBY-HARRIS, Vanessa - CARROLL, Mark - CHAMBERS, Mona - GRAHAM, Henry - DEJONG, Emily Watkins - HIDALGO, Geoffrey - CALLE, Samantha - AZZOUZ-OLDEN, Farida - MEADOR, Charlotte - SNYDER, Lucy - ZIOLKOWSKI, Nick. Connecting the nutrient composition of seasonal pollens with changing nutritional needs of honey bee (Apis mellifera L.) colonies. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2018, vol. 109, no., pp. 114-124., Registrované v: WOS

5. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS

6. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS

7. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In NATURE COMMUNICATIONS. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS

8. [1.2] ALU<sup>+</sup>;DATT, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAI DAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In Anticancer plants: Properties and Application, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS

9. [1.2] HADI, Roaa F. - TAIMOOZ, Sulaf Hamid. Effect of aquatic extract of chili pepper and honey extracts on fungus isolated from muscadomestica and some patients. In Plant Archives. ISSN 09725210, 2018-01-01, 18, 1, pp. 775-780., Registrované v: SCOPUS

ADCA698

ŠIMÚTH, Jozef - BÍLIKOVÁ, Katarína - KOVÁČOVÁ, Elena - KUZMOVÁ, Z. - SCHRODER, W. Immunochemical Approach to Detection of Adulteration in Honey: Physiologically Active Royal Jelly Protein Stimulating TNF-alpha Release is a Regular Component of Honey. In Journal of agricultural and food chemistry, 2004, vol. 52, p. 2154-2158. (2003: 2.102 - IF). ISSN 0021-8561.

## Citácie:

1. [1.1] KAWAHATA, Ichiro - XU, Huinan - TAKAHASHI, Michiyo - MURATA, Kiyoshi - HAN,

- Wanying - YAMAGUCHI, Yoshihisa - FUJII, Akira - YAMAGUCHI, Kikuji - YAMAKUNI, Tohru. Royal jelly coordinately enhances hippocampal neuronal expression of somatostatin and neuropeptide Y genes conferring neuronal protection against toxic soluble amyloid-beta oligomers implicated in Alzheimer's disease pathogenesis. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 51, no., pp. 28-38., Registrované v: WOS
2. [1.1] LIN, Na - CHEN, Si - ZHANG, Hong - LI, Junmin - FU, Linglin. Quantification of Major Royal Jelly Protein 1 in Fresh Royal Jelly by Ultraperformance Liquid Chromatography-Tandem Mass Spectrometry. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 5, pp. 1270-1278., Registrované v: WOS
3. [1.1] MURESAN, Carmen I. - SCHIERHORN, Angelika - BUTTSTEDT, Anja. The Fate of Major Royal Jelly Proteins during Proteolytic Digestion in the Human Gastrointestinal Tract. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2018, vol. 66, no. 16, pp. 4164-4170., Registrované v: WOS
4. [1.1] NAILA, Aishath - FLINT, Steve H. - SULAIMAN, A. Z. - AJIT, Azilah - WEEDS, Zuben. Classical and novel approaches to the analysis of honey and detection of adulterants. In *FOOD CONTROL*. ISSN 0956-7135, 2018, vol. 90, no., pp. 152-165., Registrované v: WOS
5. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS
6. [1.1] TIAN, Wenli - LI, Min - GUO, Huiyuan - PENG, Wenjun - XUE, Xiaofeng - HU, Yifan - LIU, Yang - ZHAO, Yazhou - FANG, Xiaoming - WANG, Kai - LI, Xiuting - TONG, Yufeng - CONLON, Michael A. - WU, Wei - REN, Fazheng - CHEN, Zhongzhou. Architecture of the native major royal jelly protein 1 oligomer. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2018, vol. 9, no., pp., Registrované v: WOS
7. [1.2] ALU'JATTI, Muhammad Hussein - RABABAH, Taha - SAKANDAR, Hafiz Arbab - IMRAN, Muhammad - MUSTAFA, Neveen - ALHAMAD, Mohammad Noor - MHAI DAT, Nizar - KUBOW, Stan - TRANCHANT, Carole - AL-TAWAHA, Abdel Rahman - AYADI, Wafa. Fermented food-derived bioactive compounds with anticarcinogenic properties: Fermented royal jelly as a novel source for compounds with health benefits. In *Anticancer plants: Properties and Application*, 2018-06-29, 1, pp. 141-165., Registrované v: SCOPUS
8. [1.2] GU, Hyejung - SONG, In Bong - HAN, Hye Ju - LEE, Na Young - CHA, Ji Yun - SON, Yeon Kyong - KWON, Jungkee. Antioxidant activity of royal jelly hydrolysates obtained by enzymatic treatment. In *Korean Journal for Food Science of Animal Resources*. ISSN 12258563, 2018-02-01, 38, 1, pp. 135-142., Registrované v: SCOPUS

ADCA699 ŠOLTÉS, Ladislav - VALACHOVÁ, Katarína - MENDICHI, Raniero - KOGAN, Grigorij - ARNHOLD, Juergen - GEMEINER, Peter. Solution properties of high-molar-mass hyaluronans: the biopolymer degradation by ascorbate. In *Carbohydrate Research*, 2007, vol. 342, p.1071-1077. (2006: 1.703 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] BORKE, T. - NAJBERG, M. - ILINA, P. - BHATTACHARYA, M. - URTTI, A. - TENHU, H. - HIETALA, S. Hyaluronic Acid Graft Copolymers with Cleavable Arms as Potential Intravitreal Drug Delivery Vehicles. In *MACROMOLECULAR BIOSCIENCE*. ISSN 1616-5187, 2018, vol. 18, no. 1, SI., art. no. 1700200., Registrované v: WOS
2. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA700 ŠOLTÉS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - MACH, Mojmir. Associating hyaluronan derivatives: a novel horizon in viscosupplementation of osteoarthritic joints. In *Chemistry & biodiversity*. - Zürich : Verlag Helvetica Chimica Acta : Wiley VCH Verlag, 2004, vol. 1, iss. 3, p. 468-472. (2004 - Current Contents). ISSN 1612-1872.

Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

ADCA701 ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter - STERN, Robert. Contribution of oxidative-reductive reactions to high-molecular-weight hyaluronan catabolism. In *Chemistry & biodiversity*, 2005, vol. 2, no. 9, p.1242-1245. (2005 - Current Contents). ISSN 1612-1872.



## Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA702

ŠOLTÉS, Ladislav - BREZOVÁ, Vlasta - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter. Degradation of high-molecular-weight hyaluronan by hydrogen peroxide in the presence of cupric ions. In *Carbohydrate Research*, 2006, vol. 341, no. 5, p. 639 - 644. (2005: 1.669 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0008-6215.

## Citácie:

1. [1.1] DIPPONG, T. - TOLOMAN, D. - LEVEI, E.A. - CADAR, O. - MESAROS, A. A possible formation mechanism and photocatalytic properties of CoFe<sub>2</sub>O<sub>4</sub>/PVA-SiO<sub>2</sub> nanocomposites. In *THERMOCHIMICA ACTA*. ISSN 0040-6031, 2018, vol. 666, p. 103-115., Registrované v: WOS  
 2. [1.1] POPA, A. - STEFAN, M. - TOLOMAN, D. - PANA, O. - MESAROS, A. - LEOSTEAN, C. - MACAVEI, S. - MARINCAS, O. - SUCIU, R. - BARBU-TUDORAN, L. Fe<sub>3</sub>O<sub>4</sub>-TiO<sub>2</sub>: Gd nanoparticles with enhanced photocatalytic activity and magnetic recyclability. In *POWDER TECHNOLOGY*. ISSN 0032-5910, 2018, vol. 325, p. 441-451., Registrované v: WOS  
 3. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA703

ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - BREZOVÁ, Vlasta - SCHILLER, Jürgen - ARNHOLD, Juergen - KOGAN, Grigorij - GEMEINER, Peter. Hyaluronan degradation by copper(II) chloride and ascorbate: rotational viscometric, EPR spin-trapping, and MALDI-TOF mass spectrometric investigations. In *Carbohydrate Research*, 2006, vol. 341, no. 17, p. 2826-2834. (2005: 1.669 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0008-6215.

## Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

ADCA704

ŠOLTÉS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - SCHILLER, Jürgen - STANKOVSKÁ, Monika - AMHOLD, Jürgen. Degradative action of reactive oxygen species on hyaluronan. In *Biomacromolecules* [seriál], 2006, vol. 7, no. 3, p. 659-668. (2005: 3.618 - IF, karentované - CCC). (2006 - Current Contents). ISSN 1525-7797.

## Citácie:

1. [1.1] BAUER, J. - ROTHLEY, M. - SCHMAUS, A. - QUAGLIATA, L. - EHRET, M. - BISKUP, M. - ORIAN-ROUSSEAU, V. - JACKSON, D.G. - PETTIS, R.J. - HARVEY, A. - BRASE, S. - THIELE, W. - SLEEMAN, J.P. TGF beta counteracts LYVE-1-mediated induction of lymphangiogenesis by small hyaluronan oligosaccharides. In *JOURNAL OF MOLECULAR MEDICINE-JMM*. ISSN 0946-2716, 2018, vol. 96, no. 2, p. 199-209., Registrované v: WOS  
 2. [1.1] FALLACARA, A. - BALDINI, E. - MANFREDINI, S. - VERTUANI, S. Hyaluronic Acid in the Third Millennium. In *POLYMERS*. ISSN 2073-4360, 2018, vol. 10, no. 7, art. no. 701., Registrované v: WOS  
 3. [1.1] GEORGE, N. - GELLER, H.M. Extracellular matrix and traumatic brain injury. In *JOURNAL OF NEUROSCIENCE RESEARCH*. ISSN 0360-4012, 2018, vol. 96, no. 4, SI, p. 573-588., Registrované v: WOS  
 4. [1.1] HAMALAINEN, L. - KARKKAINEN, E. - TAKABE, P. - RAUHALA, L. - BART, G. - KARNA, R. - PASONEN-SEPPANEN, S. - OIKARI, S. - TAMMI, M.I. - TAMMI, R.H. Hyaluronan metabolism enhanced during epidermal differentiation is suppressed by vitamin C. In *BRITISH JOURNAL OF DERMATOLOGY*. ISSN 0007-0963, 2018, vol. 179, no. 3, p. 651-661., Registrované v: WOS  
 5. [1.1] HEO, J.H. - HEO, Y. - LEE, H.J. - KIM, M. - SHIN, H.Y. Topical anti-inflammatory and anti-oxidative effects of porcine placenta extracts on 2,4-dinitrochlorobenzene-induced contact dermatitis. In *BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1472-6882, 2018, vol. 18, art. no. 331., Registrované v: WOS  
 6. [1.1] HUANG, T.L. - YANG, C.H. - YANAI, G. - LIAO, J.Y. - SUMI, S. - YANG, K.C. Synergistic effect of l-ascorbic acid and hyaluronic acid on the expressions of matrix metalloproteinase-3 and -9 in human chondrocytes. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS*. ISSN 1552-4973, 2018, vol. 106, no. 5, p. 1809-1817., Registrované



v: WOS

7. [1.1] KARAMANOS, N.K. - PIPERIGKOU, Z. - THEOCHARIS, A.D. - WATANABE, H. - FRANCHI, M. - BAUD, S. - BREZILLON, S. - GOTTE, M. - PASSI, A. - VIGETTI, D. - RICARD-BLUM, S. - SANDERSON, R.D. - NEILL, T. - IOZZO, R.V. *Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 18, p. 9152-9232., Registrované v: WOS
8. [1.1] MARELLA, M. - JADIN, L. - KELLER, G.A. - SUGARMAN, B.J. - FROST, G.I. - SHEPARD, H.M. *KIAA1199 expression and hyaluronan degradation colocalize in multiple sclerosis lesions*. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 12, p. 958-967., Registrované v: WOS
9. [1.1] OKADA, Y. - MAETA, N. - NAKAYAMA, K. - KAMIYA, H. *TiO<sub>2</sub> Photocatalysis in Aromatic "Redox Tag"-Guided Intermolecular Formal [2+2] Cycloadditions*. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 9, p. 4948-4962., Registrované v: WOS
10. [1.1] SIEVE, I. - MUNSTER-KUHNEL, A.K. - HILFIKER-KLEINER, D. *Regulation and function of endothelial glycocalyx layer in vascular diseases*. In *VASCULAR PHARMACOLOGY*. ISSN 1537-1891, 2018, vol. 100, p. 26-33., Registrované v: WOS
11. [1.1] XU, L. - ZHAO, M. - ZHANG, H. - GAO, W. - GUO, Z. - ZHANG, X. - ZHANG, J. - CAO, J. - PU, Y. - HE, B. *Cinnamaldehyde-Based Poly(ester-thioacetal) To Generate Reactive Oxygen Species for Fabricating Reactive Oxygen Species-Responsive Nanoparticles*. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2018, vol. 19, no. 12, p. 4658-4667., Registrované v: WOS
12. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. *Hyaluronan: Biological function and medical applications. (Book Chapter 10)*. In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

ADCA705

ŠPÁNIKOVÁ, Silvia - BIELY, Peter. *Glucuronoyl esterase - Novel carbohydrate produced by Schizophyllum commune*. In *FEBS Letters*, 2006, vol. 580, p. 4597-4601. ISSN 1873-3468.

Citácie:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. *Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. *Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization*. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
3. [1.1] EDUARDO TOVAR-HERRERA, Omar - MAYREL MARTHA-PAZ, Adriana - PEREZ-LLANO, Yordanis - ARANDA, Elisabet - ENRIQUE TACORONTE-MORALES, Juan - TERESA PEDROSO-CABRERA, Maria - AREVALO-NINO, Katiushka - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon. *Schizophyllum commune: An unexploited source for lignocellulose degrading enzymes*. In *MICROBIOLOGYOPEN*. ISSN 2045-8827, 2018, vol. 7, no. 3, pp., Registrované v: WOS
4. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. *A novel glucuronoyl esterase from Aspergillus fumigatus-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
5. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. *Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review*. In *BIORESOURCES AND BIOPROCESSING*, 2018, vol. 5, no., pp., Registrované v: WOS
6. [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. *Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from Ceriporiopsis subvermisporea and Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
7. [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. *The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS

8. [1.2] CEBALLOS, Ruben Michael. *Bioethanol and natural resources: Substrates, chemistry and engineered systems*. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS
9. [1.2] CHO, Dong Hwa - LEE, Seuk Ki - PARK, Jiyoung - PARK, Hye Young - CHOI, Hye Sun - CHOI, Induck - HAN, Sang Ik - CHUNG, Hyun Jung - JEONG, Deyun - OH, Sea Kwan. *Effect of cell wall degrading enzyme treatment on the phenolic content and antioxidant activity of brown rice*. In *Journal of the Korean Society of Food Science and Nutrition*. ISSN 12263311, 2018-06-01, 47, 6, pp. 605-611., Registrované v: SCOPUS
- ADCA706 ŠPÁNIKOVÁ, Silvia - POLÁKOVÁ, Monika - JONIAK, Dušan - HIRSCH, Ján - BIELY, Peter. *Synthetic esters recognized by glucuronoyl esterase from Schizophyllum commune*. In *Archives of Microbiology*, 2007, vol. 188, p. 185-189. (2006: 2.135 - IF). ISSN 0302-8933.
- Citácie:
- [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. *Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
  - [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. *A novel glucuronoyl esterase from Aspergillus fumigatus-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
  - [1.1] LIN, Meng-I - HIYAMA, Akiho - KONDO, Keiko - NAGATA, Takashi - KATAHIRA, Masato. *Classification of fungal glucuronoyl esterases (FGEs) and characterization of two new FGEs from Ceriporiopsis subvermisporea and Pleurotus eryngii*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 22, pp. 9635-9645., Registrované v: WOS
  - [1.1] MOSBECH, Caroline - HOLCK, Jesper - MEYER, Anne S. - AGGER, Jane Wittrup. *The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch*. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS
- ADCA707 ŠROBÁROVÁ, Antónia - DA SILVA, J. A. T. - KOGAN, Grigorij - RITIENI, Alberto - SANTINI, Antonello. *Beauvericin decreases cell viability of wheat*. In *Chemistry & Biodiversity*, 2009, vol. 6, no. 8, p. 1208-1215. (2008: 1.659 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1612-1872.
- Citácie:
- [1.1] BHANDARI, D.R. - WANG, Q. - LI, B. - FRIEDT, W. - ROMPP, A. - SPENGLER, B. - GOTTWALD, S. *Histology-guided high-resolution AP-SMALDI mass spectrometry imaging of wheat-Fusarium graminearum interaction at the root-shoot junction*. In *PLANT METHODS*. ISSN 1746-4811, NOV 17 2018, vol. 14., Registrované v: WOS
  - [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. *A novel glucuronoyl esterase from Aspergillus fumigatus-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
- ADCA708 ŠTEFUCA, V. - ČIPÁKOVÁ, Ingrid - GEMEINER, Peter. *Investigation of immobilized glucoamylase kinetics by flow calorimetry*. In *Thermochimica Acta*, 2001, vol. 378, p. 79-85. ISSN 0040-6031.
- Citácie:
- [1.1] ZHENG, Yihua - LIU, Jun. *Recirculating Flow Injection Calorimetric Biosensor and Its Improved Performance Evaluation for Dichlorvos Detection*. In *SENSORS AND MATERIALS*. ISSN 0914-4935, 2018, vol. 30, no. 1, pp. 89-99., Registrované v: WOS
- ADCA709 ŠTEFUCA, V. - VIKARTOVSKÁ, Alica, Welwardová - GEMEINER, Peter. *Flow microcalorimeter auto-calibration for the analysis of immobilized enzyme kinetics*. In *Analytica Chimica Acta*, 1997, vol. 355, p. 63-67. ISSN 0003-2670.
- Citácie:
- [1.1] ZHENG, Yihua - LIU, Jun. *Recirculating Flow Injection Calorimetric Biosensor and Its Improved Performance Evaluation for Dichlorvos Detection*. In *SENSORS AND MATERIALS*. ISSN 0914-4935, 2018, vol. 30, no. 1, pp. 89-99., Registrované v: WOS
- ADCA710 ŠUCHOVÁ, Katarína, Kolenová - VRŠANSKÁ, Mária - BIELY, Peter. *Mode of action of endo-β-1,4-xylanases of families 10 and 11 on acidic xylooligosaccharides*. In *Journal of Biotechnology*, 2006, vol. 121, p. 338-345. ISSN 0168-1656.
- Citácie:
- [1.1] LONG, Lingfeng - TIAN, Dong - ZHAI, Rui - LI, Xun - ZHANG, Yu - HU, Jinguang - WANG, Fei - SADDLER, Jack. *Thermostable xylanase-aided two-stage hydrolysis approach*

- enhances sugar release of pretreated lignocellulosic biomass. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2018, vol. 257, no., pp. 334-338., Registrované v: WOS
2. [1.1] MADAN, Bharat - LEE, Sun-Gu. Sequence and Structural Features of Subsite Residues in GH10 and GH11 Xylanases. In *BIOTECHNOLOGY AND BIOPROCESS ENGINEERING*. ISSN 1226-8372, 2018, vol. 23, no. 3, pp. 311-318., Registrované v: WOS
3. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
4. [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. - DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS
5. [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
6. [1.1] YOU, Shuai - CHEN, Chun-Chi - TU, Tao - WANG, Xiaoyu - MA, Rui - CAI, Hui-yi - GUO, Rey-Ting - LUO, Hui-ying - YAO, Bin. Insight into the functional roles of Glu175 in the hyperthermostable xylanase XYL10C-Delta N through structural analysis and site-saturation mutagenesis. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
7. [1.1] ZHOU, Tao - XUE, Yemin - REN, Fengjiao - DONG, Yuanyuan. Antioxidant activity of xylooligosaccharides prepared from *Thermotoga maritima* using recombinant enzyme cocktail of beta-xylanase and alpha-glucuronidase. In *JOURNAL OF CARBOHYDRATE CHEMISTRY*. ISSN 0732-8303, 2018, vol. 37, no. 4, pp. 210-224., Registrované v: WOS
8. [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS

ADCA711 ŠUCHOVÁ, Katarína, Kolenová - VRŠANSKÁ, Mária - BIELY, Peter. Purification and characterization of two minor endo-beta-1,4-xylanases of *Schizophyllum commune*. In *Enzyme and Microbial Technology*, 2005, vol. 36, p. 903-910. ISSN 0141-0229.

Citácie:

1. [1.1] EDUARDO TOVAR-HERRERA, Omar - MAYREL MARTHA-PAZ, Adriana - PEREZ-LLANO, Yordanis - ARANDA, Elisabet - ENRIQUE TACORONTE-MORALES, Juan - TERESA PEDROSO-CABRERA, Maria - AREVALO-NINO, Katiushka - LUIS FOLCH-MALLOL, Jorge - ALBERTO BATISTA-GARCIA, Ramon. *Schizophyllum commune*: An unexploited source for lignocellulose degrading enzymes. In *MICROBIOLOGYOPEN*. ISSN 2045-8827, 2018, vol. 7, no. 3, pp., Registrované v: WOS
2. [1.1] POLI, Anna - VIZZINI, Alfredo - PRIGIONE, Valeria - VARESE, Giovanna Cristina. Basidiomycota isolated from the Mediterranean Sea Phylogeny and putative ecological roles. In *FUNGAL ECOLOGY*. ISSN 1754-5048, 2018, vol. 36, no., pp. 51-62., Registrované v: WOS
3. [1.2] GAUTAM, Archana - KUMAR, Amit - BHARTI, Amit Kumar - DUTT, Dharm. Rice straw fermentation by *Schizophyllum commune* ARC-11 to produce high level of xylanase for its application in pre-bleaching. In *Journal of Genetic Engineering and Biotechnology*. ISSN 1687157X, 2018-12-01, 16, 2, pp. 693-701., Registrované v: SCOPUS

ADCA712 ŠUCHOVÁ, Katarína, Kolenová - RYABOVÁ, Olena - VRŠANSKÁ, Mária - BIELY, Peter. Inverting character of family GH115  $\alpha$ -glucuronidases. In *FEBS Letters*, 2010, vol.584, p. 4063-4068. ISSN 1873-3468.

Citácie:

1. [1.1] LI, Zongquan - PAN, Xuejun. Strategies to modify physicochemical properties of hemicelluloses from biorefinery and paper industry for packaging material. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2018, vol. 17, no. 1, pp. 47-69., Registrované v: WOS

ADCA713 ŠUCHOVÁ, Katarína, Kolenová\*\* - KOZMON, Stanislav - PUCHART, Vladimír - MALOVÍKOVÁ, Anna - HOFF, Tine - MORKEBERG KROGH, Kristian B.R. - BIELY, Peter. Glucuronoxylan recognition by GH 30 xylanases: A study with enzyme and substrate variants. In *Archives of Biochemistry and Biophysics*, 2018, vol. 643, p. 42-49. (2017: 3.118 - IF, Q2 - JCR, 1.350 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0003-9861.

Citácie:



1. [1.1] GUO, Yalan - GAO, Zhen - XU, Jiaying - CHANG, Siyuan - WU, Bin - HE, Bingfang. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 377-384., Registrované v: WOS
2. [1.1] KARLSSON, Eva Nordberg - SCHMITZ, Eva - LINARES-PASTEN, Javier A. - ADLERCREUTZ, Patrick. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 21, pp. 9081-9088., Registrované v: WOS
- ADCA714 ŠUNDERIČ, Miloš - HOLAZOVÁ, Alena, Šedivá - ROBAJAC, Dragana - MILJUŠ, Goran - GEMEINER, Peter - NEDIČ, Olgica - KATRLÍK, Jaroslav. Lectin-based protein microarray analysis of differences in serum alpha-2-macroglobulin glycosylation between patients with colorectal cancer and noncancer persons. In *Biotechnology and Applied Biochemistry*, 2016, vol. 63, p. 457-464. (2015: 1.429 - IF, Q3 - JCR, 0.406 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0885-4513.
- Citácie:
1. [1.1] KARABULUT, Mehmet - AFSAR, Cigdem Usul - ALIS, Halil - ORAN, Ebru - KARABULUT, Senem - AKARSU, Cevher - SAHBAZ, Nuri Alper - GUMUSOGLU, Alpen Yahya - BILGIN, Elif - AYKAN, Nuri Faruk. Evaluation of epidermal growth factor receptor serum levels and their association with clinicopathological characteristics in patients with colorectal cancer. In *MOLECULAR AND CLINICAL ONCOLOGY*. ISSN 2049-9450, 2017, vol. 7, no. 5, pp. 787-797., Registrované v: WOS
2. [1.1] LEE, Pey Yee - CHIN, Siok-Fong - LOW, Teck Yew - JAMAL, Rahman. Probing the colorectal cancer proteome for biomarkers: Current status and perspectives. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2018, vol. 187, no., pp. 93-105., Registrované v: WOS
- ADCA715 ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - ŠUTOVSKÝ, J. - FRAŇOVÁ, Soňa - PRÍSENŽŇÁKOVÁ, Ľubica - CAPEK, Peter. Possible mechanisms of dose-dependent cough suppressive effect of *Althaea officinalis* rhamanogalacturonan in guinea pigs test system. J. Šutovský, Soňa Fraňová, Ľubica Prisenžňáková, Peter Capek. In *International Journal of Biological Macromolecules*, 2009, vol.45, pp.27-32. (2008: 1.868 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] ALAMGEER - YOUNIS, Waqas - ASIF, Hira - SHARIF, Amber - RIAZ, Humayun - BUKHARI, Ishfaq Ali - ASSIRI, Asaad Mohamed. Traditional medicinal plants used for respiratory disorders in Pakistan: a review of the ethno-medicinal and pharmacological evidence. In *CHINESE MEDICINE*. ISSN 1749-8546, 2018, vol. 13, no., pp., Registrované v: WOS
2. [1.1] ASNAASHARI, Solmaz - DASTMALCHI, Siavash - JAVADZADEH, Yousef. Gastroprotective effects of herbal medicines (roots). In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2018, vol. 21, no. 1, pp. 901-919., Registrované v: WOS
3. [1.1] MAHBOUBI, Mohaddese. Management of acute cough by *Zataria multiflora* Boiss as an alternative treatment. In *JOURNAL OF INTEGRATIVE MEDICINE-JIM*. ISSN 2095-4964, 2018, vol. 16, no. 1, pp. 20-25., Registrované v: WOS
4. [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In *Zeitschrift für Phytotherapie*. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209., Registrované v: SCOPUS
5. [1.2] MEYGHAN, Narges - MORADI, Pezhman. The effect of nitrogen and phosphorous fertilizers on morphophysiological properties of *Althaea officinalis*. In *Iranian Journal of Plant Physiology*. ISSN 22285512, 2018-06-01, 8, 4, pp. 2563-2571., Registrované v: SCOPUS
6. [1.2] TWAJJ, Baan M. - ALWAN, Adel H. Anti-fungal activity of *Althaea officinalis* L. Tissue culture extracts. In *Plant Archives*. ISSN 09725210, 2018-10-01, 18, 2, pp. 2053-2057., Registrované v: SCOPUS
- ADCA716 ŠUTOVSKÁ, Martina - KOČMÁLOVÁ, Michaela - PAPPOVÁ, Lenka - FRAŇOVÁ, Soňa - CHYBA, Andrej - KOPECKÝ, Jiří - LUKAVSKÝ, Jaromír - CEPÁK, Vladislav - CAPEK, Peter. The chemical profile and pharmacodynamic properties of extracellular *Wolleea saccata* biopolymer. In *International Journal of Biological Macromolecules*, 2017, vol. 103, p. 863-869. (2016: 3.671 - IF, Q1 - JCR, 0.882 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.2] LU, Yu Zhen - XU, Dan Ni - ZHOU, Yi Wei - BAO, Jiang Qiao - LI, Hua Shou - HE, Hong Zhi. Research progress of pharmacological active substances from diazotrophic cyanobacteria. In *Chinese Traditional and Herbal Drugs*. ISSN 02532670, 2018-09-28, 49, 18, pp. 4453-4460., Registrované v: SCOPUS
- ADCA717 ŠUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Antitussive bronchodilatory effect of *Lythrum salicaria* polysaccharide-polyphenolic



conjugate. In *International Journal of Biological Macromolecules*, 2012, vol. 51, p. 794-799. (2011: 2.453 - IF, 0.689 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0141-8130.

Citácie:

1. [1.1] JURECEKOVA, Jana - NOSALOVA, Gabriela - JURECEK, Ludovit - CSOLLEI, Jozef - SIVOVA, Veronika - NOSAL, Slavomir. Antitussive activity of alcoxyphe nyl carbamic acid analogues. In *GENERAL PHYSIOLOGY AND BIOPHYSICS*. ISSN 0231-5882, 2018, vol. 37, no. 3, pp. 337-343., Registrované v: WOS

2. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reiev. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS

3. [1.1] TSIRIGOTIS-MANIECKA, Marta - SZYK-WARSZYNSKA, Lilianna - MICHNA, Aneta - WARSZYNSKI, Piotr - WILK, Kazimiera A. Colloidal characteristics and functionality of rationally designed esculin-loaded hydrogel microcapsules. In *JOURNAL OF COLLOID AND INTERFACE SCIENCE*. ISSN 0021-9797, 2018, vol. 530, no., pp. 444-458., Registrované v: WOS

ADCA718

ŠUTOVSKÁ, Martina - CAPEK, Peter - KAZIMIEROVÁ, Ivana - PAPPOVÁ, Lenka - JOŠKOVÁ, Marta - MATULOVÁ, Mária - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Echinacea complex – chemical view and anti-asthmatic profile. In *Journal of Ethnopharmacology*, 2015, vol. 175, p. 163-171. (2014: 2.998 - IF, Q1 - JCR, 1.205 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0378-8741.

Citácie:

1. [1.1] GULLEDGE, Travis V. - COLLETTE, Nicholas M. - MACKEY, Emily - JOHNSTONE, Stephanie E. - MOAZAMI, Yasamin - TODD, Daniel A. - MOESER, Adam J. - PIERCE, Joshua G. - CECH, Nadja B. - LASTER, Scott M. Mast cell degranulation and calcium influx are inhibited by an Echinacea purpurea extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide. In *JOURNAL OF ETHNOPHARMACOLOGY*. ISSN 0378-8741, 2018, vol. 212, no., pp. 166-174., Registrované v: WOS

2. [1.1] SHARIFI-RAD, Mehdi - MNAYER, Dima - BEZERRA MORAIS-BRAGA, Maria Flaviana - PEREIRA CARNEIRO, Joara Nalyda - BEZERRA, Camila Fonseca - MELO COUTINHO, Henrique Douglas - SALEHI, Bahare - MARTORELL, Miquel - DEL MAR CONTRERAS, Maria - SOLTANI-NEJAD, Azam - HATA URIBE, Yoshie Adriana - YOUSAF, Zubaida - IRITI, Marcello - SHARIFI-RAD, Javad. Echinacea plants as antioxidant and antibacterial agents: From traditional medicine to biotechnological applications. In *PHYTOTHERAPY RESEARCH*. ISSN 0951-418X, 2018, vol. 32, no. 9, pp. 1653-1663., Registrované v: WOS

3. [1.1] WYNENDAELE, Evelien - DE SPIEGELEER, Bart - GEVAERT, Bert - JANSSENS, Yorick - SULEMAN, Sultan - CATTOOR, Steven - SAUNDERS, Jimmy H. - VERYSER, Lieselotte. Regulatory status of N-alkylamide containing health products. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2018, vol. 98, no., pp. 215-223., Registrované v: WOS

ADCA719

ŠUTOVSKÁ, Martina - CAPEK, Peter - KOČMALOVÁ, Michaela - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Characterization and biological activity of Solidago canadensis complex. In *International Journal of Biological Macromolecules*, 2013, vol. 52, p. 192-197. (2012: 2.596 - IF, 0.796 - SJR, karentované - CCC). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

Citácie:

1. [1.1] GEORGIEV, Yordan N. - OGNANOV, Manol H. - DENEV, Petko N. - KRATCHANOVA, Maria G. Perspective Therapeutic Effects of Immunomodulating Acidic Herbal Heteropolysaccharides and Their Complexes in Functional and Dietary Nutrition. In *THERAPEUTIC FOODS*, 2018, vol. 8, no., pp. 285-327., Registrované v: WOS

2. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A reiev. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS

3. [1.1] WOZNIAK, Dorota - SLUSARCZYK, Sylwester - DOMARADZKI, Krzysztof - DRYŚ, Andrzej - MATKOWSKI, Adam. Comparison of Polyphenol Profile and Antimutagenic and Antioxidant Activities in Two Species Used as Source of Solidaginis herba Goldenrod. In *CHEMISTRY & BIODIVERSITY*. ISSN 1612-1872, 2018, vol. 15, no. 4, pp., Registrované v: WOS

ADCA720

ŠUTOVSKÁ, Martina - CAPEK, Peter - KOČMALOVÁ, Mária - PAWLACZYK, Izabela - ZACZYŃSKA, Eva - CZARNY, Anna - UHLIARIKOVÁ, Iveta - GANCARZ, Roman - FRAŇOVÁ, Soňa. Characterization and pharmacodynamic properties of Arnica montana complex. In *International Journal of Biological Macromolecules*, 2014, vol. 69, p. 214-221. (2013: 3.096 - IF, 0.849 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

## Citácie:

1. [1.1] LIU, Jun - BAI, Ruyu - LIU, Yunpeng - ZHANG, Xin - KAN, Juan - JIN, Changhai. Isolation, structural characterization and bioactivities of naturally occurring polysaccharide-polyphenolic conjugates from medicinal plants-A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 107, no., pp. 2242-2250., Registrované v: WOS
  2. [1.1] PAOLO, Bellavite - MARTA, Marzotto - CLARA, Bonafini. Arnica montana experimental studies: confounders and biases? In *JOURNAL OF INTEGRATIVE MEDICINE-JIM*. ISSN 2095-4964, 2018, vol. 16, no. 2, pp. 72-76., Registrované v: WOS
  3. [1.2] SILVA, Edmundo - PEREIRA, Vanessa Fernandes - VASCONCELLOS, Luana Marotta Reis de - OLIVEIRA, Felipe Eduardo de - BRANDÃO, Adriana Aigotti Haberbeck. Quality of bone repair in ovariectomized rats with bone lesions treated with phytotherapeutic and homeopathic Arnica montana. In *Brazilian Dental Science*, 2017-01-01, 20, 1, pp. 25-31., Registrované v: SCOPUS
- ADCA721 ŠVITEL, Juraj - TKÁČ, Ján - VOŠTIAR, I. - NAVRÁTIL, M. - ŠTEFUCA, Vladimír - BUČKO, Marek - GEMEINER, Peter. Gluconobacter in biosensors: applications of whole cells and enzymes isolated from Gluconobacter and Acetobacter to biosensor construction. In *Biotechnology Letters*, 2006, vol. 28, p. 2003-2010. (2006 - Current Contents). ISSN 0141-5492.
- Citácie:
1. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS
- ADCA722 TALÁBA, P. - SROKOVÁ, I. - EBRINGEROVÁ, Anna - HODÚL, P. - MARCINČIN, A. Cellulose-based biodegradable polymeric surfactant. In *Journal of carbohydrate chemistry*, 1997, vol. 16, p. 573-582. ISSN 0732-8303.
- Citácie:
1. [1.1] HEINZE, Thomas - EL SEOUD, Omar A. - KOSCHELLA, Andreas. Etherification of Cellulose. In *CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES*. ISSN 2364-1878, 2018, vol., no., pp. 429-477., Registrované v: WOS
- ADCA723 TAPPINO, Barbara - CHUZHANOVA, Nadia A. - REGIS, Stefano - DARDIS, Andrea - CORSO LINI, Fabio - STROPPIANO, Marina - TONOLI, Emmanuel - BECCARI, Tomasso - MUCHA, Ján - BLANCO, Mariana - SZLAGO, Marina - DI ROCCO, Maja - COOPER, David N. - FILOCAMO, Mirella. Molecular Characterization of 22 Novel UDP-N-Acetylglucosamine-1-Phosphate Transferase  $\alpha$ - and  $\beta$ - Subunit (GNT-PAB) Gene Mutations Causing Mucopolysaccharidosis Types II  $\alpha$ /beta and III  $\alpha$ /beta in 46 Patients. In *Human Mutation*, 2009, vol. 30, e956-E973. (2008: 7.033 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1059-7794.
- Citácie:
1. [1.2] MURPHY, Elaine - WATKINSON, Oliver. Inherited cardiovascular metabolic disorders. In *Cardiovascular Genetics and Genomics: Principles and Clinical Practice*, 2018-01-17, pp. 189-237., Registrované v: SCOPUS
  2. [3.2] Group Author(s). Uniprot Consortium. Q3T906. IN *UniProt Knowledgebase*, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q3T906>, Registrované v: Data Citation Index
- ADCA724 TAYLOR, E.J. - GLOSTER, T.M. - TURKENBURG, J.P. - VINCENT, F. - BRZOZOWSKI, A.M. - DUPONT, C. - SHARECK, F. - CENTENO, M.S.J. - PRATES, J.A.M. - PUCHART, Vladimír - FERREIRA, L.M.A. - FONTES, C.M.G.A. - BIELY, Peter - DAVIES, G.J. Structure and activity of two metal ion-dependent acetylxytan esterases involved in plant cell wall degradation reveals a close similarity to peptidoglycan deacetylases. In *Journal of Biological Chemistry*, 2006, vol. 281, p. 10968-10975. (2005: 5.854 - IF, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0021-9258.
- Citácie:
1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
  2. [1.1] BURGER, Marco - CHORY, Joanne. Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones. In *COMMUNICATIONS BIOLOGY*, 2018, vol. 1, no., pp., Registrované v: WOS
  3. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2018, vol. 79, no.,

pp. 15-26., Registrované v: WOS

4. [1.1] LIU, L. - QU, M. - YANG, J. - YANG, Q. The physiological differentiation along the midgut of *Bombyx mori* inspirations from proteomics and gene expression patterns of the secreted proteins in the ectoperitrophic space. In *INSECT MOLECULAR BIOLOGY*. ISSN 0962-1075, 2018, vol. 27, no. 2, pp. 247-259., Registrované v: WOS

5. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl esterases: Role in cell wall degradation-An overview. In *Trends in Carbohydrate Research*, 2018-01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS

ADCA725

TENKANEN, M. - EIZAGUIRRE, J. - ISONIEMI, R. - FAULDS, C.B. - BIELY, Peter. Comparison of catalytic properties of acetyl xylan esterases from three carbohydrate esterase families. In *ACS Symposium Series 855: Application of Enzymes to Lignocellulosics*. - Washington, DC : American Chemical Society, 2003, p.211-229. ISBN 0-8412-3831-6.

Citácie:

1. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In *JOURNAL OF MOLECULAR GRAPHICS & MODELLING*. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS

ADCA726

TENKANEN, Maija - VRŠANSKÁ, Mária - SIIKA-AHO, Matti - WONG, Dominic W. - PUCHART, Vladimír - PENTILLA, Merja - SALOHEIMO, Markku - BIELY, Peter. Xylanase XYN IV from *Trichoderma reesei* showing exo- and endo-xylanase activity. In *FEBS Journal*, 2013, vol. 280, p. 285-301. (2012: 4.250 - IF, 2.026 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1742-464X.

Citácie:

1. [1.1] ESPINOZA, Karina - EYZAGUIRRE, Jaime. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 468, no., pp. 45-50., Registrované v: WOS

2. [1.1] HIRASAWA, Hiroki - SHIOYA, Koki - FURUKAWA, Takanori - TANI, Shuji - SUMITANI, Jun-ichi - KAWAGUCHI, Takashi - MORIKAWA, Yasushi - SHIDA, Yosuke - OGASAWARA, Wataru. Engineering of the *Trichoderma reesei* xylanase3 promoter for efficient enzyme expression. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 6, pp. 2737-2752., Registrované v: WOS

3. [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS

4. [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS

5. [1.1] MARTINS DE OLIVEIRA, Sandro - MORENO-PEREZ, Sonia - FANCHINI TERRASAN, Cesar Rafael - ROMERO-FERNANDEZ, Maria - VIEIRA, Marcelo Fernandes - GUIBAN, Jose M. - ROCHA-MARTIN, Javier. Covalent immobilization-stabilization of beta-1,4-endoxylanases from *Trichoderma reesei*: Production of xylooligosaccharides. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2018, vol. 64, no., pp. 170-176., Registrované v: WOS

6. [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS

7. [1.2] CEBALLOS, Ruben Michael. Bioethanol and natural resources: Substrates, chemistry and engineered systems. In *Bioethanol and Natural Resources: Substrates, Chemistry and Engineered Systems*, 2017-01-01, pp. 1-202., Registrované v: SCOPUS

ADCA727

TIHLÁRIK, Karol - PAŠTEKA, Mikuláš. Estimation of functional groups and degree of substitution in carboxymethylstarch. In *Chemical Papers - Chemické zvesti*, 1987, vol. 41, p. 703-705. ISSN 0366-6352.

Citácie:

1. [1.1] SAHIN, Umut Kivanc. AN EASY AND ACCURATE METHOD FOR DETERMINING DEGREE OF SUBSTITUTION ON CARBOXYMETHYLATED COTTON FABRIC. In *TEKSTİL VE KONFEKSİYON*. ISSN 1300-3356, 2018, vol. 28, no. 2, pp. 118-124., Registrované v: WOS

ADCA728

TKÁČ, Ján - NAVRÁTIL, M. - ŠTURDÍK, E. - GEMEINER, Peter. Monitoring of dihydroxyacetone



production during oxidation of glycerol by immobilized *Gluconobacter oxydans* cells with an enzyme biosensor. In *Enzyme and Microbial Technology*, 2001, vol. 28, p. 383-388. ISSN 0141-0229.

Citácie:

1. [1.1] AYANKOJO, Akinrinade George - REUT, Jekaterina - OPIK, Andres - TRETJAKOV, Aleksei - SYRITSKI, Vitali. Enhancing binding properties of imprinted polymers for the detection of small molecules. In *PROCEEDINGS OF THE ESTONIAN ACADEMY OF SCIENCES*. ISSN 1736-6046, 2018, vol. 67, no. 2, pp. 138-146., Registrované v: WOS
2. [1.1] KRANZ, Angela - STEINMANN, Andrea - DEGNER, Ursula - MENGUS-KAYA, Aliye - MATAMOUROS, Susana - BOTT, Michael - POLEN, Tino. Global mRNA decay and 23S rRNA fragmentation in *Gluconobacter oxydans* 621H. In *BMC GENOMICS*. ISSN 1471-2164, 2018, vol. 19, no., pp., Registrované v: WOS
3. [1.1] MOTTA, Davide - TRUJILLO, Felipe J. Sanchez - DIMITRATOS, Nikolaos - VILLA, Alberto - PRATI, Laura. An investigation on AuPt and AuPt-Bi on granular carbon as catalysts for the oxidation of glycerol under continuous flow conditions. In *CATALYSIS TODAY*. ISSN 0920-5861, 2018, vol. 308, no., pp. 50-57., Registrované v: WOS

ADCA729

TKÁČ, Ján - RUZGAS, T. Dispersion of single walled carbon nanotubes. Comparison of different dispersing strategies for preparation of modified electrodes toward hydrogen peroxide detection. In *Electrochemistry Communications*, 2006, vol. 8, p. 899-903. ISSN 1388-2481.

Citácie:

1. [1.1] CUI, Shiqiang - GU, Shuqing - DING, Yaping - ZHANG, Jiangjiang - ZHANG, Zhen - HU, Zongqian. Hollow mesoporous CuCo<sub>2</sub>O<sub>4</sub> microspheres derived from metal organic framework: A novel functional materials for simultaneous H<sub>2</sub>O<sub>2</sub> biosensing and glucose biofuel cell. In *TALANTA*. ISSN 0039-9140, 2018, vol. 178, no., pp. 788-795., Registrované v: WOS
2. [1.1] JODAT, Yasamin A. - LOTFI, Parisa - ABADI, Parisa Pour Shahid Saeed - MUN, Ji-Young - SEO, Jungmok - SHIN, Eun Ae - JUNG, Sung Mi - LEE, Chang Kee - SHIN, Su Ryon. pH-Responsive DNA Nanolinker Conjugated Hybrid Materials for Electrochemical Microactuator and Biosensor Applications. In *ACS APPLIED NANO MATERIALS*. ISSN 2574-0970, 2018, vol. 1, no. 12, pp. 6630-6640., Registrované v: WOS
3. [1.1] ZHANG, Wanlong - ZUO, Haibin - ZHANG, Xinru - WANG, Jingsong - GUO, Longfei - PENG, Xing. Preparation of Graphene-Perfluoroalkoxy Composite and Thermal and Mechanical Properties. In *POLYMERS*. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS

ADCA730

TKÁČ, Ján - ŠTURDÍK, E. - GEMEINER, Peter. Novel glucose non-interference biosensor for lactose detection based on galactose oxidase-peroxidase with and without co-immobilised beta-galactosidase. In *Analyst*, 2000, vol. 125, p. 1285-1289. ISSN 0003-2654.

Citácie:

1. [1.1] MAO, Guobin - LIU, Chen - DU, Mingyuan - ZHANG, Yuwei - JI, Xinghu - HE, Zhike. One-pot synthesis of the stable CdZnTeS quantum dots for the rapid and sensitive detection of copper-activated enzyme. In *TALANTA*. ISSN 0039-9140, 2018, vol. 185, no., pp. 123-131., Registrované v: WOS

ADCA731

TKÁČ, Ján - GEMEINER, Peter - ŠTURDÍK, E. Rapid and sensitive galactose oxidase-peroxidase biosensor for galactose detection with prolonged stability. In *Biotechnology Techniques*, 1999, vol. 13, p. 931-936.

Citácie:

1. [1.1] LI, Menglu - YANG, Juan - OU, Yining - SHI, Ying - LIU, Li - SUN, Chaoqun - ZHENG, Huzhi - LONG, Yijuan. Peroxidase-like activity of 2',7'-difluorofluorescein and its application for galactose detection. In *TALANTA*. ISSN 0039-9140, 2018, vol. 182, no., pp. 422-427., Registrované v: WOS

ADCA732

TKÁČ, Ján - ŠVITEL, Juraj - VOSTIAR, Igor - NAVRÁTIL, Marian - GEMEINER, Peter. Membrane-bound dehydrogenases from *Gluconobacter* sp.: Interfacial electrochemistry and direct bioelectrocatalysis. Igor Vostiar, Marian Navrátil, Peter Gemeiner. In *Bioelectrochemistry*, 2009, vol. 76, p.53-62. (2008: 2.444 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1567-5394.

Citácie:

1. [1.1] DE FOUCHECOUR, Florence - SANCHEZ-CASTANEDA, Ana-Karen - SAULOU-BERION, Claire - SPINLER, Henry Eric. Process engineering for microbial production of 3-hydroxypropionic acid. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2018, vol. 36, no. 4, pp. 1207-1222., Registrované v: WOS
2. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES*. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS
3. [1.1] YAMASHITA, Yuki - LEE, Inyoung - LOEW, Noya - SODE, Koji. Direct electron transfer (DET) mechanism of FAD dependent dehydrogenase complexes similar to from the elucidation of intra- and inter-molecular electron transfer pathway to the construction of engineered DET



- enzyme complexes similar to. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 12, no., pp. 92-100., Registrované v: WOS
- ADCA733 TKÁČ, Ján - DAVIS, J.J. An optimised electrode pre-treatment for SAM formation on polycrystalline gold. In *Journal of Electroanalytical Chemistry*, 2008, vol. 621, p. 117-120. ISSN 0022-0728.
- Citácie:
- [1.1] KALIMUTHU, Palraj - WOJTKIEWICZ, Agnieszka M. - SZALENIEC, Maciej - BERNHARDT, Paul V. Electrocatalytic Hydroxylation of Sterols by Steroid C25 Dehydrogenase from *Sterolibacterium denitrificans*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2018, vol. 24, no. 30, pp. 7710-7717., Registrované v: WOS
  - [1.1] SCHNEIDER, Sebastian - PARTES, Christoph - WIESNER, Adrian - TERFORT, Andreas. Potential-induced phase transition of benzoxazole-2-thiol, naphthaleneoxazole-2-thiol and anthraceneoxazole-2-thiol monolayers on gold electrodes. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2018, vol. 283, no., pp. 167-173., Registrované v: WOS
  - [1.1] THAL, Dana - KAHLERT, Heike - CHINNAYA, Jeyabharathi - AHRENS, Paula - HASSE, Ulrich. Impact of gold-1-decanethiol-SAM formation and removal cycles on the surface properties of polycrystalline gold and SAM quality. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*. ISSN 1432-8488, 2018, vol. 22, no. 4, pp. 1149-1154., Registrované v: WOS
  - [1.1] YANG, Shuo - NOGUCHI, Hidenori - UOSAKI, Kohei. Electronic Structure of CO Adsorbed on Electrodeposited Pt Thin Layers on Polycrystalline Au Electrodes Probed by Potential-Dependent IR/Visible Double-Resonance Sum Frequency Generation Spectroscopy. In *JOURNAL OF PHYSICAL CHEMISTRY C*. ISSN 1932-7447, 2018, vol. 122, no. 15, pp. 8191-8201., Registrované v: WOS
- ADCA734 TKÁČ, Ján - WHITTAKER, J.W. - RUZGAS, T. The use of single walled carbon nanotubes dispersed in a chitosan matrix for preparation of a galactose biosensor. In *Biosensors and Bioelectronic*, 2007, vol. 22, p. 1820-1824.
- Citácie:
- [1.1] KURBANOGU, Sevinc - ZAFAR, Muhammed Nadeem - TASCA, Federico - ASLAM, Iqra - SPADIUT, Oliver - LEECH, Donal - HALTRICH, Dietmar - GORTON, Lo. Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2-Oxidases and Osmium Polymers for Biosensor Applications. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 7, pp. 1496-1504., Registrované v: WOS
  - [1.1] PANNELL, Michael J. - DOLL, Elizabeth E. - LABBAN, Najwa - WAYU, Mulugeta B. - POLLOCK, Julie A. - LEOPOLD, Michael C. Versatile sarcosine and creatinine biosensing schemes utilizing layer-by-layer construction of carbon nanotube-chitosan composite films. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2018, vol. 814, no., pp. 20-30., Registrované v: WOS
  - [1.1] SRIVASTAVA, Anup K. - DEV, Atul - KARMAKAR, Surajit. Nanosensors and nanobiosensors in food and agriculture. In *ENVIRONMENTAL CHEMISTRY LETTERS*. ISSN 1610-3653, 2018, vol. 16, no. 1, pp. 161-182., Registrované v: WOS
- ADCA735 TKÁČ, Ján - VOŠTIAR, I. - GORTON, I. - GEMEINER, Peter - ŠTURDÍK, Ernest. Improved selectivity of microbial biosensor using membrane coating. Application to the analysis of ethanol during fermentation. In *Biosensors and Bioelectronic*, 2003, vol. 18, p. 1125-1134.
- Citácie:
- [1.1] YANG, Hong-Wei - HAO, Jiong-Ju - LIU, Yu-Jie - SONG, Da-Jie - NIU, Qing-Xia - PAN, Lei-Qing - XU, Zhi-Gang. Study of a Photonic Crystal Sensor for Detection of Solution Concentration. In *JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS*. ISSN 1555-130X, 2018, vol. 13, no. 1, pp. 111-118., Registrované v: WOS
  - [1.2] ISWANTINI, D. - NURHIDAYAT, N. - UTAMI, T. W. - TRIVADILA - SOEBRATA, B. M. Pineapple juice's microbe as bioreceptor for detecting alcohol by electrochemical method. In *IOP Conference Series: Earth and Environmental Science*. ISSN 17551307, 2018-11-19, 187, 1, pp., Registrované v: SCOPUS
- ADCA736 TKÁČ, Ján - VOŠTIAR, I. - ŠTURDÍK, Ernest - GEMEINER, Peter - MASTIHUBA, Vladimír - ANNUS, J. Fructose biosensor based on D-fructose dehydrogenase immobilised on a ferrocene-embedded cellulose acetate membrane. In *Analytica Chimica Acta*, 2001, vol. 439, p. 39-46. ISSN 0003-2670.
- Citácie:
- [1.1] AMANI-BENI, Zahra - NEZAMZADEH-EJHIEH, Alireza. Construction of a sensitive non-enzymatic fructose carbon paste electrode CuO nanoflower: designing the experiments by response surface methodology. In *NEW JOURNAL OF CHEMISTRY*. ISSN 1144-0546, 2018, vol. 42, no. 2, pp. 1021-1030., Registrované v: WOS
  - [1.1] SHAIMI, R. - LOW, S. C. Morphological characteristics of polymeric nylon-6 film as biological recognition interface for electrochemical immunosensor application. In *JOURNAL OF*

- APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 45, pp., Registrované v: WOS*
- ADCA737 TOMAN, Rudolf - KARÁCSONYI, Štefan - KOVÁČIK, Vladimír. Polysaccharides from the bark of the white willow (*Salix alba* L.): structure of a galactan. In *Carbohydrate Research*, 1972, vol. 25, p. 371-378. ISSN 0008-6215.  
Citácie:  
1. [1.2] HEMINGWAY, Richard W. *Bark: Its chemistry and prospects for chemical utilization. In Organic Chemicals from Biomass*, 2018-01-01, pp. 189-248., Registrované v: SCOPUS
- ADCA738 TOMKO, J. - BAUEROVÁ, O. - VOTICKÝ, Zdeno - GOUTAREL, R. - LONGEVIALLE, P. Alkaloids of *buxus sempervirens* L. - VI - structure of buxpsine. In *Tetrahedron Letters*, 1966, vol. 7, p. 915-919. ISSN 0040-4039.  
Citácie:  
1. [1.2] DEV, Sukh - NAGASAMPAGI, Bhimsen A. *CRC handbook of terpenoids: Triterpenoids volume I: Acyclic, monocyclic, bicyclic, tricyclic, and tetracyclic terpenoids. In CRC Handbook of Terpenoids Triterpenoids Volume I: Acyclic, Monocyclic, Bicyclic, Tricyclic, and Tetracyclic Terpenoids*, 2018-01-01, pp. 1-573., Registrované v: SCOPUS
- ADCA739 TOPAKAS, E. - KYRIAKOPOULOS, S. - BIELY, Peter - HIRSCH, Ján - VAFIADI, C. - CHRISTAKOPOULOS, P. Carbohydrate esterases of family 2 are 6-O-deacetylases. In *FEBS Letters*, 2010, vol. 584, p. 543-548. ISSN 1873-3468.  
Citácie:  
1. [1.1] KAMESHWAR, Ayyappa Kumar Sista - BARBER, Richard - QIN, Wensheng. *Comparative modeling and molecular docking analysis of white, brown and soft rot fungal laccases using lignin model compounds for understanding the structural and functional properties of laccases. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2018, vol. 79, no., pp. 15-26., Registrované v: WOS*
- ADCA740 TOPAKAS, E. - STAMATIS, H. - BIELY, Peter - CHRISTAKOPOULOS, P. Purification and characterization of a type B feruloyl esterase (Stf AE-A) from the thermophilic fungus *Sporotrichum thermophile*. In *Applied Microbiology and Biotechnology*, 2004, vol. 63, p. 686-690. ISSN 0175-7598.  
Citácie:  
1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. *Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS*  
2. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. *Structural and functional properties of pectin and lignin-carbohydrate complexes de-esterases: a review. In BIORESOURCES AND BIOPROCESSING, 2018, vol. 5, no., pp., Registrované v: WOS*  
3. [1.1] ZHANG, Qiang - BAI, Yajun - CAI, Yajun - ZHENG, Xiaohui. *Cloning, expression and characterization of a new feruloyl esterases from the Lactobacillus Johnsonii strain. In Journal of Food Science and Biotechnology. ISSN 16731689, 2018-01-01, 37, 11, pp. 1129-1134., Registrované v: SCOPUS*
- ADCA741 TOPAKAS, E. - STAMATIS, H. - BIELY, Peter - KEKOS, D. - MACRIS, B.J. Purification and characterization of a feruloyl esterase from *Fusarium oxysporum* catalyzing esterification of phenolic acids in ternary water-organic solvent mixtures. In *Journal of Biotechnology*, 2003, vol. 102, p. 33-44. ISSN 0168-1656.  
Citácie:  
1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. *Carbohydrate Esterases: An Overview. In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS*  
2. [1.1] GARCIA-CALVO, L. - ULLAN, R. V. - FERNANDEZ-AGUADO, M. - GARCIA-LINO, A. M. - BALANA-FOUCE, R. - BARREIRO, C. *Secreted protein extract analyses present the plant pathogen Alternaria alternata as a suitable industrial enzyme toolbox. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2018, vol. 177, no., pp. 48-64., Registrované v: WOS*  
3. [1.1] GRAJALES, Daniel A. - CARLOS MATEOS, Juan - LOPEZ GALLEGO, Fernando. *Immobilization of feruloyl esterases Novel heterogeneous biocatalysts towards bioeconomy. In CHIMICA OGGI-CHEMISTRY TODAY. ISSN 0392-839X, 2018, vol. 36, no. 3, pp. 55-58., Registrované v: WOS*  
4. [1.1] ROMERO-BORBON, Evelyn - GRAJALES-HERNANDEZ, Daniel - ARMENDARIZ-RUIZ, Mariana - RAMIREZ-VELASCO, Lorena - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - ALBERTO CIRA-CHAVEZ, Luis - ISABEL ESTRADA-ALVARADO, Maria - CARLOS MATEOS-DIAZ, Juan. *Type C feruloyl esterase from Aspergillus ochraceus: A butanol specific biocatalyst for the synthesis of hydroxycinnamates in a ternary solvent system. In ELECTRONIC JOURNAL*

- ADCA742 *OF BIOTECHNOLOGY. ISSN 0717-3458, 2018, vol. 35, no., pp. 1-9., Registrované v: WOS*  
 TOPAKAS, E. - STAMATIS, H. - MASTIHUBOVÁ, Mária - BIELY, Peter - KEKOS, D. -  
 MACRIS, B.J. - CHRISTAKOPOULOS, P. Purification and characterization of a Fusarium  
 oxysporum feruloyl esterase (FoFAE-I) catalysing transesterification of phenolic acid esters. In  
 Enzyme and Microbial Technology, 2003, vol. 33, p. 729-737. (2003 - Current Contents). ISSN 0141-  
 0229.  
 Citácie:  
 1. [1.1] ARMENDARIZ-RUIZ, Mariana - ALBERTO RODRIGUEZ-GONZALEZ, Jorge - MARIA  
 CAMACHO-RUIZ, Rosa - CARLOS MATEOS-DIAZ, Juan. Carbohydrate Esterases: An Overview.  
 In LIPASES AND PHOSPHOLIPASES: METHODS AND PROTOCOLS, 2ND EDITION. ISSN  
 1064-3745, 2018, vol. 1835, no., pp. 39-68., Registrované v: WOS  
 2. [1.1] ROMERO-BORBON, Evelyn - GRAJALES-HERNANDEZ, Daniel - ARMENDARIZ-RUIZ,  
 Mariana - RAMIREZ-VELASCO, Lorena - ALBERTO RODRIGUEZ-GONZALEZ, Jorge -  
 ALBERTO CIRA-CHAVEZ, Luis - ISABEL ESTRADA-ALVARADO, Maria - CARLOS MATEOS-  
 DIAZ, Juan. Type C feruloyl esterase from Aspergillus ochraceus: A butanol specific biocatalyst  
 for the synthesis of hydroxycinnamates in a ternary solvent system. In ELECTRONIC JOURNAL  
 OF BIOTECHNOLOGY. ISSN 0717-3458, 2018, vol. 35, no., pp. 1-9., Registrované v: WOS  
 3. [1.2] GANDLA, Madhavi Latha - GUDIPATI, Muralikrishna. Cereal acetyl and feruloyl  
 esterases: Role in cell wall degradation-An overview. In Trends in Carbohydrate Research, 2018-  
 01-01, 10, 4, pp. 51-66., Registrované v: SCOPUS
- ADCA743 TRNKA, Tomáš - TVAROŠKA, Igor - KOČA, Jaroslav\*\*. Automated training of reaxFF reactive  
 force fields for energetics of enzymatic reactions. In Journal of Chemical Theory and Computation,  
 2018, vol. 14, p. 291-302. (2017: 5.399 - IF, Q1 - JCR, 2.497 - SJR, Q1 - SJR, karentované - CCC).  
 (2018 - Current Contents). ISSN 1549-9618.  
 Citácie:  
 1. [1.1] SOTRIFFER, Christoph. Docking of Covalent Ligands: Challenges and Approaches. In  
 MOLECULAR INFORMATICS. ISSN 1868-1743, 2018, vol. 37, no. 9-10, pp., Registrované v:  
 WOS
- ADCA744 TRNOVEC, T. - ŠIKL, Dobroslav - ZEMÁNEK, M. - FÁBEROVÁ, V. - BEZEK, Š. - GAJDOŠÍK,  
 A. - KOPRDA, V. The distribution in mice of intra venously administered labeled Candida albicans.  
 In Medical Mycology, 1978, vol. 16, p. 299-306. ISSN 1369-3786.  
 Citácie:  
 1. [1.2] GHANNOUM, Mahmoud A. - RADWAN, Samir S. Candida adherence to epithelial cells.  
 In Candida Adherence to Epithelial Cells, 2018-01-01, pp. 1-270., Registrované v: SCOPUS
- ADCA745 TVAROŠKA, Igor - BLEHA, Tomáš. Anomeric and exoanomeric effects in carbohydrate chemistry.  
 In Advances in Carbohydrate Chemistry and Biochemistry, 1989, vol. 47, p. 45-123. ISSN 0065-  
 2318.  
 Citácie:  
 1. [1.1] BUSCHBECK-ALVARADO, M.E. - HERNANDEZ-FERNANDEZ, G. - HERNANDEZ-  
 TRUJILLO, J. - CORTES-GUZMAN, F. - CUEVAS, G. Charge transfer and electron localization  
 as the origin of the anomeric effect in the OCO segment of dimethoxymethane and spiroketals. In  
 JOURNAL OF PHYSICAL ORGANIC CHEMISTRY. ISSN 0894-3230, APR 2018, vol. 31, no. 4.,  
 Registrované v: WOS  
 2. [1.1] CHATTERJEE, S. - MOON, S. - HENTSCHEL, F. - GILMORE, K. - SEEBERGER, P.H.  
 An Empirical Understanding of the Glycosylation Reaction. In JOURNAL OF THE AMERICAN  
 CHEMICAL SOCIETY. ISSN 0002-7863, SEP 26 2018, vol. 140, no. 38, p. 11942-11953.,  
 Registrované v: WOS  
 3. [1.1] PANCZYK, K. - GAWEDA, K. - DRACH, M. - PLAZINSKI, W. Extension of the GROMOS  
 56a6(CARBO/CARBO)\_(R) Force Field for Charged, Protonated, and Esterified Uronates. In  
 JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, APR 12 2018, vol. 122, no. 14, p.  
 3696-3710., Registrované v: WOS  
 4. [1.1] PANZA, M. - PISTORIO, S.G. - STINE, K.J. - DEMCHENKO, A.V. Automated Chemical  
 Oligosaccharide Synthesis: Novel Approach to Traditional Challenges. In CHEMICAL REVIEWS.  
 ISSN 0009-2665, SEP 12 2018, vol. 118, no. 17, p. 8105-8150., Registrované v: WOS  
 5. [1.1] ZHANG, H. - NIE, S.P. - GUO, Q.B. - WANG, Q. - CUI, S.W. - XIE, M.Y. Conformational  
 properties of a bioactive polysaccharide from Ganoderma atrum by light scattering and molecular  
 modeling. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, NOV 2018, vol. 84, p. 16-25.,  
 Registrované v: WOS
- ADCA746 TVAROŠKA, Igor. Atomistic insight into the catalytic mechanism of glycosyltransferases by  
 combined quantum mechanics/molecular mechanics (QM/MM) methods. In Carbohydrate Research,  
 2015, vol.403, p. 38-47. (2014: 1.929 - IF, Q2 - JCR, 0.638 - SJR, Q2 - SJR, karentované - CCC).  
 (2015 - Current Contents). ISSN 0008-6215.  
 Citácie:



1. [1.1] BRAS, Natercia F. - FERNANDES, Pedro A. - RAMOS, Maria J. *Understanding the Rate-Limiting Step of Glycogenolysis by Using QM/MM Calculations on Human Glycogen Phosphorylase*. In CHEMMEDCHEM. ISSN 1860-7179, 2018, vol. 13, no. 15, pp. 1608-1616., Registrované v: WOS
- ADCA747 TVAROŠKA, Igor - CARVER, J.P. *Ab initio molecular orbital calculation of carbohydrate model compounds. 6. The gauche effect and conformations of the hydroxymethyl and methoxymethyl groups*. In Journal of physical chemistry, 1997, vol. 101, p. 2992-2999. ISSN 0022-3654.  
Citácie:  
1. [1.1] WOODS, Robert J. *Predicting the Structures of Glycans, Glycoproteins, and Their Complexes*. In CHEMICAL REVIEWS. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS
- ADCA748 TVAROŠKA, Igor - BLEHA, T. *Lone pair interaction in dimetoxymethane and anomeric effect*. In Canadian Journal of Chemistry, 1979, vol. 57, p. 424-435. ISSN 0008-4042.  
Citácie:  
1. [1.1] HE, Tanjin - WANG, Zhi - YOU, Xiaoping - LIU, Haoye - WANG, Yingdi - LI, Xiaoyu - HE, Xin. *A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3)*. In FUEL. ISSN 0016-2361, 2018, vol. 212, no., pp. 223-235., Registrované v: WOS
- ADCA749 TVAROŠKA, Igor - TARAVEL, F.R. *Carbon-proton coupling constants in the conformational analysis of sugar-molecules*. In Advances in Carbohydrate Chemistry and Biochemistry, 1995, vol. 51, p. 15-61. ISSN 0065-2318.  
Citácie:  
1. [1.1] HAMARK, Christoffer - PENDRILL, Robert - LANDSTROEM, Jens - FAGERSTROM, Alexandra Dotson - SANDGREN, Mats - STAHLBERG, Jerry - WIDMALM, Goran. *Enantioselective Binding of Propranolol and Analogues Thereof to Cellobiohydrolase Cel7A*. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2018, vol. 24, no. 68, pp. 17975-17985., Registrované v: WOS  
2. [1.1] Kollmann, C (Koellmann, Christoph); Jones, PG (Jones, Peter G.); Werz, DB (Werz, Daniel B.). *Synthesis of 5-ITC&IT-Methylated D-Mannose, D-Galactose, L-Gulose, and L-Altrose and Their Structural Elucidation by NMR Spectroscopy*. In: ORGANIC LETTERS Vol. 20 (2018), Issue: 4, p. 1220-1223, Registrované v: WOS  
3. [1.1] LIN, Yanqin - ZENG, Qing - LIN, Liangjie - CHEN, Zhong - BARKER, Peter B. *High-resolution methods for the measurement of scalar coupling constants*. In PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. ISSN 0079-6565, 2018, vol. 109, no., pp. 135-159., Registrované v: WOS  
4. [1.1] TOHDA, Kazuki - SAITO, Masashi - SAKAI, Hiroaki - ISHIKURA, Daisuke - SAITO, Ryota - SASAKI, Kaname. *NMR characterization of alpha- and beta-mannopyranurono-2,6-lactones*. In TETRAHEDRON. ISSN 0040-4020, 2018, vol. 74, no. 38, pp. 5481-5485., Registrované v: WOS  
5. [1.1] WANG, Ya-Nan - MOU, Yan-Hua - DONG, Yu - WU, Yan - LIU, Bing-Yu - BAI, Jian - YAN, Dao-Jiang - ZHANG, Le - FENG, Dan-Qing - PEI, Yue-Hu - HU, You-Cai. *Diphenyl Ethers from a Marine-Derived Aspergillus sydowii*. In MARINE DRUGS. ISSN 1660-3397, 2018, vol. 16, no. 11, pp., Registrované v: WOS
- ADCA750 TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. *Substrate-Assisted Catalytic Mechanism of O-GlcNAc Transferase Discovered by Quantum Mechanics/Molecular Mechanics Investigation*. In Journal of the American Chemical Society, 2012, vol. 134, p. 15563-15571. (2011: 9.907 - IF, 5.478 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0002-7863.  
Citácie:  
1. [1.1] HANOVER, John A. - CHEN, Weiping - BOND, Michelle R. *O-GlcNAc in cancer: An Oncometabolism-fueled vicious cycle*. In JOURNAL OF BIOENERGETICS AND BIOMEMBRANES. ISSN 0145-479X, 2018, vol. 50, no. 3, pp. 155-173., Registrované v: WOS
- ADCA751 TVAROŠKA, Igor - TARAVEL, F.R. - UTILLE, J.P. - CARVER, J.P. *Quantum mechanical and NMR spectroscopy studies on the conformations of the hydroxymethyl and methoxymethyl groups in aldohexosides*. In Carbohydrate Research, 2002, vol. 337, p. 353-367. (2001: 1.349 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0008-6215.  
Citácie:  
1. [1.1] AMARASEKARA, Harsha - DHARUMAN, Suresh - KATO, Takayuki - CRICH, David. *Synthesis of Conformationally-Locked cis- and trans-Bicyclo[4.4.0] Mono-, Di-, and Trioxadecane Modifications of Galacto- and Glucopyranose; Experimental Limiting (3)J(H,H) Coupling Constants for the Estimation of Carbohydrate Side Chain Populations and Beyond*. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2018, vol. 83, no. 2, pp. 881-897., Registrované v: WOS



2. [1.1] BESTAOUI-BERREKHCHI-BERRAHMA, N. - SPRINGBORG, M. - BERREKHCHI-BERRAHMA, C. A. - SEKKAL-RAHAL, M. DFT and MP2 conformational study of 3,6-anhydro- $\alpha$ -D-galactose in gas phase and in aqueous solvent. In *COMPUTATIONAL AND THEORETICAL CHEMISTRY*. ISSN 2210-271X, 2018, vol. 1126, no., pp. 44-53., Registrované v: WOS
  3. [1.1] KERINS, Louise - BYRNE, Sylvester - GABBA, Adele - MURPHY, Paul. Anomer Preferences for Glucuronic and Galacturonic Acid and Derivatives and Influence of Electron-Withdrawing Substituents. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2018, vol. 83, no. 15, pp. 7714-7729., Registrované v: WOS
  4. [1.1] LEE, Ka Hung - SCHNUPF, Udo - SUMPTER, Bobby G. - IRLE, Stephan. Performance of Density-Functional Tight-Binding in Comparison to Ab Initio and First-Principles Methods for Isomer Geometries and Energies of Glucose Epimers in Vacuo and Solution. In *ACS OMEGA*. ISSN 2470-1343, 2018, vol. 3, no. 12, pp. 16899-16915., Registrované v: WOS
  5. [1.1] LOMAS, John S. Intramolecular O<sup>2</sup>HO and C<sup>2</sup>HO hydrogen bond cooperativity in D-glucopyranose and D-galactopyranose A DFT/GIAO, QTAIM/IQA, and NCI approach. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 8, pp. 748-766., Registrované v: WOS
  6. [1.1] NOWACKI, Andrzej - LIBEREK, Beata. Comparative conformational studies of 3,4,6-tri-O-acetyl-1,5-anhydro-2-deoxyhex-1-enitols at the DFT level. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2018, vol. 462, no., pp. 13-27., Registrované v: WOS
- ADCA752 TVAROŠKA, Igor - HRICOVÍNI, Miloš - PETRAKOVA, E. An attempt to derive a new Karplus-type equation of vicinal proton-carbon coupling constants for C-O-C-H segments of bonded atoms. In *Carbohydrate Research*, 1989, vol. 189, p. 359-362. ISSN 0008-6215.
- Citácie:
1. [1.1] AYTFENFISU, Asaminew H. - YANG, Mingjun - MACKERELL, Alexander D. CHARM Drude Polarizable Force Field for Glycosidic Linkages Involving Pyranoses and Furanoses. In *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*. ISSN 1549-9618, 2018, vol. 14, no. 6, pp. 3132-3143., Registrované v: WOS
  2. [1.1] GEBHARDT, Julia - KLEIST, Catharina - JAKOBTORWEIHEN, Sven - HANSEN, Niels. Validation and Comparison of Force Fields for Native Cyclodextrins in Aqueous Solution. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 5, pp. 1608-1626., Registrované v: WOS
  3. [1.1] NAVARRO-VAZQUEZ, Armando - SANTAMARIA-FERNANDEZ, Raquel - JAVIER SARDINA, F. MSpin-JCoupling. A modular program for prediction of scalar couplings and fast implementation of Karplus relationships. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 6, pp. 505-512., Registrované v: WOS
- ADCA753 UHLIARIKOVÁ, Iveta - VRŠANSKÁ, Mária - MCCLEARY, Barry V. - BIELY, Peter. Positional specificity of acetylxylosterases on natural polysaccharide: An NMR study. In *Biochimica et Biophysica Acta : general subjects*, 2013, vol. 1830, p. 3365-3372. (2012: 3.848 - IF, 2.084 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0304-4165.
- Citácie:
1. [1.1] ARAGUNDE, Hugo - BIARNES, Xevi - PLANAS, Antoni. Substrate Recognition and Specificity of Chitin Deacetylases and Related Family 4 Carbohydrate Esterases. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 2, pp., Registrované v: WOS
  2. [1.1] KANOKRATANA, Pattanop - WONGWILAIWALIN, Sarunyou - MHUANTONG, Wuttichai - TANGPHATSORNRUANG, Sithichoke - EURWILAICHITR, Lily - CHAMPREDA, Verawat. Characterization of cellulolytic microbial consortium enriched on Napier grass using metagenomic approaches. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2018, vol. 125, no. 4, pp. 439-447., Registrované v: WOS
  3. [1.1] RAZEQ, Fakhria M. - JURAK, Edita - STOGIOS, Peter J. - YAN, Ruoyu - TENKANEN, Maija - KABEL, Mirjam A. - WANG, Weijun - MASTER, Emma R. A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
- ADCA754 UHRÍN, Dušan - PROKSA, Bohumil - ZHAMIANAN, J. Lepenine and denudatine: New alkaloid from *Aconitum kusnezoffii*. In *Planta Medica : an international journal of natural products and medicinal plant research*, 1991, vol. 57, p. 390-391. ISSN 0032-0943.
- Citácie:
1. [1.1] SHI, Yingbo - WANG, Qiaoling - GAO, Shuanhu. Recent advances in the intramolecular Mannich reaction in natural products total synthesis. In *ORGANIC CHEMISTRY FRONTIERS*. ISSN 2052-4129, 2018, vol. 5, no. 6, pp. 1049-1066., Registrované v: WOS
- ADCA755 UHRÍN, Dušan - LIPTAJ, T. - HRICOVÍNI, Miloš - CAPEK, Peter. Determination of long-range proton-carbon coupling constants using modified 2D J-resolved experiments. In *Journal of Magnetic*

Resonance, 1989, vol. 84, p. 137-140. ISSN 1090-7807.

Citácie:

1. [1.1] PARELLA, Teodor. *Current developments in homonuclear and heteronuclear J-resolved NMR experiments*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 4, pp. 230-250., Registrované v: WOS

ADCA756

UHRÍN, Dušan - PROKSA, Bohumil. Conformational analysis of 4-methylraucubainium and 4-methylstrictaminium chlorides. In *Journal of Natural Products*, 1989, vol. 52, p. 637-639. ISSN 0163-3864.

Citácie:

1. [1.1] BENIDDIR, Mehdi A. - GENTA-JOUE, Gregory - LEWIN, Guy. *Resolving the (19R) Absolute Configuration of Lanciferine, a Monoterpene Indole Alkaloid from *Alstonia boulindaensis**. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2018, vol. 81, no. 4, pp. 1075-1078., Registrované v: WOS

ADCA757

UHRÍN, Dušan - LIPTAJ, T. - KOVÉR, K.E. Modified BIRD pulses and design of heteronuclear pulse sequences. In *Journal of Magnetic Resonance*, 1993, vol. 101, p. 41-46. ISSN 1090-7807.

Citácie:

1. [1.1] GOERLING, Benjamin - BERMEL, Wolfgang - BRAESE, Stefan - LUY, Burkhard. *Homonuclear decoupling by projection reconstruction*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 1006-1020., Registrované v: WOS
2. [1.1] KIRALY, Peter - NILSSON, Mathias - MORRIS, Gareth A. *Practical aspects of real-time pure shift HSQC experiments*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 993-1005., Registrované v: WOS
3. [1.1] LIN, Yanqin - ZENG, Qing - LIN, Liangjie - CHEN, Zhong - BARKER, Peter B. *High-resolution methods for the measurement of scalar coupling constants*. In *PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY*. ISSN 0079-6565, 2018, vol. 109, no., pp. 135-159., Registrované v: WOS
4. [1.1] NOLIS, Pau - PARELLA, Teodor. *Multiplicity-edited H-1-H-1 TOCSY experiment*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 976-982., Registrované v: WOS
5. [1.1] PARELLA, Teodor. *Current developments in homonuclear and heteronuclear J-resolved NMR experiments*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 4, pp. 230-250., Registrované v: WOS
6. [1.1] SAURI, Josep - BERMEL, Wolfgang - PARELLA, Teodor - WILLIAMSON, R. Thomas - MARTIN, Gary E. *Incorporating BIRD-based homodecoupling in the dual-optimized, inverted (1)J(CC) 1,n-ADEQUATE experiment*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 10, pp. 1029-1036., Registrované v: WOS
7. [1.1] VERMA, Ajay - BHATTACHARYA, Subrato - BAISHYA, Bikash. *Perfecting band selective homo-decoupling for decoupling two signals coupled within the same band*. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 36, pp. 19990-19999., Registrované v: WOS
8. [1.2] SMITH, Thomas Brendan - PATEL, Kamlesh - MUNFORD, Haydn - PEET, Andrew - TENNANT, Daniel A. - JEEVES, Mark - LUDWIG, Christian. *High-speed tracer analysis of metabolism (HS-TrAM) [version 1; referees: 1 approved, 3 approved with reservations]*. In *Wellcome Open Research*, 2018-01-01, 3, pp., Registrované v: SCOPUS

ADCA758

UHRÍN, Dušan - MELE, A. - KOVÉR, K. E. - BOYD, J. - DWEK, R.A. One-dimensional inverse-detected methods for measurement of long-range proton-carbon coupling constants. Application to saccharides. In *Journal of Magnetic Resonance*, 1994, vol. 108, p. 160-170. ISSN 1090-7807.

Citácie:

1. [1.1] BIGLER, Peter - FURRER, Julien. *Measurement of long-range heteronuclear coupling constants using the peak intensity in classical 1D HMBC spectra*. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2018, vol. 56, no. 5, pp. 329-337., Registrované v: WOS

ADCA759

UHRÍNOVÁ, Stanislava - UHRÍN, Dušan - LIPTAJ, Tibor - BELLA, Juraj - HIRSCH, Ján. Measurement of one-bond proton-carbon coupling constants of saccharides. In *Magnetic Resonance in Chemistry*, 1991, vol. 29, p. 912-922. ISSN 0749-1581.

Citácie:

1. [1.1] SURUP, Frank - HALECKER, Sandra - NIMTZ, Manfred - RODRIGO, Sara - SCHULZ, Barbara - STEINERT, Michael - STADLER, Marc. *Hyfraxins A and B, cytotoxic ergostane-type steroid and lanostane triterpenoid glycosides from the invasive ash dieback ascomycete *Hymenoscyphus fraxineus**. In *STEROIDS*. ISSN 0039-128X, 2018, vol. 135, no., pp. 92-97., Registrované v: WOS
2. [1.1] ZHENG, Xiu-An - WANG, Rui - GONG, Shan-Shan - KONG, Rui - LIU, Rong - SUN, Qi. *An efficient and practical synthesis of formylglycinamide ribonucleotide (FGAR)*. In *NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS*. ISSN 1525-7770, 2018, vol. 37, no. 2, pp. 79-88., Registrované v: WOS

- ADCA760 URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MORKEBERG KROGH, K.B.R. - HOFF, T. - BIELY, Peter. Structural basis for substrate recognition by *Erwinia chrysanthemi* GH30 glucuronoxylanase. In *FEBS Journal*, 2011, vol. 278, p. 2105-2116. (2010: 3.129 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1742-464X.
- Citácie:
- [1.1] ARONSSON, A. - GULER, F. - PETOUKHOV, M.V. - CRENNELL, S.J. - SVERGUN, D.I. - LINARES-PASTEN, J.A. - KARLSSON, E.N. Structural insights of RmXyn10A-A prebiotic-producing GH10 xylanase with a non-conserved aglycone binding region. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. FEB 2018, vol. 1866, no. 2, p. 292-306., Registrované v: WOS
  - [1.1] BASIT, A. - LIU, J.Q. - RAHIM, K. - JIANG, W. - LOU, H.Q. Thermophilic xylanases: from bench to bottle. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. 2018, vol. 38, no. 7, p. 989-1002., Registrované v: WOS
  - [1.1] ESPINOZA, K. - EYZAGUIRRE, J. Identification, heterologous expression and characterization of a novel glycoside hydrolase family 30 xylanase from the fungus *Penicillium purpurogenum*. In *CARBOHYDRATE RESEARCH*. OCT 2018, vol. 468, p. 45-50., Registrované v: WOS
  - [1.1] GUO, Y.L. - GAO, Z. - XU, J.X. - CHANG, S.Y. - WU, B. - HE, B.F. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. OCT 1 2018, vol. 117, p. 377-384., Registrované v: WOS
  - [1.1] KARLSSON, E.N. - SCHMITZ, E. - LINARES-PASTEN, J.A. - ADLERCREUTZ, P. Endo-xylanases as tools for production of substituted xylooligosaccharides with prebiotic properties. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. NOV 2018, vol. 102, no. 21, p. 9081-9088., Registrované v: WOS
  - [1.1] LINARES-PASTEN, J.A. - ARONSSON, A. - KARLSSON, E.N. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. 2018, vol. 19, no. 1, p. 48-67., Registrované v: WOS
  - [1.1] MAEHARA, T. - YAGI, H. - SATO, T. - OHNISHI-KAMEYAMA, M. - FUJIMOTO, Z. - KAMINO, K. - KITAMURA, Y. - ST JOHN, F. - YAOI, K. - KANEKO, S. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. FEB 2018, vol. 84, no. 4., Registrované v: WOS
  - [1.1] ST JOHN, F.J. - DIETRICH, D. - CROOKS, C. - BALOGUN, P. - DE SERRANO, V. - POZHARSKI, E. - SMITH, J.K. - BALES, E. - HURLBERT, J. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. MAY 15 2018, vol. 475, 9, p. 1533-1551., Registrované v: WOS
- ADCA761 VAAJE-KOLSTAD, G. - FARKAŠ, Vladimír - FINCHER, G.B. - HRMOVÁ, Mária. Barley xyloglucan xyloglucosyl transferases bind xyloglucan-derived oligosaccharides in their acceptor-binding regions in multiple conformational states. In *Archives of Biochemistry and Biophysics*, 2010, vol. 496, p. 61-68. (2009: 3.046 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0003-9861.
- Citácie:
- [1.1] KONGTAWORN, Napat - HIRUN, Namon - TANTISHAIYAKUL, Vimom - RUNGROTMONGKOL, Thanyada - DOKMAISRIJAN, Supaporn. Molecular Aggregation of Four Modified Xyloglucan Models in Aqueous Solution. In *CHIANG MAI JOURNAL OF SCIENCE*. ISSN 0125-2526, 2018, vol. 45, no. 5, pp. 2201-2210., Registrované v: WOS
- ADCA762 VAAJE-KOLSTAD, G. - FARKAŠ, Vladimír - HRMOVÁ, Mária - FINCHER, G.B. Xyloglucan xyloglucosyl transferases from barley (*Hordeum vulgare* L.) bind oligomeric and polymeric xyloglucan molecules in their acceptor binding sites. In *Biochimica et Biophysica Acta : general subjects*, 2010, vol. 1800, p. 674-684. (2009: 2.958 - IF, karentované - CCC). (2010 - Current Contents, SCOPUS). ISSN 0304-4165.
- Citácie:
- [1.1] VALENZUELA-RIFFO, Felipe - RAMOS, Patricio - MORALES-QUINTANA, Luis. Computational study of FaEXP1, a strawberry alpha expansin protein, through molecular modeling and molecular dynamics simulation studies. In *COMPUTATIONAL BIOLOGY AND CHEMISTRY*. ISSN 1476-9271, 2018, vol. 76, no., pp. 79-86., Registrované v: WOS
- ADCA763 VACULÍK, Marek - LUX, Alexander - LUXOVÁ, Miroslava - TANIMOTO, Eiichi - LICHTSCHEIDL, Irene. Silicon mitigates cadmium inhibitory effects in young maize plants. In *Environmental and Experimental Botany*, 2009, vol. 67, no. 1, p. 52-58. (2008: 2.301 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0098-8472.
- Citácie:
- [1.1] ASHKAVAND, Peyman - ZARAFSHAR, Mehrdad - TABARI, Masoud - MIRZAIE, Javad -



- NIKPOUR, Amirreza - BORDBAR, Seyed Kazem - STRUVE, Daniel - GABRIEL STRIKER, Gustavo. APPLICATION OF SIO<sub>2</sub> NANOPARTICLES AS PRETREATMENT ALLEVIATES THE IMPACT OF DROUGHT ON THE PHYSIOLOGICAL PERFORMANCE OF PRUNUS MAHALEB (ROSACEAE). In BOLETIN DE LA SOCIEDAD ARGENTINA DE BOTANICA. ISSN 1851-2372, 2018, vol. 53, no. 2, pp. 207-219., Registrované v: WOS
2. [1.1] Bocharnikova, E. A.; Ostroumov, V. E.; Shabayev, V. P. Barley Plants Resistance to the Toxic Effect of Cadmium under Application of Natural Zeolite in Soil Contaminated with Heavy Metal. In: Agrokimiya (2018), Issue: 8, p. 64-73, Registrované v: WOS
3. [1.1] ETESAMI, Hassan. Can interaction between silicon and plant growth promoting rhizobacteria benefit in alleviating abiotic and biotic stresses in crop plants? In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. ISSN 0167-8809, 2018, vol. 253, no., pp. 98-112., Registrované v: WOS
4. [1.1] FENG, Juanjuan - JIA, Weitao - LV, Sulian - BAO, Hexigeduleng - MIAO, Fangfang - ZHANG, Xuan - WANG, Jinhui - LI, Jihong - LI, Dongsheng - ZHU, Cheng - LI, Shizhong - LI, Yinxin. Comparative transcriptome combined with morpho-physiological analyses revealed key factors for differential cadmium accumulation in two contrasting sweet sorghum genotypes. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2018, vol. 16, no. 2, pp. 558-571., Registrované v: WOS
5. [1.1] GAO, Wei - ZHAO, Peng - SUI, Fuqing - LIU, Hongen - FU, Haichao. Influence of Soil Amendments on Uptake and Accumulation of Cd and Pb in Maize (Zea mays L.). In ENVIRONMENTAL ENGINEERING SCIENCE. ISSN 1092-8758, 2018, vol. 35, no. 3, pp. 194-202., Registrované v: WOS
6. [1.1] KOLLAROVA, Karin - KAMENICKA, Viktoria - VATEHOVA, Zuzana - LISKOVA, Desana. Impact of galactoglucomannan oligosaccharides and Cd stress on maize root growth parameters, morphology, and structure. In JOURNAL OF PLANT PHYSIOLOGY. ISSN 0176-1617, 2018, vol. 222, no., pp. 59-66., Registrované v: WOS
7. [1.1] LU YINGANG - MA JUN - TENG YING - HE JUNYU - CHRISTIE, Peter - ZHU LINGJIA - REN WENJIE - ZHANG MANYUN - DENG, Shiping. Effect of Silicon on Growth, Physiology, and Cadmium Translocation of Tobacco (Nicotiana tabacum L.) in Cadmium-Contaminated Soil. In PEDOSPHERE. ISSN 1002-0160, 2018, vol. 28, no. 4, pp. 680-689., Registrované v: WOS
8. [1.1] NAEEM, Asif - SAIFULLAH - ZIA-UR-REHMAN, Muhammad - AKHTAR, Tasneem - ZIA, Munir Hussain - ASLAM, Muhammad. Silicon nutrition lowers cadmium content of wheat cultivars by regulating transpiration rate and activity of antioxidant enzymes. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2018, vol. 242, no., pp. 126-135., Registrované v: WOS
9. [1.1] PEREIRA, Talitha Soares - PEREIRA, Thais Soares - FIGUEREDO DE CARVALHO SOUZA, Carla Leticia - ALVINO LIMA, Emilly Juliane - BATISTA, Bruno Lemos - DA SILVA LOBATO, Allan Klynger. Silicon deposition in roots minimizes the cadmium accumulation and oxidative stress in leaves of cowpea plants. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, 2018, vol. 24, no. 1, pp. 99-114., Registrované v: WOS
10. [1.1] SHI, Zhenya - YANG, Suqin - HAN, Dan - ZHOU, Zhen - LI, Xuanchen - LIU, Ye - ZHANG, Biao. Silicon alleviates cadmium toxicity in wheat seedlings (Triticum aestivum L.) by reducing cadmium ion uptake and enhancing antioxidative capacity. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2018, vol. 25, no. 8, pp. 7638-7646., Registrované v: WOS
11. [1.1] SIDDIQUI, H. - YUSUF, M. - FARAZ, A. - FAIZAN, M. - SAMI, F. - HAYAT, S. 24-Epibrassinolide supplemented with silicon enhances the photosynthetic efficiency of Brassica juncea under salt stress. In SOUTH AFRICAN JOURNAL OF BOTANY. ISSN 0254-6299, 2018, vol. 118, no., pp. 120-128., Registrované v: WOS
12. [1.2] LIAO, Xiong Hui - LONG, Qin - WANG, Hui Qun - YI, Zi Li - XUE, Shuai. Interaction effects of Miscanthus lutarioriparius-derived biochar and cadmium passivators on rice cadmium content and yield. In Journal of Agro-Environment Science. ISSN 16722043, 2018-01-01, 37, 9, pp. 1818-1826., Registrované v: SCOPUS

ADCA764

VADINOVÁ, Kristína, Kováčová - DEGANI, Genny - STRATILOVÁ, Eva - FARKAŠ, Vladimír - POPOLO, Laura. Catalytic properties of Phr family members of cell wall glucan remodeling enzymes: implications for the adaption of Candida albicans to ambient pH. In FEMS Yeast Research, 2015, vol.15, p. fou11 (13 pages). ISSN 1567-1356.

Citácie:

1. [1.1] AWAD, Andy - EL KHOURY, Pamela - WEX, Brigitte - KHALAF, Roy A. Tandem Mass Spectrometric Cell Wall Proteome Profiling of a albicans hwp2 Mutant Strain. In CURRENT MOLECULAR PHARMACOLOGY. ISSN 1874-4672, 2018, vol. 11, no. 3, pp. 211-225., Registrované v: WOS
2. [1.1] BORAL, Hazal - METIN, Banu - DOGEN, Aylin - SEYEDMOUSAVI, Seyedmojtaba -



*ILKIT, Macit. Overview of selected virulence attributes in Aspergillus fumigants, Candida albicans, Cryptococcus neoformans, Trichophyton rubrum, and Exophiala dermatitidis. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, 2018, vol. 111, no., pp. 92-107., Registrované v: WOS*

3. [1.1] LUO, Zhibing - ZHANG, Tongbing - LIU, Pengfei - BAI, Yuting - CHEN, Qiyan - ZHANG, Yongjun - KEYHANI, Nemat O. The Beauveria bassiana Gas3 beta-Glucanoyltransferase Contributes to Fungal Adaptation to Extreme Alkaline Conditions. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 15, pp., Registrované v: WOS

ADCA765 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - VRÁNOVÁ, Dana - SLÁVIKOVÁ, Elena. Yeasts and yeast-like organisms associated with fruits and blossoms of different fruit trees. In Canadian Journal of Microbiology, 2012, vol. 58, p. 1344-1352. (2011: 1.363 - IF, 0.523 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0008-4166.

Citácie:

1. [1.1] DEUTSCHER, Ania T. - BURKE, Catherine M. - DARLING, Aaron E. - RIEGLER, Markus - REYNOLDS, Olivia L. - CHAPMAN, Toni A. Near full-length 16S rRNA gene next-generation sequencing revealed Asaia as a common midgut bacterium of wild and domesticated Queensland fruit fly larvae. In MICROBIOME. ISSN 2049-2618, 2018, vol. 6, no., pp., Registrované v: WOS

2. [1.1] GROSS, Simon - KUNZ, Liesa - MUELLER, Denise C. - KRON, Amanda Santos - FREIMOSER, Florian M. Characterization of antagonistic yeasts for biocontrol applications on apples or in soil by quantitative analyses of synthetic yeast communities. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 10, pp. 559-566., Registrované v: WOS

3. [1.1] LOU, Wenjia - TING, Hsiu-Chi - REYNOLDS, Christian A. - TYURINA, Yulia Y. - TYURIN, Vladimir A. - LI, Yiran - JI, Jiajia - YU, Wenxi - LIANG, Zhuqing - STOYANOVSKY, Detcho A. - ANTHONYMUTHU, Tamil S. - FRASSO, Michael A. - WIPF, Peter - GREENBERGER, Joel S. - BAYIR, Hulya - KAGAN, Valerian E. - GREENBERG, Miriam L. Genetic re-engineering of polyunsaturated phospholipid profile of Saccharomyces cerevisiae identifies a novel role for Cld1 in mitigating the effects of cardiolipin peroxidation. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS. ISSN 1388-1981, 2018, vol. 1863, no. 10, pp. 1354-1368., Registrované v: WOS

4. [1.1] LUKSA, Juliana - VEPSTAITE-MONSTAVICE, Igle - YURCHENKO, Vyacheslav - SERVA, Saulius - SERVIENE, Elena. High content analysis of sea buckthorn, black chokeberry, red and white currants microbiota A pilot study. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 111, no., pp. 597-606., Registrované v: WOS

5. [1.1] MADDEN, Anne A. - EPPS, Mary Jane - FUKAMI, Tadashi - IRWIN, Rebecca E. - SHEPPARD, John - SORGER, D. Magdalena - DUNN, Robert R. The ecology of insect-yeast relationships and its relevance to human industry. In PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES. ISSN 0962-8452, 2018, vol. 285, no. 1875, pp., Registrované v: WOS

6. [1.1] SIAVOSHI, Farideh - SAHRAEE, Marzieh - EBRAHIMI, Hoda - SARRAFNEJAD, Abdolfatah - SANIEE, Parastoo. Natural fruits, flowers, honey, and honeybees harbor Helicobacter pylori-positive yeasts. In HELICOBACTER. ISSN 1083-4389, 2018, vol. 23, no. 2, pp., Registrované v: WOS

7. [1.1] TING, Justine - XU, Rui - XU, Jianping. Molecular Identification and Distribution of Yeasts in Fruits. In MOLECULAR TECHNIQUES IN FOOD BIOLOGY: SAFETY, BIOTECHNOLOGY, AUTHENTICITY AND TRACEABILITY, 2018, vol., no., pp. 117-144., Registrované v: WOS

8. [1.1] VEPSTAITE-MONSTAVIC, Igle - LUKSA, Juliana - STANEVICLENE, Ramune - STRAZDAITE-ZIELIENE, Zivile - YURCHENKO, Vyacheslav - SERVA, Saulius - SERVIENE, Elena. Distribution of apple and blackcurrant microbiota in Lithuania and the Czech Republic. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2018, vol. 206, no., pp. 1-8., Registrované v: WOS

9. [1.1] YURKOV, Andrey M. Yeasts of the soil obscure but precious. In YEAST. ISSN 0749-503X, 2018, vol. 35, no. 5, pp. 369-378., Registrované v: WOS

10. [1.2] MOUBASHER, Abdel Aal H. - ABDEL-SATER, M. A. - SOLIMAN, Zeinab S.M. Diversity of floricolous yeasts and filamentous fungi of some ornamental and edible fruit plants in assiut area, egypt. In Current Research in Environmental and Applied Mycology, 2018-01-01, 8, 1, pp. 135-161., Registrované v: SCOPUS

ADCA766 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - LUX, Alexander - VACULÍK, Marek - LIŠKOVÁ, Desana. Yeasts associated with an abandoned mining area in Pernek and their tolerance to different chemical elements. In Folia Microbiologica, 2016, vol. 61, p.199-207. (2015: 1.335 - IF, Q4 - JCR, 0.462 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0015-5632.

## Citácie:

1. [1.1] FROSSARD, Aline - DONHAUSER, Johanna - MESTROT, Adrien - GYGAX, Sebastien - BAATH, Erland - FREY, Beat. Long- and short-term effects of mercury pollution on the soil microbiome. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2018, vol. 120, no., pp. 191-199., Registrované v: WOS
2. [1.1] KULAKOVSKAYA, Tatiana - RYAZANOVA, Lyubov - ZVONAREV, Anton - KHOKHLOVA, Galina - OSTROUMOV, Vladimir - VAINSHTEIN, Mikhail. The biosorption of cadmium and cobalt and iron ions by yeast *Cryptococcus humicola* at nitrogen starvation. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 4, pp. 507-510., Registrované v: WOS
3. [1.1] PRASONGSUK, Sehanat - LOTRAKUL, Pongtharin - ALI, Imran - BANKEEREE, Wichanee - PUNNAPAYAK, Hunsu. The current status of *Aureobasidium pullulans* in biotechnology. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 2, pp. 129-140., Registrované v: WOS

ADCA767

VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Metal tolerance of yeasts isolated from water, soil and plant environments. In *Journal of Basic Microbiology*, 2006, vol. 46, p. 145-152. (2006 - Current Contents). ISSN 0233-111X.

## Citácie:

1. [1.1] ACOSTA-RODRIGUEZ, Ismael - CARDENAS-GONZALEZ, Juan F. - RODRIGUEZ PEREZ, Adriana S. - TOVAR OVIEDO, Juana - MARTINEZ-JUAREZ, Victor M. Bioremoval of Different Heavy Metals by the Resistant Fungal Strain *Aspergillus niger*. In *BIOINORGANIC CHEMISTRY AND APPLICATIONS*. ISSN 1565-3633, 2018, vol., no., pp., Registrované v: WOS
2. [1.1] CIVIERO, Enrico - PINTUS, Manuela - RUGGERI, Claudio - TAMBURINI, Elena - SOLLAI, Francesca - SANJUST, Enrico - ZUCCA, Paolo. Physiological and Phylogenetic Characterization of *Rhodotorula diobovata* DSB006, a Nitrophilous Yeast. In *BIOLOGY-BASEL*, 2018, vol. 7, no. 3, pp., Registrované v: WOS
3. [1.1] KULAKOVSKAYA, Tatiana - RYAZANOVA, Lyubov - ZVONAREV, Anton - KHOKHLOVA, Galina - OSTROUMOV, Vladimir - VAINSHTEIN, Mikhail. The biosorption of cadmium and cobalt and iron ions by yeast *Cryptococcus humicola* at nitrogen starvation. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 4, pp. 507-510., Registrované v: WOS
4. [1.1] MOTESHAREIE, Houman - HAJIKARIMLOU, Maryam - INDROYANTI, Alex Mulet - BURNSIDE, Daniel - DIAS, Ana Paula - LETTL, Clara - AHMED, Duale - OMIDI, Katayoun - KAZMIRCHUK, Tom - PUCHACZ, Nathalie - ZARE, Narges - TAKALLOU, Sarah - NAING, Thet - HERNANDEZ, Raul Bonne - WILLMORE, William G. - BABU, Mohan - MCKAY, Bruce - SAMANFAR, Bahram - HOLCIK, Martin - GOLSHANI, Ashkan. Heavy metal sensitivities of gene deletion strains for *ITT1* and *RPS1A* connect their activities to the expression of *URE2*, a key gene involved in metal detoxification in yeast. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
5. [1.1] OLADIPO, Oluwatosin Gbemisola - AUIOTOYE, Olusegun Olufemi - OLAYINKA, Akinyemi - BEZUIDENHOUT, Cornelius Carlos - MABOETA, Mark Steve. Heavy metal tolerance traits of filamentous fungi isolated from gold and gemstone mining sites. In *BRAZILIAN JOURNAL OF MICROBIOLOGY*. ISSN 1517-8382, 2018, vol. 49, no. 1, pp. 29-37., Registrované v: WOS
6. [1.1] VILLALBA-VILLALBA, Ana G. - CRUZ-CAMPAS, Martin E. - AZUARA-GOMEZ, Grecia. *Aspergillus niger* Tiegh., isolated in Sonora, Mexico: metal tolerance evaluation. In *REVISTA CHAPINGO SERIE CIENCIAS FORESTALES Y DEL AMBIENTE*. ISSN 2007-3828, 2018, vol. 24, no. 2, pp. 131-146., Registrované v: WOS

ADCA768

VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Influence of pesticides on the yeasts colonizing the leaves. In *Zeitschrift für Naturforschung C*, 2011, vol. 66c, p. 588-594. (2010: 0.718 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0939-5075.

## Citácie:

1. [1.1] SCARIOT, Fernando J. - JAHN, Luciane - DELAMARE, Ana Paula L. - ECHEVERRIGARAY, Sergio. Necrotic cell death induced by dithianon on *Saccharomyces cerevisiae*. In *PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY*. ISSN 0048-3575, 2018, vol. 149, no., pp. 137-142., Registrované v: WOS

ADCA769

VAFIADI, Christina - TOPAKAS, Evangelos - BIELY, Peter. Purification, characterization and mass spectrometric sequencing of a thermophilic glucuronoyl esterase from *Sporotrichum thermophile*. Peter Biely. In *FEMS Microbiology Letters*, 2009, vol. 296, p. 178-184. (2008: 2.021 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0378-1097.

## Citácie:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK,

- Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In BIOTECHNOLOGY FOR BIOFUELS, 2018, vol. 11, no., pp., Registrované v: WOS*
2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS
3. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS
- ADCA770 VALACH, Milan - KATRLÍK, Jaroslav - ŠTURDÍK, Ernest - GEMEINER, Peter. Ethanol Gluconobacter biosensor designed for flow injection analysis Application in ethanol fermentation off-line monitoring. Ernest Šturdík, Peter Gemeiner. In Sensors and Actuators B, 2009, vol.138, p. 581-586. (2008: 1.724 - IF).
- Citácie:
1. [1.1] DE SA, Acelino Cardoso - CIPRI, Andrea - GONZALEZ-CALABUIG, Andreu - STRADIOTTO, Nelson Ramos - DEL VALLE, Manel. Multivariate Determination of Total Sugar Content and Ethanol in Bioethanol Production Using Carbon Electrodes Modified with MWCNT/MeOOH and Chemometric Data Treatment. In ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 8, pp. 1688-1697., Registrované v: WOS
2. [1.1] SAMPHAO, Anchalee - BUTMEE, Preeyanut - SAEJUENG, Pranom - PUKAHUTA, Charida - SVORC, L'ubomir - KALCHER, Kurt. Monitoring of glucose and ethanol during wine fermentation by bienzymatic biosensor. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2018, vol. 816, no., pp. 179-188., Registrované v: WOS
3. [1.2] ISWANTINI, D. - NURHIDAYAT, N. - UTAMI, T. W. - TRIVADILA - SOEBRATA, B. M. Pineapple juice's microbe as bioreceptor for detecting alcohol by electrochemical method. In IOP Conference Series: Earth and Environmental Science. ISSN 17551307, 2018-11-19, 187, 1, pp., Registrované v: SCOPUS
- ADCA771 VALACHOVÁ, Katarína - VARGOVÁ, A. - RAPTA, Peter - HRABÁROVÁ, Eva - DRÁFI, František - BAUEROVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Aurothiomalate as preventive and chain-breaking antioxidant in radical degradation of high-molar-mass hyaluronan. In Chemistry & biodiversity, 2011, vol. 8, no. 7, p. 1274-1283. (2010: 1.586 - IF, karentované - CCC). (2011 - Current Contents). ISSN 1612-1872.
- Citácie:
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA772 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - PRIESOLOVÁ, Elena - NAGY, Milan - BAŇASOVÁ, Mária - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molecular-weight hyaluronan induced by ascorbate plus cupric ions. Testing of buccillamine and its SA981-metabolite as antioxidants. In Journal of Pharmaceutical and Biomedical Analysis, 2011, vol. 56, p. 664-670. (2010: 2.733 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0731-7085.
- Citácie:
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA773 VALACHOVÁ, Katarína - TOPOLSKÁ, Dominika - MENDICHI, Raniero - COLLINS, Maurice N. - SASINKOVÁ, Vlasta - ŠOLTÉS, Ladislav. Hydrogen peroxide generation by the Weissberger biogenic oxidative system during hyaluronan degradation. In Carbohydrate Polymers, 2016, vol. 148, p. 189-193. (2015: 4.219 - IF, Q1 - JCR, 1.460 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] ACAR, Ozge Karabiyik - KAYITMAZER, A. Basak - KOSE, Gamze Torun. Hyaluronic Acid/Chitosan Coacervate-Based Scaffolds. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 4, pp. 1198-1211., Registrované v: WOS
2. [1.1] KIM, Jin Hong - MOON, Myeong Ju - KIM, Dong Yi - HEO, Suk Hee - JEONG, Yong



- Yeon. Hyaluronic Acid-Based Nanomaterials for Cancer Therapy. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 10, art. no. 1133., Registrované v: WOS*
3. [1.1] MOURYCOVA, J. - DATTA, K. K. R. - PROCHAZKOVA, A. - PLOTENA, M. - ENEV, V. - SMILEK, J. - MASILKO, J. - PEKAR, M. Facile synthesis and rheological characterization of nanocomposite hyaluronan-organoclay hydrogels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 680-684., Registrované v: WOS
4. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA774 VALACHOVÁ, Katarína - RAPTA, Peter - KOGAN, Grigorij - HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTĚS, Ladislav. Degradation of high-molar-mass hyaluronan by ascorbate plus cupric ions: effects of D-penicillamine addition. In Chemistry & biodiversity, 2009, vol.6, p.389-395. (2008: 1.659 - IF, karentované - CCC). (2009 - Current Contents). ISSN 1612-1872.
- Citácie:
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA775 VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - TOPOĽSKÁ, Dominika - SASINKOVÁ, Vlasta - JURÁNEK, Ivo - COLLINS, Maurice N. - ŠOLTĚS, Ladislav. Influence of tiopronin, captopril and levamisole therapeutics on the oxidative degradation of hyaluronan. In Carbohydrate Polymers, 2015, vol. 134, p. 516-523. (2014: 4.074 - IF, Q1 - JCR, 1.584 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] ACAR, O.K. - KAYITMAZER, A.B. - KOSE, G.T. Hyaluronic Acid/Chitosan Coacervate-Based Scaffolds. In BIOMACROMOLECULES. ISSN 1525-7797, 2018, vol. 19, no. 4, p. 1198-1211., Registrované v: WOS
2. [1.1] KIM, J.H. - MOON, M.J. - KIM, D.Y. - HEO, S.H. - JEONG, Y.Y. Hyaluronic Acid-Based Nanomaterials for Cancer Therapy. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 10, art. no. 1133., Registrované v: WOS
3. [1.1] MOURYCOVA, J. - DATTA, K.K.R. - PROCHAZKOVA, A. - PLOTENA, M. - ENEV, V. - SMILEK, J. - MASILKO, J. - PEKAR, M. Facile synthesis and rheological characterization of nanocomposite hyaluronan-organoclay hydrogels. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, p. 680-684., Registrované v: WOS
4. [1.1] SAFRANKOVA, B. - HERMANNOVA, M. - NESPOROVA, K. - VELEBNY, V. - KUBALA, L. Absence of differences among low, middle, and high molecular weight hyaluronan in activating murine immune cells in vitro. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 107, A, p. 1-8., Registrované v: WOS
5. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Waretown, New Jersey: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA776 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTĚS, Ladislav. Hyaluronan degradation by ascorbate: protective effects of manganese(II) chloride. In Cellulose Chemistry and Technology, 2008, vol. 42, no. 9-10, p.473-483. (2007: 0.113 - IF, karentované - CCC). (2008 - Current Contents). ISSN 0576-9787.
- Citácie:
1. [1.1] YU, Chen - TANG, Xiaozhi - LIU, Shaowei - YANG, Yuling - SHEN, Xinchun - GAO, Chengcheng. Laponite crosslinked starch/polyvinyl alcohol hydrogels by freezing/thawing process and studying their cadmium ion absorption. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 117, no., pp. 1-6., Registrované v: WOS
2. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADCA777 VALKO, L. - TVAROŠKA, Igor - KOVAŘÍK, P. Saturated irregular structures in PVC. In European



Polymer Journal, 1975, vol. 11, p. 411-416. ISSN 0014-3057.

Citácie:

1. [1.1] SHNAWA, Hussein Ali - KHALAF, Moayad Naeem - JAHANI, Yousef. The effects of natural polyphenols and calcium-based thermal stabilizer on the rheological and thermal resistance behaviors of PVC. In *INTERNATIONAL JOURNAL OF PLASTICS TECHNOLOGY*. ISSN 0972-656X, 2018, vol. 22, no. 2, pp. 365-385., Registrované v: WOS

ADCA778 VANĚK, Tomáš - HALECKÝ, Martin - PÁCA, Jan - ZÁPOTOCKÝ, Ľuboš - GELBICOVÁ, Tereza - VADKERTIOVÁ, Renáta - KOZLIAK, Evguenii - JONES, Kim. A two-stage combined trickle bed reactor/biofilter for treatment of styrene/acetone vapor mixtures. In *Journal of environmental science and health Part A, Toxic/Hazardous substances & Environmental engineering*, 2015, vol.50, p. 1148-1159. (2014: 1.164 - IF, Q3 - JCR, 0.546 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1093-4529.

Citácie:

1. [1.1] YANG, Chunping - QIAN, Hui - LI, Xiang - CHENG, Yan - HE, Huijun - ZENG, Guangming - XI, Jinying. Simultaneous Removal of Multicomponent VOCs in Biofilters. In *TRENDS IN BIOTECHNOLOGY*. ISSN 0167-7799, 2018, vol. 36, no. 7, pp. 673-685., Registrované v: WOS

ADCA779 VAN PEU, N.N.M.E. - BRINKMANN, J. - VRŠANSKÁ, Mária - VISSER, J. - DE GRAAFF, L.H. Beta xylosidase activity, encoded by xlnD, is essential for complete hydrolysis of xylan by *Aspergillus niger* but not for induction of the xylanolytic enzyme spectrum. In *European Journal of Biochemistry*, 1997, vol. 245, p. 164-173. (1997 - Current Contents, SCOPUS). ISSN 0014-2956.

Citácie:

1. [1.1] HERNANDEZ, Christian - MILAGRES, Adriane M. F. - VAZQUEZ-MARRUFO, Gerardo - MARIA MUNOZ-PAEZ, Karla - ANTONIO GARCIA-PEREZ, Jose - ALARCON, Enrique. An ascomycota coculture in batch bioreactor is better than polycultures for cellulase production. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2018, vol. 63, no. 4, pp. 467-478., Registrované v: WOS

2. [1.1] ZAFAR, Asma - AFTAB, Muhammad Nauman - MANZOOR, Asma - IQBAL, Irfana - DIN, Zia Ud - KALEEM, Afshan - KHOOHARO, Ateeque Rahman - SALEEM, Mushtaq Ahmad. Purification and Characterization of a recombinant beta-Xylosidase from *Bacillus licheniformis* ATCC 14580 into *E-coli* B121. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2755-2762., Registrované v: WOS

ADCA780 VASSOVÁ, A. - TOMKO, J. - VOTICKÝ, Zdeno - BEAL, J.L. Buxus alkaloids. 8. Alkaloids from *Buxus wallichiana* Baillen. In *Pharmazie*, 1970, vol. 25, p. 363-365. ISSN 0031-7144.

Citácie:

1. [1.2] DEV, Sukh - GUPTA, Amrit Sagar. CRC handbook of terpenoids: Triterpenoids: Volume ii: Pentacyclic and hexacyclic triterpenoids. In *CRC Handbook of Terpenoids: Triterpenoids: Volume II: Pentacyclic and Hexacyclic Triterpenoids*, 2018-01-01, pp. 1-624., Registrované v: SCOPUS

ADCA781 VELEBNÝ, Samuel - HRČKOVÁ, Gabriela - KOGAN, Grigorij. Impact of treatment with praziquantel, silymarin and/or beta-glucan on pathophysiological markers of liver damage and fibrosis in mice infected with *Mesocostoides vogae* (Cestoda) tetrathyridia. In *Journal of Helminthology*, 2008, vol. 82, p. 211-219. (2007: 1.155 - IF, karentované - CCC). (2008 - Current Contents). ISSN 1475-2697.

Citácie:

1. [1.1] SWEIFY, Karima Mohammad - DARWISH, Iman Abd El Moneim - HAFEZ, Dalia Demerdash Abd El Monem. The effect of ivermectin on secondary spermatocytes and serum total proteins. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 6, pp. 2471-2477., Registrované v: WOS

2. [1.2] FARIDNIA, Roghiyeh - KALANI, Hamed - FAKHAR, Mahdi - AKHTARI, Javad. Investigating in vitro anti-leishmanial effects of silibinin and silymarin on *Leishmania major*. In *Annals of parasitology*. ISSN 22990631, 2018-01-01, 64, 1, pp., Registrované v: SCOPUS

3. [2.1] VETVICKA, V. - FERNANDEZ-BOTRAN, R. beta-Glucan and parasites. In *HELMINTHOLOGIA*. ISSN 0440-6605, 2018, vol. 55, no. 3, pp. 177-184., Registrované v: WOS

ADCA782 VIKARTOVSKÁ, Alica, Welwardová - BUČKO, Marek - MISLOVIČOVÁ, Danica - PÄTOPRSTÝ, Vladimír - LACÍK, Igor - GEMEINER, Peter. Improvement of the stability of glucose oxidase via encapsulation in sodium alginate-cellulose sulfate-poly(methylene-co-guanidine) capsules. In *Enzyme and Microbial Technology*, 2007, vol. 41, p. 748-755. (2006: 1.897 - IF, karentované - CCC). (2007 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] CHEN, Z.X. - GU, G.H. - LI, S.K. - WANG, C.Q. - ZHU, R.F. The Effect of Seaweed Glue in the Separation of Copper-Molybdenum Sulphide Ore by Flotation. In *MINERALS*. ISSN 2075-163X, FEB 2018, vol. 8, no. 2., Registrované v: WOS

2. [1.1] HEINZE, T. - EL SEOUD, O.A. - KOSCHELLA, A. *Cellulose Esters. In CELLULOSE DERIVATIVES: SYNTHESIS, STRUCTURE, AND PROPERTIES. ISSN 2364-1878, 2018, p. 293-427., Registrované v: WOS*
3. [1.1] LAWSON, B.P. - GOLIKOVA, E. - SULMAN, A.M. - STEIN, B.D. - MORGAN, D.G. - LAKINA, N.V. - KARPENKOV, A.Y. - SULMAN, E.M. - MATVEEVA, V.G. - BRONSTEIN, L.M. *Insights into Sustainable Glucose Oxidation Using Magnetically Recoverable Biocatalysts. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, AUG 2018, vol. 6, no. 8, p. 9845-9853., Registrované v: WOS*
4. [1.1] WANG, Y.G. - WANG, X.J. - XIE, Y.J. - ZHANG, K. *Functional nanomaterials through esterification of cellulose: a review of chemistry and application. In CELLULOSE. ISSN 0969-0239, JUL 2018, vol. 25, no. 7, p. 3703-3731., Registrované v: WOS*
5. [1.1] XU, D.F. - SUN, L.J. - LI, C.H. - WANG, Y.L. - YE, R.Y. *Inhibitory effect of glucose oxidase from Bacillus sp CAMT22370 on the quality deterioration of Pacific white shrimp during cold storage. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JUN 2018, vol. 92, p. 339-346., Registrované v: WOS*
- ADCA783 VIVODOVÁ, Zuzana, Vatehová - MALOVÍKOVÁ, Anna - KOLLÁROVÁ, Karin - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana. Impact of cadmium stress on two maize hybrids. In *Plant Physiology and Biochemistry*, 2016, vol. 108, p. 90-98. (2015: 2.928 - IF, Q1 - JCR, 1.156 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0981-9428.  
Citácie:
1. [1.1] MORAVCOVÁ, Šárka - TŮMA, Jiří - DUČAIOVÁ, Zuzana Kovalíková - WALIGÓRSKI, Piotr - KULA, Monika - SAJA, Diana - SŁOMKA, Aneta - BĄBA, Wojciech - LIBIK-KONIECZNY, Marta. *Influence of salicylic acid pretreatment on seeds germination and some defence mechanisms of Zea mays plants under copper stress. In Plant Physiology and Biochemistry. ISSN 09819428, 2018-01-01, 122, pp. 19-30., Registrované v: SCOPUS*
- ADCA784 VLČKOVÁ, Viera - DÚHOVÁ, V. - SVIDOVÁ, Soňa - FARKAŠOVÁ, A. - KAMASOVÁ, S. - VLČEK, D. - KOGAN, Grigorij - RAUKO, Peter - MIADOKOVÁ, Eva. Antigenotoxic potential of glucomannan on four model test systems. In *Cell biology and toxicology*, 2004, vol. 20, no. 6, p. 325-332. ISSN 0742-2091.  
Citácie:
1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. *Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS*
2. [1.1] PIMENTEL, Emilio - CRUCES, Martha P. *Antimutagenic action of the live yeast can be transmitted to the offspring of Drosophila melanogaster. A genetic study using the wing spot assay. In ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS*
- ADCA785 VODENIČAROVÁ, M. - DRÍMALOVÁ, E. - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - EBRINGEROVÁ, Anna. Xyloglucan degradation using different radiation sources: A comparative study. In *Ultrasonics Sonochemistry*, 2006, vol. 13, p. 157-164. ISSN 1350-4177.  
Citácie:
1. [1.1] KIA, Ala Ghasemi - GANJLOO, Ali - BIMAKR, Mandana. *A Short Extraction Time of Polysaccharides from Fenugreek (Trigonella foenecum graecum) Seed Using Continuous Ultrasound Acoustic Cavitation: Process Optimization, Characterization and Biological Activities. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, 2018, vol. 11, no. 12, pp. 2204-2216., Registrované v: WOS*
2. [1.1] LI, Mei - LI, Junxun - ZHU, Chuanhe. *Effect of ultrasound pretreatment on enzymolysis and physicochemical properties of corn starch. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 848-856., Registrované v: WOS*
3. [1.1] SONG, Ang-Xin - MAO, Yu-Heng - SIU, Ka-Chai - WU, Jian-Yong. *Bifidogenic effects of Cordyceps sinensis fungal exopolysaccharide and konjac glucomannan after ultrasound and acid degradation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 111, no., pp. 587-594., Registrované v: WOS*
- ADCA786 VOJTECH, Michal - PETRUŠOVÁ, Mária - VALENT, Ivan - PRIBULOVÁ, Božena - PETRUŠ, Ladislav. Preparation of D-galactofuranosyl nitromethanes: a revision and a new approach. In *Carbohydrate Research*, 2011, vol. 346, p. 715-721. (2010: 1.898 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0008-6215.  
Citácie:
1. [1.1] YANG, Lin - LIN, Zuming - SHAO, Shunjie - ZHAO, Qian - HONG, Ran. *An Enantioconvergent and Concise Synthesis of Lasonolide A. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2018, vol. 57, no. 49, pp. 16200-16204.,*

- ADCA787      *Registrované v: WOS*  
 VOS, Paul de - BUČKO, Marek - GEMEINER, Peter - NAVRÁTIL, Marián - ŠVITEL, Juraj - FAAS, Marijke - STRAND, Berit Lokensgard - SKJAK-BRAEK, Gudmund - MORCH, Yrr A. - VIKARTOVSKÁ, Alica, Welwardová - LACÍK, Igor - HLOUŠKOVÁ, Gabriela - ORIVE, Gorka - PONCELET, Dennis - PEDRAZ, Jose Luis - ANSORGE-SCHUMACHER, Marion B. Multiscale requirements for bioencapsulation in medicine and biotechnology. In *Biomaterials*, 2009, vol. 30, p. 2559 - 2570. (2008: 6.646 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0142-9612.  
*Citácie:*  
 1. [1.1] ALJAZ, A. - LI, M. - SMITH, D. - KHONG, D. - LEBLON, C. - FENTON, O.S. - OLABISI, R.M. - LIBUTTI, S. - TISCHFIELD, J. - MAUS, M.V. - DEANS, R. - BARCIA, R.N. - ANDERSON, D.G. - RITZ, J. - PRETI, R. - PAREKKADAN, B. *Biomanufacturing for clinically advanced cell therapies*. In *NATURE BIOMEDICAL ENGINEERING*. ISSN 2157-846X, JUN 2018, vol. 2, no. 6, p. 362-376., *Registrované v: WOS*  
 2. [1.1] BENAMER, W. - CELLESI, F. - TIRELLI, N. *Chitosan/beta-glycerophosphate-based microparticles manufactured by laminar jet break-up technology*. In *JOURNAL OF MICROENCAPSULATION*. ISSN 0265-2048, 2018, vol. 35, no. 5, p. 407-420., *Registrované v: WOS*  
 3. [1.1] DURUKSU, G. - POLAT, S. - KAYIS, L. - EKIMCI GURCAN, N. - GACAR, G. - YAZIR, Y. *Improvement of the insulin secretion from beta cells encapsulated in alginate/poly-L-histidine/alginate microbeads by platelet-rich plasma*. In *TURKISH JOURNAL OF BIOLOGY*. ISSN 1300-0152, 2018, vol. 42, no. 4, p. 297-306., *Registrované v: WOS*  
 4. [1.1] HOLZMEISTER, I. - SCHAMEL, M. - GROLL, J. - GBURECK, U. - VORNDRAN, E. *Artificial inorganic biohybrids: The functional combination of microorganisms and cells with inorganic materials*. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, JUL 1 2018, vol. 74, p. 17-35., *Registrované v: WOS*  
 5. [1.1] KIM, D.H. - LEE, S.B. - PARK, H.D. *FERMENTATION CHARACTERISTICS OF CAMPBELL EARLY GRAPE WINE INOCULATED WITH INDIGENOUS KOREAN WINE YEASTS ENCAPSULATED IN CA-ALGINATE BEADS AFTER AIR-BLAST DRYING*. In *ITALIAN JOURNAL OF FOOD SCIENCE*. ISSN 1120-1770, 2018, vol. 30, no. 3, p. 535-552., *Registrované v: WOS*  
 6. [1.1] LIFFOURRENA, A.S. - LUCCHESI, G.I. *Alginate-perlite encapsulated Pseudomonas putida A (ATCC 12633) cells: Preparation, characterization and potential use as plant inoculants*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, JUL 20 2018, vol. 278, p. 28-33., *Registrované v: WOS*  
 7. [1.1] LIN, C. Y. - TA, D. T. - CHU, C. Y. - TA, T. M. N. *Single-stage biohythane production via co-immobilized fermentative microorganisms*. In *ENVIRONMENTAL TECHNOLOGY AND INNOVATIONS*, 2017, vol., no., pp. 127-131., *Registrované v: WOS*  
 8. [1.1] LLACUA, L.A. - HOEK, A. - DE HAAN, B.J. - DE VOS, P. *Collagen type VI interaction improves human islet survival in immunoisolating microcapsules for treatment of diabetes*. In *ISLETS*. ISSN 1938-2014, 2018, vol. 10, no. 2, p. 60-68., *Registrované v: WOS*  
 9. [1.1] SIPAILIENE, A. - PETRAITYTE, S. *Encapsulation of Probiotics: Proper Selection of the Probiotic Strain and the Influence of Encapsulation Technology and Materials on the Viability of Encapsulated Microorganisms*. In *PROBIOTICS AND ANTIMICROBIAL PROTEINS*. ISSN 1867-1306, MAR 2018, vol. 10, no. 1, p. 1-10., *Registrované v: WOS*  
 10. [1.1] SMITH, K.E. - JOHNSON, R.C. - PAPAS, K.K. *Update on cellular encapsulation*. In *XENOTRANSPLANTATION*. ISSN 0908-665X, SEP-OCT 2018, vol. 25, no. 5., *Registrované v: WOS*  
 11. [1.1] ZHANG, Y.B. - ALEXANDER, M. - YANG, S. - BIAN, Y.X. - BOTVINICK, E. - LAKEY, J.R.T. - OZCAN, A. *High-Throughput Screening of Encapsulated Islets Using Wide-Field Lens-Free On-Chip Imaging*. In *ACS PHOTONICS*. ISSN 2330-4022, JUN 2018, vol. 5, no. 6, p. 2081-2086., *Registrované v: WOS*  
 12. [1.2] YOON, Kun Ho - LEE, Eun Young - SHIN, Jun Seop - MIN, Byoung Hoon - KIM, Jong Min - PARK, Chung Gyu. *Encapsulated islet transplantation: From allogeneic to xenogeneic transplantation*. In *Advances in Experimental Surgery*, 2018-01-01, 1, pp. 569-592., *Registrované v: SCOPUS*
- ADCA788      VOŠTIAR, I. - TKÁČ, Ján - ŠTURDÍK, Ernest - GEMEINER, Peter. Amperometric urea biosensor based on urease and electropolymerized toluidine blue dye as a pH-sensitive redox probe. In *Bioelectrochemistry*, 2002, vol. 56, p. 113-115. (2002 - Current Contents). ISSN 1567-5394.  
*Citácie:*  
 1. [1.1] HASSAN, Rabeay Y. A. - KAMEL, Amira M. - HASHEM, Mona S. - HASSAN, Hassan N. A. - ABD EL-GHAFFAR, Mahmoud A. *A new disposable biosensor platform: carbon nanotube/poly(o-toluidine) nanocomposite for direct biosensing of urea*. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*. ISSN 1432-8488, 2018, vol. 22, no. 6, pp. 1817-1823.,



- Registrované v: WOS
- [1.1] RAHMANIAN, Reza - MOZAFFARI, Sayed Ahmad - AMOLI, Hossein Salar - ABEDI, Mohammad. Development of sensitive impedimetric urea biosensor using DC sputtered Nano-ZnO on TiO<sub>2</sub> thin film as a novel hierarchical nanostructure transducer. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 256, no., pp. 760-774., Registrované v: WOS
  - [1.2] RAVAL, Ritu - RAVAL, Keyur. Microbes and their products as sensors in industrially important fermentations. In *Biochemical and Cellular Aspects of Microbial Sensing: Making Sense of Applied Parameters*, 2018-01-01, pp. 253-266., Registrované v: SCOPUS
- ADCA789 VOTICKÝ, Zdeno - TOMKO, J. Alkaloids from *Buxus sempervirens* L. V. Configuration of buxtauine and buxpiine. In *Tetrahedron Letters*, 1965, vol. 6, p. 3579-3584. ISSN 0040-4039.
- Citácie:
- [1.2] DEV, Sukh - GUPTA, Amrit Sagar. CRC handbook of terpenoids: Triterpenoids: Volume ii: Pentacyclic and hexacyclic triterpenoids. In *CRC Handbook of Terpenoids: Triterpenoids: Volume II: Pentacyclic and Hexacyclic Triterpenoids*, 2018-01-01, pp. 1-624., Registrované v: SCOPUS
- ADCA790 VRABEL, P. - POLAKOVIC, M. - GODO, S. - BALES, V. - DOČOLOMANSKÝ, Peter - GEMEINER, Peter. Influence of immobilization on the thermal inactivation of yeast invertase. In *Enzyme and Microbial Technology*, 1997, vol. 21, iss. 3, p.196-202. ISSN 0141-0229.
- Citácie:
- [1.1] ALVAREZ, Gael - SHAHZAD, Tanvir - ANDANSON, Laurence - BAHN, Michael - WALLENSTEIN, Matthew D. - FONTAINE, Sebastien. Catalytic power of enzymes decreases with temperature: New insights for understanding soil C cycling and microbial ecology under warming. In *GLOBAL CHANGE BIOLOGY*. ISSN 1354-1013, 2018, vol. 24, no. 9, pp. 4238-4250., Registrované v: WOS
- ADCA791 VRŠANSKÁ, Mária - GORBACHEVA, A.I.V. - KRÁTKY, Z. - BIELY, Peter. Reaction pathways of substrate degradation by an acidic endo-1,4-beta-xylanase of *Aspergillus niger*. In *Biochimica et Biophysica Acta*, 1982, vol. 704, p. 114-122. ISSN 0006-3002.
- Citácie:
- [1.1] DEY, Protyusha - ROY, Amit. Molecular structure and catalytic mechanism of fungal family G acidophilic xylanases. In *3 BIOTECH*. ISSN 2190-572X, 2018, vol. 8, no., pp., Registrované v: WOS
  - [1.1] LINARES-PASTEN, Javier A. - ARONSSON, Anna - KARLSSON, Eva Nordberg. Structural Considerations on the Use of Endo-Xylanases for the Production of prebiotic Xylooligosaccharides from Biomass. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2018, vol. 19, no. 1, pp. 48-67., Registrované v: WOS
  - [1.1] XIONG, Ke - XIONG, Suyue - GAO, Siyu - LI, Qin - SUN, Baoguo - LI, Xiuting. Improving Hydrolysis Characteristics of Xylanases by Site-Directed Mutagenesis in Binding-Site Subsites from *Streptomyces* L10608. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2018, vol. 19, no. 3, pp., Registrované v: WOS
  - [1.2] XIONG, Ke - XIONG, Suyue - CUI, Xiaoting - ZHI, Huiwei - LI, Xiuting. Formation Mechanism of Specific Product of Substrate Hydrolyzed by Xylanase. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2018-08-31, 18, 8, pp. 284-292., Registrované v: SCOPUS
- ADCA792 VRŠANSKÁ, Mária - ŠUCHOVÁ, Katarína - Kolenová - PUCHART, Vladimír - BIELY, Peter. Mode of action of glycoside hydrolase family 5 glucuronoxylan xylanohydrolase from *Erwinia chrysanthemi*. In *FEBS Letters*, 2007, vol.274, p. 1666-1677. ISSN 1873-3468.
- Citácie:
- [1.1] GUO, Yalan - GAO, Zhen - XU, Jiaying - CHANG, Siyuan - WU, Bin - HE, Bingfang. A family 30 glucurono-xylanase from *Bacillus subtilis* LC9: Expression, characterization and its application in Chinese bread making. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 117, no., pp. 377-384., Registrované v: WOS
  - [1.1] MAEHARA, Tomoko - YAGI, Haruka - SATO, Tomoko - OHNISHI-KAMEYAMA, Mayumi - FUJIMOTO, Zui - KAMINO, Kei - KITAMURA, Yoshiaki - ST JOHN, Franz - YAOI, Katsuro - KANEKO, Satoshi. GH30 Glucuronoxylan-Specific Xylanase from *Streptomyces turgidiscabies* C56. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 4, pp., Registrované v: WOS
  - [1.1] ST JOHN, Franz J. - DIETRICH, Diane - CROOKS, Casey - BALOGUN, Peter - DE SERRANO, Vesna - POZHARSKI, Edwin - SMITH, James Kennon - BALES, Elizabeth - HURLBERT, Jason. A plasmid borne, functionally novel glycoside hydrolase family 30 subfamily 8 endoxylanase from solventogenic *Clostridium*. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2018, vol. 475, no., pp. 1533-1551., Registrované v: WOS
  - [1.1] VALLS, Cristina - JAVIER PASTOR, F. I. - VIDAL, Teresa - BLANCA RONCERO, M. -



- DIAZ, Pilar - MARTINEZ, Josefina - VALENZUELA, Susana V. Antioxidant activity of xylooligosaccharides produced from glucuronoxylan by Xyn10A and Xyn30D xylanases and eucalyptus autohydrolysates. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 194, no., pp. 43-50., Registrované v: WOS*
5. [1.1] *WEI, Lusha - YAN, Tongjing - WU, Yifei - CHEN, Hui - ZHANG, Baoshan. Optimization of alkaline extraction of hemicellulose from sweet sorghum bagasse and its direct application for the production of acidic xylooligosaccharides by Bacillus subtilis strain MR44. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 4, pp., Registrované v: WOS*
- ADCA793 *VRŠANSKÁ, Mária - BIELY, Peter. The cellobiohydrolase I from Trichoderma reesei QM 9414: action on cello-oligosaccharides. In Carbohydrate Research, 1992, vol. 227, p. 19-27. (1991: 1.299 - IF). ISSN 0008-6215.*  
Citácie:
1. [1.1] *ZHAI, Rui - HU, Jinguang - SADDLER, Jack N. The inhibition of hemicellulosic sugars on cellulose hydrolysis are highly dependant on the cellulase productive binding, processivity, and substrate surface charges. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2018, vol. 258, no., pp. 79-87., Registrované v: WOS*
- ADCA794 *VRŠANSKÁ, Mária - BIELY, Peter - KRÁTKY, Zdeno. Enzymes of the yeast lytic system produced by Arthrobacter GJM-1 bacterium and their role in the lysis of yeast cell walls. In Zeitschrift für allgemeine Mikrobiologie, 1977, vol. 17, p. 465-480.*  
Citácie:
1. [1.2] *KUMAR, Mahadevan - MUGUNTHAN, M. Evaluation of three DNA extraction methods from fungal cultures. In Medical Journal Armed Forces India. ISSN 03771237, 2018-10-01, 74, 4, pp. 333-336., Registrované v: SCOPUS*
- ADCA795 *WELLNER, N. - KAČURÁKOVÁ, Marta - MALOVÍKOVÁ, Anna - WILSON, R.H. - BELTON, P.S. FT-IR study of pectate and pectinate gels formed by divalent cations. In Carbohydrate Research, 1998, vol. 308, no. 1-2, p. 123. (1997: 1.417 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0008-6215.*  
Citácie:
1. [1.1] *ALEXANDRATOS, Spiro D. - ZHU, Xiaoping. Through-bond communication between polymer-bound phosphinic acid ligands and trivalent metal ions probed with FTIR spectroscopy. In VIBRATIONAL SPECTROSCOPY. ISSN 0924-2031, 2018, vol. 95, no., pp. 80-89., Registrované v: WOS*
2. [1.1] *GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Cross-linking of sodium carbonate-soluble pectins from apple by zinc ions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 196, no., pp. 1-7., Registrované v: WOS*
3. [1.1] *GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-Related Gelling of Pectins and Linking with Other Natural Compounds: A Review. In POLYMERS. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS*
4. [1.1] *ZHAO, Shan - YANG, Fan - LIU, Yang - SUN, Dongsheng - XIU, Zhilong - MA, Xiaojun - ZHANG, Ying - SUN, Guangwei. Study of chemical characteristics, gelation properties and biological application of calcium pectate prepared using apple or citrus pectin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2018, vol. 109, no., pp. 180-187., Registrované v: WOS*
5. [1.1] *ZHAO, Shan - ZHANG, Ying - LIU, Yang - YANG, Fan - XIU, Zhilong - MA, Xiaojun - SUN, Guangwei. Preparation and optimization of calcium pectate beads for cell encapsulation. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2018, vol. 135, no. 2, pp., Registrované v: WOS*
- ADCA796 *WOJCIECHOWICZ, M. - HEINRICHOVÁ, Kvetoslava - ZIOLECKI, A. A polygalacturonate lyase produced by Lachnospira multiparus isolated from the bovine rumen. In Journal of General Microbiology, 1980, vol. 117, p. 193-199.*  
Citácie:
1. [1.1] *BANG, So-Jung - KIM, Gayoung - LIM, Mi Young - SONG, Eun-Ji - JUNG, Dong-Hyun - KUM, Jun-Seok - NAM, Young-Do - PARK, Cheon-Seok - SEO, Dong-Ho. The influence of in vitro pectin fermentation on the human fecal microbiome. In AMB EXPRESS. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS*
- ADCA797 *YAMAMOTO, Yuta - TAKEI, Kenta - ARULMOZHIRAJA, Sundaram - SLÁDEK, Vladimír - MATSUO, Naoya - HAN, Song-lee - MATSUZAKA, Takashi - SEKIYA, Motohiro - TOKIWA, Takaki - SHOJI, Mitsuo - SHIGETA, Yasuteru - NAKAGAWA, Yoshimi - TOKIWA, Hiroaki - SHIMANO, Hitoshi\*\*. Molecular association model of PPAR $\alpha$  and its new specific and efficient ligand, pemafibrate: Structural basis for SPPARM $\alpha$ . In Biochemical and Biophysical Research Communications, 2018, vol. 499, p. 239-245. (2017: 2.559 - IF, Q2 - JCR, 1.087 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-291X.*  
Citácie:

1. [1.1] PRADHAN, Aruna D. - PAYNTER, Nina P. - EVERETT, Brendan M. - GLYNN, Robert J. - AMARENCO, Pierre - ELAM, Marshall - GINSBERG, Henry - HIATT, William R. - ISHIBASHI, Shun - KOENIG, Wolfgang - NORDESTGAARD, Borge G. - FRUCHART, Jean-Charles - LIBBY, Peter - RIDKER, Paul M. Rationale and design of the Pemafibrate to Reduce Cardiovascular Outcomes by Reducing Triglycerides in Patients with Diabetes (PROMINENT) study. In *AMERICAN HEART JOURNAL*. ISSN 0002-8703, 2018, vol. 206, no., pp. 80-93., Registrované v: WOS
2. [1.1] SANTOS, Raul D. - ROCHA, Viviane Z. Mendelian randomization causally link lipoproteins to systemic atherosclerosis and help design clinical trials for the future of lipidology. In *CURRENT OPINION IN LIPIDOLOGY*. ISSN 0957-9672, 2018, vol. 29, no. 6, pp. 482-483., Registrované v: WOS
- ADCA798 YEN, T.Y. - MACHER, B.A. - BRYSON, S. - CHANG, X.Q. - TVAROŠKA, Igor - TSE, R. - TAKESHITA, S. - LEW, A.M. - DATTI, A. Highly conserved cysteines of mouse core 2  $\beta$ 1,6-N-acetylglucosaminyltransferase I form a network of disulfide bonds and include a thiol that affects enzyme activity. In *Journal of Biological Chemistry*, 2003, vol. 278, p. 45864-45881. (2002: 6.696 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0021-9258.
- Citácie:
1. [3.2] Group Author(s). Uniprot Consortium. Q09324. IN *UniProt Knowledgebase*, 2018. Dostupné na internete: <http://www.uniprot.org/uniprot/Q09324>, Registrované v: Data Citation Index
- ADCA799 YORDANOV, Georgi - GEMEINER, Peter - KATRLÍK, Jaroslav. Study of interactions between blood plasma proteins and poly(butyl cyanoacrylate) drug nanocarriers by surface plasmon resonance. In *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2016, vol. 510, p. 309-316. (2015: 2.760 - IF, Q2 - JCR, 0.803 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0927-7757.
- Citácie:
1. [1.1] KORDE, Jay M. - KANDASUBRAMANIAN, Balasubramanian. Biocompatible alkyl cyanoacrylates and their derivatives as bio-adhesives. In *BIOMATERIALS SCIENCE*. ISSN 2047-4830, 2018, vol. 6, no. 7, pp. 1691-1711., Registrované v: WOS
2. [1.1] LIRA, Andre L. - FERREIRA, Rodrigo S. - TORQUATO, Ricardo J. S. - ZHAO, Huaying - OLIVA, Maria Luiza V. - HASSAN, Sergio A. - SCHUCK, Peter - SOUSA, Alioscka A. Binding kinetics of ultrasmall gold nanoparticles with proteins. In *NANOSCALE*. ISSN 2040-3364, 2018, vol. 10, no. 7, pp. 3235-3244., Registrované v: WOS
3. [1.2] HEARTY, Stephen - LEONARD, Paul - MA, Hui - O'KENNEDY, Richard. Measuring antibody-antigen binding kinetics using surface plasmon resonance. In *Methods in Molecular Biology*. ISSN 10643745, 2018-01-01, 1827, pp. 421-455., Registrované v: SCOPUS
- ADCA800 ZDURIENČIKOVÁ, Martina - CHOLUJOVÁ, Dana - DURAJ, Jozef - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - KARNIŠOVÁ POTOČKÁ, Elena - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - Klapáková, Martina - HORVÁTHOVÁ, Eva\*\*. Salidroside, a chemopreventive glycoside, diminishes cytotoxic effect of cisplatin in vitro. In *Basic & Clinical Pharmacology & Toxicology*, 2018, vol. 122, no. 3, p. 346-354. (2017: 2.659 - IF, Q2 - JCR, 0.655 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1742-7835.
- Citácie:
1. [1.1] MIGUEZ, Noa - RAMIREZ-ESCUADERO, Mercedes - GIMENO-PEREZ, Maria - POVEDA, Ana - JIMENEZ-BARBERO, Jesus - BALLESTEROS, Antonio O. - FERNANDEZ-LOBATO, Maria - SANZ-APARICIO, Julia - PLOU, Francisco J. Fructosylation of Hydroxytyrosol by the beta-Fructofuranosidase from *Xanthophyllomyces dendrorhous*: Insights into the Molecular Basis of the Enzyme Specificity. In *CHEMCATCHER*. ISSN 1867-3880, 2018, vol. 10, no. 21, pp. 4892-4901., Registrované v: WOS
2. [1.1] NIE, Ying - YAO, Weifeng. A Comprehensive Quality Evaluation Method Based on C-30-HPLC and an Analytic Hierarchy Process for the Chinese Herbal Formula, Erzhiwan. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 8, pp., Registrované v: WOS
3. [1.1] YAN, Rui - XU, Hua - FU, Xiaoxiang. Salidroside protects hypoxia-induced injury by up-regulation of miR-210 in rat neural stem cells. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 103, no., pp. 1490-1497., Registrované v: WOS
- ADCA801 ZELKO, Ivan - LUX, Alexander - STERCKEMAN, Thibault - MARTINKA, Michal - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. An easy method for cutting and fluorescent staining of thin roots. In *Annals of Botany*, 2012, vol. 110, p. 475-478. (2011: 4.030 - IF, 1.747 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0305-7364.
- Citácie:
1. [1.1] BLUM, Adrien - BRESSAN, Melanie - ZAHID, Abderrakib - TRINSOUTROT-GATTIN, Isabelle - DRIOUICH, Azeddine - LAVAL, Karine. Verticillium Wilt on Fiber Flax: Symptoms and Pathogen Development In Planta. In *PLANT DISEASE*. ISSN 0191-2917, 2018, vol. 102, no. 12,

pp. 2421-2429., Registrované v: WOS

2. [1.1] GOLAN, Guy - HENDEL, Elisha - ESPITIA, Gabriel E. Mendez - SCHWARTZ, Nimrod - PELEG, Zvi. Activation of seminal root primordia during wheat domestication reveals underlying mechanisms of plant resilience. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2018, vol. 41, no. 4, pp. 755-766., Registrované v: WOS

3. [1.1] KOLBERT, Zsuzsanna - MOLNAR, Arpad - SZOLLOSI, Reka - FEIGL, Gabol - ERDEI, Laszlo - ORDOG, Attila. Nitro-Oxidative Stress Correlates with Se Tolerance of *Astragalus* Species. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2018, vol. 59, no. 9, pp. 1827-1843., Registrované v: WOS

4. [1.1] LI, Pengxue - YANG, Meina - CHANG, Jiang - WU, Junqing - ZHONG, Fenglin - RAHMAN, Abidur - QIN, Haiyang - WU, Shuang. Spatial Expression and Functional Analysis of Casparian Strip Regulatory Genes in Endodermis Reveals the Conserved Mechanism in Tomato. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2018, vol. 9, no., pp., Registrované v: WOS

5. [1.1] URSACHE, Robertas - ANDERSEN, Tonni Grube - MARHAVY, Peter - GELDNER, Niko. A protocol for combining fluorescent proteins with histological stains for diverse cell wall components. In *PLANT JOURNAL*. ISSN 0960-7412, 2018, vol. 93, no. 2, pp. 399-412., Registrované v: WOS

ADCA802 ZELKO, Ivan - OUVREARD, Stéphanie - SIRGUEY, Catherine. Roots alterations in presence of phenanthrene may limit co-remediation implementation with *Nocca caerulea*. In *Environmental Science and Pollution Research*, 2017, vol. 24, p. 19653-19661. (2016: 2.741 - IF, Q2 - JCR, 0.891 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0944-1344.

Citácie:

1. [1.2] SHI, Wei - GUO, Yanjie - NING, Guohui - LI, Cheng - LI, Yan - REN, Yilei - ZHAO, Ouya - YANG, Zhixin. Remediation of soil polluted with HMW-PAHs by alfalfa or brome in combination with fungi and starch. In *Journal of Hazardous Materials*. ISSN 03043894, 2018-10-15, 360, pp. 115-121., Registrované v: SCOPUS

ADCA803 ZEMEK, J. - VALENT, M. - PODOVÁ, M. - KOŠÍKOVÁ, Božena - JONIAK, Dušan. Antimicrobial properties of aromatic compounds of plant origin. In *Folia microbiologica*, 1987, vol. 32, p. 421-425. ISSN 0015-5632.

Citácie:

1. [1.1] GORDOBIL, Oihana - HERRERA, Rene - YAHYAUI, Marwa - ILK, Sedef - KAYA, Murat - LABIDI, Jalel. Potential use of kraft and organosolv lignins as a natural additive for healthcare products. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 43, pp. 24525-24533., Registrované v: WOS

2. [1.1] KUMAR, Harish - AGRAWAL, Rohini - KUMAR, Vipin. *Barleria cristata*: perspective towards phytopharmacological aspects. In *JOURNAL OF PHARMACY AND PHARMACOLOGY*. ISSN 0022-3573, 2018, vol. 70, no. 4, pp. 475-487., Registrované v: WOS

3. [1.1] NIELSEN, C. K. - SUBBIAHDOSS, G. - ZENG, G. - SALMI, Z. - KJEMS, J. - MYGIND, T. - SNABE, T. - MEYER, R. L. Antibacterial isoeugenol coating on stainless steel and polyethylene surfaces prevents biofilm growth. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2018, vol. 124, no. 1, pp. 179-187., Registrované v: WOS

4. [1.1] SENA-LOPES, Angela - BRILHANTE BEZERRA, Francisco Silvestre - DAS NEVES, Raquel Nascimento - DE PINHO, Rodrigo Barros - DE OLIVEIRA SILVA, Mara Thais - SAVEGNAGO, Lucielli - COLLARES, Tiago - SEIXAS, Fabiana - BEGNINI, Karine - PEGAS HENRIQUES, Joao Antonio - ELY, Mariana Roesch - RUFATTO, Luciane C. - MOURA, Sidnei - BARCELLOS, Thiago - PADILHA, Francine - DELLAGOSTIN, Odir - BORSUK, Sibebe. Chemical composition, immunostimulatory, cytotoxic and antiparasitic activities of the essential oil from Brazilian red propolis. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 2, pp., Registrované v: WOS

5. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

ADCA804 ZEMEK, Juraj - KOŠÍKOVÁ, Božena - JONIAK, Dušan. Antimicrobial effects of lignin compounds. In *Folia Microbiologica*, 1979, vol. 24, p. 483-486. ISSN 0015-5632.

Citácie:

1. [1.1] GAZDAGLI, Aylin - SEFER, Ozlem - YORUK, Emre - VAROL, Gulcin Inci - TEKER, Tugba - ALBAYRAK, Gulruh. Investigation of Camphor Effects on *Fusarium graminearum* and *F. culmorum* at Different Molecular Levels. In *PATHOGENS*. ISSN 2076-0817, 2018, vol. 7, no. 4, pp., Registrované v: WOS

2. [1.1] GORDOBIL, Oihana - HERRERA, Rene - YAHYAUI, Marwa - ILK, Sedef - KAYA, Murat - LABIDI, Jalel. Potential use of kraft and organosolv lignins as a natural additive for healthcare products. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 43, pp. 24525-



24533., Registrované v: WOS

3. [1.1] LEE, Young-Hee - KIM, Ae-Li - PARK, Young-Gwang - HWANG, Eun-Kyung - BAEK, Young-Mee - CHO, Sunja - KIM, Han-Do. Colorimetric assay and deodorizing/antibacterial performance of natural fabrics dyed with immature pine cone extract. In *TEXTILE RESEARCH JOURNAL*. ISSN 0040-5175, 2018, vol. 88, no. 7, pp. 731-743., Registrované v: WOS
4. [1.1] NIELSEN, C. K. - SUBBIAHDOSS, G. - ZENG, G. - SALMI, Z. - KJEMS, J. - MYGIND, T. - SNABE, T. - MEYER, R. L. Antibacterial isoeugenol coating on stainless steel and polyethylene surfaces prevents biofilm growth. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2018, vol. 124, no. 1, pp. 179-187., Registrované v: WOS
5. [1.1] SPIRIDON, Iuliana. BIOLOGICAL AND PHARMACEUTICAL APPLICATIONS OF LIGNIN AND ITS DERIVATIVES: A MINI-REVIEW. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2018, vol. 52, no. 7-8, pp. 543-550., Registrované v: WOS
6. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zeyun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

#### ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

- ADCB01 DAMBORSKÁ, Dominika - KASÁK, Peter - TKÁČ, Ján. Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. In *Open Chemistry*, 2015, vol. 13, p. 636-655. (2015 - Current Contents, WOS). ISSN 2391-5420.

Citácie:

1. [1.1] HAYES, Bryony - MURPHY, Caroline - CRAWLEY, Aoife - O';KENNEDY, Richard. Developments in Point-of-Care Diagnostic Technology for Cancer Detection. In *DIAGNOSTICS*. ISSN 2075-4418, 2018, vol. 8, no. 2, pp., Registrované v: WOS
2. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS
3. [1.1] SAME, Saeideh - SAMEE, Golshan. Carbon Nanotube Biosensor for Diabetes Disease. In *CRESCENT JOURNAL OF MEDICAL AND BIOLOGICAL SCIENCES*. ISSN 2148-9696, 2018, vol. 5, no. 1, pp. 1-6., Registrované v: WOS
4. [1.1] SILVA, M. Luisa S. Lectin-based biosensors as analytical tools for clinical oncology. In *CANCER LETTERS*. ISSN 0304-3835, 2018, vol. 436, no., pp. 63-74., Registrované v: WOS
5. [1.2] SUBRAMANI, Indragandi - AYUB, R. M. - GOPINATH, S. C.B. - ARSHAD, M. K.Md - RAJAPAKSHA, R. D.A.A. - IBAU, C. Determination of functional head and tail groups of self-assembled monolayer (SAM) formed by 2-mercaptoacetate on aluminium oxide substrate. In *International Journal of Nanoelectronics and Materials*. ISSN 19855761, 2018-12-01, 11, special Issue BOND21, pp. 115-122., Registrované v: SCOPUS

- ADCB02 MORAVSKÝ, Ladislav - KLAS, Matej - MACHOVÁ, Eva - PISKLOVÁ, Katarína - MATEJČÍK, Štefan. Influence of a plasma jet on the viability of *Candida albicans*. In *Open Chemistry*, 2015, vol. 13, p. 257-262. ISSN 2391-5420.

Citácie:

1. [1.1] HANDORF, O. - WEIHE, T. - BEKESCHUS, S. - GRAF, A. C. - SCHNABEL, U. - RIEDEL, K. - EHLBECK, J. Nonthermal Plasma Jet Treatment Negatively Affects the Viability and Structure of *Candida albicans* SC5314 Biofilms. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 21, pp., Registrované v: WOS
2. [1.2] NERETTI, Gabriele - RICCHIUTO, Anna C. - GALUPPI, Roberta - POGLAYEN, Giovanni - MORANDI, Benedetto - MAROTTA, Ester - PARADISI, Cristina - TAMPIERI, Francesco - BORGHI, Carlo A. Indirect inactivation of *Candida guilliermondii* by using a plasma synthetic jet actuator: Effect of advected charged particles. In *Plasma Medicine*. ISSN 19475764, 2018-01-01, 8, 3, pp. 255-268., Registrované v: SCOPUS

#### \*ADD Vedecké práce v domácich karentovaných časopisoch

- ADD01 BUKOVSKY, M. - KARDOŠOVÁ, Alžbeta - KOSCOVA, H. - KOSTALOVA, D. Immunomodulating activity of 4-O-methyl-D-glucurono-D-xylan from *Rudbeckia fulgida*, var. *sullivantii*. In *Biologia*. - Cham : Springer International Publishing, 2018-, 1998, vol. 53, p. 771. (1997: 0.283 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.2] LOBERG, L. I. - ARCHER, K. A. Assessment of Innate Immunity. In *Comprehensive Toxicology: Third Edition*, 2018-01-01, 11-15, pp. 343-360., Registrované v: SCOPUS

- ADD02 KARDOŠOVÁ, Alžbeta. Polysaccharides from the leaves of *Plantago lanceolata* L., var. *Libor*: an



alpha-D-glucan. In Chemical papers. - Heidelberg : Springer-Verlag, 2017-, 1992, vol. 46, p. 127. ISSN 0366-6352.

Citácie:

1. [1.1] LUKOVA, Paolina - KARCHEVA-BAHCHEVANSKA, Diana - MOLLOVA, Daniela - NIKOLOVA, Mariana - MLADENOV, Rumen - ILIEV, Ilia. Study of prebiotic potential and antioxidant activity in *Plantago* spp. leaves after enzymatic hydrolysis with hemicellulase and xylanase. In *ENGINEERING IN LIFE SCIENCES*. ISSN 1618-0240, 2018, vol. 18, no. 11, pp. 831-839., Registrované v: WOS

ADD03 KARDOŠOVÁ, Alžbeta - BABOR, K. - ROSIK, J. - KUBALA, J.. Polysaccharides of wood destroying fungus *Fomes fomentarius* (L.) Fr. extracted with water. In *Chemické zvesti*, 1969, vol. 23, p. 454.

Citácie:

1. [1.1] MUKHIN, Victor A. - ZHUYKOVA, Elena - BADALYAN, Susanna M. Genetic Variability of the Medicinal Tinder Bracket Polypore, *Fomes fomentarius* (Agaricomycetes), from the Asian Part of Russia. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2018, vol. 20, no. 6, pp. 561-568., Registrované v: WOS

ADD04 STRATILOVÁ, Eva - MARKOVIČ, Oskar - DZÚROVÁ, Mária - MALOVÍKOVÁ, Anna - CAPEK, Peter - OMELKOVA, J.. The pectolytic enzymes of carrots. In *Biologia*, 1998, vol. 53, no. 6, p. 731-738. (1997: 0.283 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] OCHOA-JIMENEZ, Veronica-Alheli - BERUMEN-VARELA, Guillermo - BURGARA-ESTRELLA, Alexel - OROZCO-AVITIA, Jesus-Antonio - OJEDA-CONTRERAS, Angel-Javier - TRILLO-HERNANDEZ, Eduardo-Antonio - RIVERA-DOMINGUEZ, Marisela - TRONCOSO-ROJAS, Rosalba - BAEZ-SANUDO, Reginaldo - DATSENKA, Tatsiana - HANDA, Avtar K. - TIZNADO-HERNANDEZ, Martin-Ernesto. Functional analysis of tomato rhamnogalacturonan lyase gene *Solyc11g011300* during fruit development and ripening. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2018, vol. 231, no., pp. 31-40., Registrované v: WOS

2. [1.1] OCHOA-JIMENEZ, Veronica-Alheli - BERUMEN-VARELA, Guillermo - FERNANDEZ-VALLE, Rigel - MARTIN-ERNESTO - TIZNADO-HERNANDEZ. Rhamnogalacturonan lyase: A pectin modification enzyme of higher plants. In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*. ISSN 2079-052X, 2018, vol. 30, no. 11, pp. 910-917., Registrované v: WOS

ADD05 TVAROŠKA, Igor - CARVER, J.P. Ab initio molecular orbital calculation of carbohydrate model compounds. 5. Anomeric, exo-anomeric, and reverse anomeric effects in C-, N-, and S-glycosyl compounds. In *Journal of physical chemistry*. - Washington : American Chemical Society, -1995, 1996, vol. 100, p. 11305-11313. (1995: 3.395 - IF). ISSN 0022-3654.

Citácie:

1. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

#### ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. PPK1 and PPK2 - which polyphosphate kinase is older? In *Biologia : journal of the Slovak Academy of Sciences*, 2014, vol. 69, p. 263-269. (2013: 0.696 - IF, 0.302 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] MCGLYNN, Shawn E. - CHADWICK, Grayson L. - O'NEILL, Ariel - MACKEY, Mason - THOR, Andrea - DEERINCK, Thomas J. - ELLISMAN, Mark H. - ORPHAN, Victoria J. Subgroup Characteristics of Marine Methane-Oxidizing ANME-2 Archaea and Their Syntrophic Partners as Revealed by Integrated Multimodal Analytical Microscopy. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 11, pp., Registrované v: WOS

2. [1.1] WANG, Liang - YAN, Jiawei - WISE, Michael J. - LIU, Qinghua - ASENSO, James - HUANG, Yue - DAI, Shiyun - LIU, Zhazhong - DU, Yan - TANG, Daoquan. Distribution Patterns of Polyphosphate Metabolism Pathway and Its Relationships With Bacterial Durability and Virulence. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

ADDA02 BARÁTH, Marek - LIN, Chun-Hung - TVAROŠKA, Igor - HIRSCH, Ján. Development of transition state analogue inhibitors for N-acetylglucosyltransferases bearing D-psico- and D-tagatofuranose scaffold. In *Chemical Papers*, 2015, vol. 69, p. 348-357. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] UEDA, Atsushi - NISHIMURA, Yuri - MAKURA, Yui - TANAKA, Masakazu - UENISHI,

- Jun'ichi. beta-SELECTIVE D-PSICOFURANOSYLATION OF PYRIMIDINE BASES AND THIOLS. In HETEROCYCLES. ISSN 0385-5414, 2018, vol. 97, no. 2, pp. 729-743., Registrované v: WOS*
- ADDA03 BARTOŠ, L. - PRCHAL, V. - RAJCOVÁ, J. - EBRINGEROVÁ, Anna - GREGOROVÁ, Adriana. Rheological properties of hemicellulose. In *Textil a chemia*, 1990, vol. 20, p. 37-48. ISSN 1335-0617.  
Citácie:
1. [1.2] BARBOSA, Bianca Moreira - LINO, Alessandro Guarino - DE FARIA, Bruno De Freitas Homem - DE AGUIAR, Alex Ramos - GOMES, Fernando José Borges - DA SILVA, Juliana Cristina - COLODETTE, Jorge Luiz. Addition of corn fiber xylan to eucalyptus and pinus pulp and its effect on pulp bleachability and strength. In *Nordic Pulp and Paper Research Journal. ISSN 02832631, 2018-09-25, 33, 3, pp. 414-419., Registrované v: SCOPUS*
- ADDA04 BELICKÝ, Štefan - TKÁČ, Ján. Can glycoprofiling be helpful in detecting prostate cancer? In *Chemical Papers*, 2015, vol. 69, p.90-111. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.  
Citácie:
1. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In *CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS*
2. [1.1] SAME, Saeideh - SAMEE, Golshan. Carbon Nanotube Biosensor for Diabetes Disease. In *CRESCENT JOURNAL OF MEDICAL AND BIOLOGICAL SCIENCES. ISSN 2148-9696, 2018, vol. 5, no. 1, pp. 1-6., Registrované v: WOS*
3. [1.1] TREFULKA, Mojmir. Modification of Biomacromolecules with Six-valent Osmium Complexes and Electrochemical Analysis of the Modified Products. In *CHEMICKE LISTY. ISSN 0009-2770, 2018, vol. 112, no. 9, pp. 590-597., Registrované v: WOS*
4. [1.2] KAWAHARA, Rebeca - ORTEGA, Fabio - ROSA-FERNANDES, Livia - GUIMARÃES, Vanessa - QUINA, Daniel - NAHAS, Willian - SCHWÄMMLE, Veit - SROUGI, Miguel - LEITE, Katia R.M. - THAYSEN-ANDERSEN, Morten - LARSEN, Martin R. - PALMISANO, Giuseppe. Distinct urinary glycoprotein signatures in prostate cancer patients. In *Oncotarget*, 2018-09-01, 9, 69, pp. 33077-33097., Registrované v: SCOPUS
- ADDA05 BERTÓKOVÁ, Anikó, Illéssová - BERTÓK, Tomáš - FILIP, Jaroslav - TKÁČ, Ján. Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. In *Chemical Papers*, 2015, vol. 69, p. 27-41. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.  
Citácie:
1. [1.1] PLEKHANOVA, Yu. V. - TARASOV, S. E. - BYKOV, A. G. - PRISYAZHNAYA, N. V. - TENCHURIN, T. Kh. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - RESHETILOV, A. N. Carbon Fiber Anode of Biofuel Cell with Immobilized Bacteria and Membrane Fractions. In *NANOTECHNOLOGIES IN RUSSIA. ISSN 1995-0780, 2018, vol. 13, no. 9-10, pp. 531-538., Registrované v: WOS*
2. [1.1] PLEKHANOVA, Yulia - TARASOV, Sergei - KOLESOV, Vladimir - KUZNETSOVA, Iren - SIGNORE, Maria - QUARANTA, Fabio - RESHETILOV, Anatoly. Effects of Polymer Matrices and Carbon Nanotubes on the Generation of Electric Energy in a Microbial Fuel Cell. In *MEMBRANES. ISSN 2077-0375, 2018, vol. 8, no. 4, pp., Registrované v: WOS*
- ADDA06 BIELY, Peter - SLÁVIKOVÁ, Elena. New search for pectolytic yeasts. In *Folia microbiologica*, 1994, vol. 39, p. 485-488. (1993: 0.268 - IF, karentované - CCC). (1994 - Current Contents). ISSN 0015-5632.  
Citácie:
1. [1.2] PROTZKO, Ryan J. - LATIMER, Luke N. - MARTINHO, Ze - DE REUS, Elise - SEIBERT, Tanja - BENZ, J. Philipp - DUEBER, John E. Engineering *Saccharomyces cerevisiae* for co-utilization of d-galacturonic acid and d-glucose from citrus peel waste. In *Nature Communications*, 2018-12-01, 9, 1, pp., Registrované v: SCOPUS
- ADDA07 BÍLIK, Vojtěch - JURČOVÁ, E. - SUTORIS, V. Reactions of saccharides catalyzed by molybdate ions. XX. Preparation of epilactose and epimaltose. In *Chemické zvesti*, 1978, vol. 32, p. 252-257. ISSN 0366-6352.  
Citácie:
1. [1.1] ZIEGLER, Eric W. - KIM, Hyo-Joong - BENNER, Steven A. Molybdenum(VI)-Catalyzed Rearrangement of Prebiotic Carbohydrates in Formamide, a Candidate Prebiotic Solvent. In *ASTROBIOLOGY. ISSN 1531-1074, 2018, vol. 18, no. 9, pp. 1159-1170., Registrované v: WOS*
- ADDA08 BÍLIK, Vojtěch - PETRUŠ, Ladislav - MIŠÍKOVÁ, M. - SUTORIS, V. Contribution to the mechanism of the epimerization reaction. In *Chemické zvesti*, 1979, vol. 33, p. 114-117. ISSN 0366-6352.  
Citácie:

1. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS
- ADDA09 BÍLIK, Vojtech - STANKOVIČ, Ľudovít. Reactions of saccharides catalyzed by molybdate ions. VI. Epimerization of aldotetroses. In *Chemické zvesti*, 1973, vol. 27, p. 544-546. ISSN 0366-6352.  
Citácie:  
1. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS
- ADDA10 BÍLIK, Vojtech - TIHLÁRIK, Karol. Reactions of saccharides catalyzed by molybdate ions. IX. Epimerization of ketohexoses. In *Chemické zvesti*, 1974, vol. 28, p. 106-109. ISSN 0366-6352.  
Citácie:  
1. [1.1] BAYU, Asep - YOSHIDA, Akihiro - KARNJANAKOM, Surachai - ZUO, Zhijun - HAO, Xiaogang - ABUDULA, Abuliti - GUAN, Guoqing. An Effective Heterogeneous Catalyst of [BMIM](3)PMo12O40 for Selective Sugar Epimerization. In *CHEMPLUSCHEM*. ISSN 2192-6506, 2018, vol. 83, no. 5, pp. 383-389., Registrované v: WOS
- ADDA11 BLANÁRIKOVÁ, Vítázoslava - KARÁCSONYI, Š. The isolation of tissue culture of *Populus alba* L. "Pyramidalis". In *Biologia Plantarum*, 1978, vol. 20, p. 14-18. ISSN 0006-3134.  
Citácie:  
1. [1.2] RASHID, A. Cell physiology and genetics of higher plants: Volume II. In *Cell Physiology and Genetics of Higher Plants: Volume I*, 2018-01-01, pp. 1-189., Registrované v: SCOPUS
- ADDA12 BUČKO, Marek - MISLOVIČOVÁ, Danica - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica, Welwardová - ŠEFCOVIČOVÁ, Jana, Blahutová - KATRLÍK, Jaroslav - TKÁČ, Ján - GEMEINER, Peter - LACÍK, Igor - ŠTEFUCA, Vladimír - POLAKOVIČ, Milan - ROSENBERG, Michal - REBROŠ, Martin - ŠMOGROVIČOVÁ, Daniela - ŠVITEL, Juraj. Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. In *Chemical papers*, 2012, vol. 66, no. 11, p. 983 - 998. (2011: 1.096 - IF, 0.356 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0366-6352.  
Citácie:  
1. [1.2] EVTUGYN, Gennady - SUBJAKOVA, Veronika - MELIKISHVILI, Sopio - HIANIK, Tibor. Affinity Biosensors for Detection of Mycotoxins in Food. In *Advances in Food and Nutrition Research*. ISSN 10434526, 2018-01-01, 85, pp. 263-310., Registrované v: SCOPUS
- ADDA13 BYSTRICKÝ, Slavomír - MACHOVÁ, Eva - KOGAN, Grigorij. Preparation and characterisation of a biological carrier based on carboxymethyl cellulose. In *Chemical Papers - Chemické zvesti*, 1998, vol. 52, p. 374. (1997: 0.150 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0366-6352.  
Citácie:  
1. [1.1] ANTOSIK, Adrian K. - WILPISZEWSKA, Katarzyna. Natural composites based on polysaccharide derivatives: preparation and physicochemical properties. In *CHEMICAL PAPERS*. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 3215-3218., Registrované v: WOS
- ADDA14 CAPEK, Peter - KARDOŠOVÁ, Alžbeta - LATH, Dieter. A neutral heteropoly-saccharide from the flowers of *Malva mauritiana* L. In *Chemical Papers - Chemické zvesti*, 1999, vol. 53, p. 131-136. (1998: 0.140 - IF). ISSN 0366-6352.  
Citácie:  
1. [1.2] BEIGOMI, Maryam - MOHSENZADEH, Mohammad - SALARI, Amir. Characterization of a novel biodegradable edible film obtained from *Dracocephalum moldavica* seed mucilage. In *International Journal of Biological Macromolecules*. ISSN 01418130, 2018-03-01, 108, pp. 874-883., Registrované v: SCOPUS
- ADDA15 DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - CHU, Virginia - CONDE, João P. - KATRLÍK, Jaroslav. Surface plasmon resonance application in prostate cancer biomarker research. In *Chemical Papers*, 2015, vol. 69, p. 143-149. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.  
Citácie:  
1. [1.1] LAMBERT, Alexander - YANG, Zhanjun - CHENG, Wei - LU, Zhenda - LIU, Ying - CHENG, Quan. Ultrasensitive Detection of Bacterial Protein Toxins on Patterned Microarray via Surface Plasmon Resonance Imaging with Signal Amplification by Conjugate Nanoparticle Clusters. In *ACS SENSORS*. ISSN 2379-3694, 2018, vol. 3, no. 9, pp. 1639-1646., Registrované v: WOS
- ADDA16 DOČOLOMANSKÝ, Peter - FIALOVÁ, Ivana - BARANČÍK, Miroslav - RYBAR, Alfonz - BREIER, Albert. Prolongation of pentoxifylline aliphatic side chain positively affects the reversal of p-glycoprotein-mediated multidrug resistance in L1210/VCR line cells. In *General physiology and biophysics*, 2005, vol. 24, issue 4, p. 461-466. (2004: 0.694 - IF, karentované - CCC). (2005 - Current



Contents). ISSN 0231-5882.

Citácie:

1. [1.1] WANG, Ying - ZHAO, Yating - CUI, Yu - ZHAO, Qinfu - ZHANG, Qiang - MUSETTI, Sara - KINGHORN, Karina A. - WANG, Siling. Overcoming multiple gastrointestinal barriers by bilayer modified hollow mesoporous silica nanocarriers. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2018, vol. 65, no., pp. 405-416., Registrované v: WOS

ADDA17 DOLEJŠ, L. - HANUŠ, V. - VOTICKÝ, Zdeno - TOMKO, J. Alkaloids from *Buxus sempervirens* L. III. Mass spectral fragmentation. In Collection of Czechoslovak Chemical Communications, 1965, vol. 30, p. 2869-2874. ISSN 0010-0765.

Citácie:

1. [1.1] YAN, Yun-yi - AO, Lu-yao - ZHOU, Lin - LI, Cheng-yuan - FANG, Wei-rong - SHEN, Wei-yang - LIANG, Bing-wen - ZHU, Xiong - LI, Yun-man. Therapeutic effects of JLX001 on cerebral ischemia through inhibiting platelet activation and thrombus formation in rats. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2018, vol. 106, no., pp. 805-812., Registrované v: WOS

ADDA18 DUDÍKOVÁ, Jana - KOLAROVA, Nadežda. Extracellular polysaccharides produced by acapsular mutant of *Cryptococcus laurentii*. In Chemical Papers - Chemické zvesti, 2006, vol. 60, p. 69-70. ISSN 0366-6352.

Citácie:

1. [1.1] STRATILOVA, Barbora - KLAUDINY, Jaroslav - REHULKA, Pavel - STRATILOVA, Eva - MESZAROSOVA, Csilla - GARAJOVA, Sona - PAVLATOVSKA, Barbora - REHULKOVA, Helena - KOZMON, Stanislav - SESTAK, Sergej - FIRAKOVA, Zuzana - VADKERTIOVA, Renata. Characterization of a long-chain alpha-galactosidase from *Papiliotrema flavescens*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2018, vol. 34, no. 2, pp., Registrované v: WOS

ADDA19 EBRINGEROVÁ, Anna - PASTÝR, Ján. Sulfoethylierung von D-Xylanen in heterogener Phase. In Chemical Papers - Chemické zvesti, 1988, vol. 42, p. 407-414. ISSN 0366-6352.

Citácie:

1. [1.1] GABRIEL, Lars - HEINZE, Thomas. Diversity of polysaccharide structures designed by aqueous Ugi-multi-compound reaction. In *CELLULOSE*. ISSN 0969-0239, 2018, vol. 25, no. 5, pp. 2849-2859., Registrované v: WOS

ADDA20 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Chemical conjugation of biomacromolecules: A mini-review. In Chemical papers, 2010, vol. 64, p. 683-695. (2009: 0.791 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] GOROKHOV, V. Yu. - GOROKHOVA, S. M. - LYSTSOVA, E. A. Synthesis of 4-Methyl-2,6-di(9H-thioxanthen-9-yl)aniline. In *RUSSIAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1070-4280, 2018, vol. 54, no. 8, pp. 1260-1261., Registrované v: WOS  
2. [1.1] ORENHA, Renato P. - VESSECCI, Ricardo - GALEMBECK, Sergio E. The influence of the negative hyperconjugation is relevant for the analysis of the pi-pi\* conjugation with the mono-substitution and di-substitution of H<sub>2</sub>C= by O= and/or HN= in trans-but-1,3-diene? In *STRUCTURAL CHEMISTRY*. ISSN 1040-0400, 2018, vol. 29, no. 3, pp. 847-857., Registrované v: WOS  
3. [1.1] RAMOS-TOMILLERO, Ivan - PEREZ-CHACON, Gema - SOMOVILLA-CRESPO, Beatriz - SANCHEZ-MADRID, Francisco - MANUEL DOMINGUEZ, Juan - CUEVAS, Carmen - ZAPATA, Juan Manuel - RODRIGUEZ, Hortensia - ALBERICIO, Fernando. Bioconjugation through Mesitylene Thiol Alkylation. In *BIOCONJUGATE CHEMISTRY*. ISSN 1043-1802, 2018, vol. 29, no. 4, pp. 1199-1208., Registrované v: WOS

ADDA21 FARKAŠ, Vladimír - KOVAŘÍK, J. - KOŠINOVÁ, A. - BAUER, Štefan. An autoradiographic study of mannan incorporation into the growing cells of *Saccharomyces cerevisiae*. In Journal of Bacteriology, 1974, vol. 117, p. 265-269. ISSN 0021-9193.

Citácie:

1. [1.1] GIHANA, Gabriel M. - MUSSER, Tiffany R. - THOMPSON, Oscar - LACEFIELD, Soni. Prolonged cyclin-dependent kinase inhibition results in septin perturbations during return to growth and mitosis. In *JOURNAL OF CELL BIOLOGY*. ISSN 0021-9525, 2018, vol. 217, no. 7, pp. 2429-2443., Registrované v: WOS

ADDA22 FEDORŇKO, Michal. Electroreduction of DL-glyceraldehyde and D-forms of its 2,3-di-O-methyl- and 2,3-O-isopropylidene derivatives. In Chemical Papers - Chemické zvesti, 1987, vol. 41, p. 767-776. ISSN 0366-6352.

Citácie:

1. [1.1] JAMES, Olusola O. - SAUTER, Waldemar - SCHROEDER, Uwe. Towards selective electrochemical conversion of glycerol to 1,3-propanediol. In *RSC ADVANCES*. ISSN 2046-2069, 2018, vol. 8, no. 20, pp. 10818-10827., Registrované v: WOS



- ADDA23 FILIP, Jaroslav - KASÁK, Peter - TKÁČ, Ján. Graphene as signal amplifier for preparation of ultrasensitive electrochemical biosensors. In Chemical Papers, 2015, vol. 69, p. 112-133. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.
- Citácie:
- [1.1] ARYA, Sunil K. - ZHURAUSKI, Pavel - JOLLY, Pawan - BATISTUTI, Marina R. - MULATO, Marcelo - ESTRELA, Pedro. Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 102, no., pp. 106-112., Registrované v: WOS
  - [1.2] DAVIS, Frank - SHIMIZU, Flavio M. - ALTINTAS, Zeynep. Smart nanomaterials: Applications in biosensors and diagnostics. In *Biosensors and Nanotechnology: Applications in Health Care Diagnostics*, 2018-03-29, pp. 219-276., Registrované v: SCOPUS
- ADDA24 FILIPPOV, M.P. - KOHN, Rudolf. Determination of the esterification degree of carboxyl groups of pectin with methanol by means of infrared spectroscopy. In Chemické zvesti, 1975, vol. 29, p. 88-91. ISSN 0366-6352.
- Citácie:
- [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Cross-linking of sodium carbonate-soluble pectins from apple by zinc ions. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2018, vol. 196, no., pp. 1-7., Registrované v: WOS
  - [1.1] GAWKOWSKA, Diana - CYBULSKA, Justyna - ZDUNEK, Artur. Structure-Related Gelling of Pectins and Linking with Other Natural Compounds: A Review. In *POLYMERS*. ISSN 2073-4360, 2018, vol. 10, no. 7, pp., Registrované v: WOS
- ADDA25 FIRÁKOVÁ, Zuzana, Zemková - GARAJOVÁ, Soňa - FLODROVÁ, Dana - ŘEHULKA, Pavel - ZELKO, Ivan - VADKERTIOVÁ, Renáta - FARKAŠ, Vladimír - STRATILOVÁ, Eva. Incorporation of beta-(1,6)-linked glucooligosaccharides (pustulooligosaccharides) into plant cell wall structures. In Chemical papers, 2012, vol. 66, p. 814-820. (2011: 1.096 - IF, 0.356 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0366-6352.
- Citácie:
- [1.1] RUPRECHT, Colin - DALLABERNARDINA, Pietro - SMITH, Peter J. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Analyzing Xyloglucan Endotransglycosylases by Incorporating Synthetic Oligosaccharides into Plant Cell Walls. In *CHEMBIOCHEM*. ISSN 1439-4227, 2018, vol. 19, no. 8, pp. 793-798., Registrované v: WOS
- ADDA26 GEMEINER, Peter - BENEŠ, M.J. - ŠTAMBERG, J. Bead cellulose and its use in biochemistry and biotechnology. In Chemical Papers - Chemické zvesti, 1989, vol. 43, p. 805-848. ISSN 0366-6352.
- Citácie:
- [1.1] ISLAM, Ehteshamul - KAUR, Gurkiran - BHATTACHARJEE, Debarati - SINGH, Suman - BISWAS, Ipsita - VERMA, Sanjeev K. Effect of cellulose beads on shear-thickening behavior in concentrated polymer dispersions. In *COLLOID AND POLYMER SCIENCE*. ISSN 0303-402X, 2018, vol. 296, no. 5, pp. 883-893., Registrované v: WOS
- ADDA27 HRABÁROVÁ, Eva - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Pro-oxidative effect of peroxydinitrite regarding biological systems: a special focus on high-molar-mass hyaluronan degradation. In General Physiology and Biophysics, 2011, vol. 30, p. 223-238. (2010: 1.146 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0231-5882.
- Citácie:
- [1.1] SAVANI, R.C. Modulators of inflammation in Bronchopulmonary Dysplasia. In *SEMINARS IN PERINATOLOGY*. ISSN 0146-0005, 2018, vol. 42, no. 7, pp. 459-470., Registrované v: WOS
- ADDA28 HRICOVÍNIOVÁ, Zuzana\*\* - HRICOVÍNĽ, Michal - KOZICS, Katarína. New series of quinazolinone derived Schiff's bases: synthesis, spectroscopic properties and evaluation of their antioxidant and cytotoxic activity. In Chemical Papers, 2018, vol. 72, no. 4, p. 1041-1053. (2017: 0.963 - IF, Q4 - JCR, 0.306 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0366-6352. (VEGA č. 1/0041/15 : Fotoindukované procesy N-heterocyklov v homogénnych a heterogénnych systémoch: štruktúra versus reaktivita. VEGA 2/0027/16 : Antioxidačné, antikarcinogénne a fotoprotektívne účinky levanduľového oleja in vitro. VEGA 2/0022/18 : Nové prekurzory pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou).
- Citácie:
- [1.1] SUN, Ya-Quan - ZONG, Chao-Yang - JI, Jin-Yu - HAN, Qing. Efficient and library-friendly synthesis of 4-N-substituted 6-bromopyrido[2,3-d]pyrimidines under microwave irradiation. In *CHEMICAL PAPERS*. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 2965-2972., Registrované v: WOS
- ADDA29 HROMÁDKOVÁ, Zdenka - HIRSCH, Ján - EBRINGEROVÁ, Anna. Chemical evaluation of Fallopia species leaves and antioxidant properties of their non-cellulosic polysaccharides. In

Chemical papers, 2010, vol. 64, p. 663-672. (2009: 0.791 - IF, karentované - CCC). (2010 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] *BAISSISSE, Salima - FAHLOUL, Djamel. Rheological behavior and electrokinetic properties of pectin extracted from pumpkin (Cucurbita maxima) pulp and peel using hydrochloric acid solution. In CHEMICAL PAPERS. ISSN 0366-6352, 2018, vol. 72, no. 10, pp. 2647-2658., Registrované v: WOS*

2. [1.1] *MISHRA, Abhay Prakash - SHARIFI-RAD, Mehdi - SHARIATI, Mohammad Ali - MABKHOT, Yahia N. - AL-SHOWIMAN, Salim S. - RAUF, Abdur - SALEHI, Bahare - ZUPUNSKI, Milan - SHARIFI-RAD, Majid - GUSAIN, Poonam - SHARIFI-RAD, Javad - SULERIA, Hafiz Ansar Rasul - IRTI, Marcello. Bioactive compounds and health benefits of edible Rumex species-A review. In CELLULAR AND MOLECULAR BIOLOGY. ISSN 0145-5680, 2018, vol. 64, no. 8, pp. 27-34., Registrované v: WOS*

ADDA30 ILLKOVÁ, Kateřina - FIRÁKOVÁ, Zuzana, Zemková - FLODROVÁ, Dana - JÄGER, Jakub - BENKOVSKÁ, Dagmar - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - BOBÁLOVÁ, Janette - STRATILOVÁ, Eva. Production of Geotrichum candidum polygalacturonases via solid state fermentation on grape pomace. In Chemical Papers, 2012, vol. 66, p. 852-860. (2011: 1.096 - IF, 0.356 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] *EJAZ, Uroosa - AHMED, Asia - SOHAIL, Muhammad. Statistical optimization of immobilization of yeast cells on corn cob for pectinase production. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2018, vol. 14, no., pp. 450-456., Registrované v: WOS*

2. [1.1] *ZHU, Mingming - HE, Hongju - FAN, Mingtao - MA, Hanjun - REN, Haiwei - ZENG, Jie - GAO, Haiyan. Application and optimization of solid-state fermentation process for enhancing polygalacturonase production by Penicillium expansum. In INTERNATIONAL JOURNAL OF AGRICULTURAL AND BIOLOGICAL ENGINEERING. ISSN 1934-6344, 2018, vol. 11, no. 6, pp. 187-194., Registrované v: WOS*

ADDA31 JÚDOVÁ, Jana - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Preparation of recombinant most abundant protein MRJP1 of royal jelly. In Biologia, 1998, vol. 53, p. 777-784. (1997: 0.283 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] *RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264., Registrované v: WOS*

ADDA32 KAČÍKOVÁ, Danica - KAČÍK, František - BUBENÍKOVÁ, Tatiana - KOŠÍKOVÁ, Božena. Influence of fire on spruce wood lignin changes. In Wood Research : Vol. 53, no. 4 (2009), pp. 95-104. ISSN 1336-4561.

Citácie:

1. [1.1] *VYBOHOVA, Eva - KUCEROVA, Viera - ANDOR, Tomas - BALAZOVA, Zaneeta - VEL'KOVA, Veronika. The Effect of Heat Treatment on the Chemical Composition of Ash Wood. In BIORESOURCES. ISSN 1930-2126, 2018, vol. 13, no. 4, pp. 8394-8408., Registrované v: WOS*

ADDA33 KOHN, Rudolf. Potentiometric titration of polyuronic acids. In Chemické zvesti, 1973, vol. 27, p. 218-226. ISSN 0366-6352.

Citácie:

1. [1.1] *KIM, Sanghoon - BISWAS, Atanu - BODDU, Veera - HWANG, Hong-Sik - ADKINS, Jason. Solubilization of cashew gum from Anacardium occidentale in aqueous medium. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2018, vol. 199, no., pp. 205-209., Registrované v: WOS*

ADDA34 KOHN, Rudolf. Spectrophotometric determination of magnesium, calcium, strontium and barium present in pairs by use of tetramethylmurexide. In Chemické zvesti, 1969, vol. 23, p. 721-735. ISSN 0366-6352.

Citácie:

1. [1.1] *LEE, Boon-Beng - BHANDARI, Bhesh R. - HOWES, Tony. Quantification of calcium alginate gel formation during ionic cross-linking by a novel colourimetric technique. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2017, vol. 533, no., pp. 116-124., Registrované v: WOS*

ADDA35 KOHN, Rudolf - KOVÁČ, Pavol. Dissociation constants of D-galacturonic and D-glucuronic acids and their O-methyl derivatives. In Chemické zvesti, 1978, vol. 32, p. 478-485. ISSN 0366-6352.

Citácie:

1. [1.1] *ALLAN, Matthew C. - RAJWA, Bartek - MAUER, Lisa J. Effects of sugars and sugar alcohols on the gelatinization temperature of wheat starch. In FOOD HYDROCOLLOIDS. ISSN*

- 0268-005X, 2018, vol. 84, no., pp. 593-607., Registrované v: WOS
2. [1.1] DE LEON-RODRIGUEZ, Carlos M. - FU, Man Shun - OSMAN CORBALI, M. - CORDERO, Radames J. B. - CASADEVALL, Arturo. *The Capsule of Cryptococcus neoformans Modulates Phagosomal pH through Its Acid-Base Properties*. In *MSPHERE*. ISSN 2379-5042, 2018, vol. 3, no. 5, pp., Registrované v: WOS
3. [1.1] FAHAMI, Arezoo - FATHI, Milad. *Development of cress seed mucilage/PVA nanofibers as a novel carrier for vitamin A delivery*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 81, no., pp. 31-38., Registrované v: WOS
4. [1.1] GHANTA, Mohankrishna - PANCHANATHAN, Elango - LAKKAKULA, Bhaskar Venkata Kameswara Subrahmanya - NARAYANASWAMY, Anbumani - ABHINAND, P. A. - ANTONY, Stalin. *Molecular docking analysis of phytoconstituent from Momordica charantia with Guanylate Cyclase catalytic domain*. In *BIOINFORMATION*. ISSN 0973-8894, 2018, vol. 14, no. 7, pp. 378-383., Registrované v: WOS
5. [1.1] GREIN-IANKOVSKI, Aline - FERREIRA, Jose G. L. - ORTH, Elisa S. - SIERAKOWSKI, Maria-Rita - CARDOSO, Mateus Borba - SIMAS, Fernanda F. - RIEGEL-VIDOTTI, Izabel C. *A comprehensive study of the relation between structural and physical chemical properties of acacia gums*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 85, no., pp. 167-175., Registrované v: WOS
6. [1.1] KAVOUSI, Hamid R. - FATHI, Milad - GOLI, Seyed A. H. *Novel cress seed mucilage and sodium caseinate microparticles for encapsulation of curcumin: An approach for controlled release*. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2018, vol. 110, no., pp. 126-135., Registrované v: WOS
7. [1.1] MANAWI, Yehia - MCKAY, Gordon - ISMAIL, Norafiqah - FARD, Ahmad Kayvani - KOCHKODAN, Viktor - ATIEH, Muataz Ali. *Enhancing lead removal from water by complex-assisted filtration with acacia gum*. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2018, vol. 352, no., pp. 828-836., Registrované v: WOS
8. [1.1] PASSOS, Claudia P. - FERREIRA, Sonia S. - SERODIO, Antonio - BASIL, Eva - MARKOVA, Lucie - KUKUROVA, Kristina - CIESAROVA, Zuzana - COIMBRA, Manuel A. *Pectic polysaccharides as an acrylamide mitigation strategy Competition between reducing sugars and sugar acids*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2018, vol. 81, no., pp. 113-119., Registrované v: WOS
9. [1.1] PURUSHOTHAMAN, Rajeesh Kumar Pazhavelikkakath - VAN DER KLIS, F. - FRISSEN, A. E. - VAN HAVEREN, J. - MAYORAL, A. - VAN DER BENT, A. - VAN ES, D. S. *Base-free selective oxidation of pectin derived galacturonic acid to galactaric acid using supported gold catalysts*. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2018, vol. 20, no. 12, pp. 2763-2774., Registrované v: WOS
10. [1.1] SAMPERIO-RAMOS, Guillermo - MAGDALENA SANTANA-CASIANO, J. - GONZALEZ-DAVILA, Melchor. *Effect of Organic Fe-Ligands, Released by Emiliana huxleyi, on Fe(II) Oxidation Rate in Seawater Under Simulated Ocean Acidification Conditions: A Modeling Approach*. In *FRONTIERS IN MARINE SCIENCE*, 2018, vol. 5, no., pp., Registrované v: WOS
11. [1.1] SILVESTER, Ewen - KLEIN, Annaleise R. - WHITWORTH, Kerry L. - PUSKAR, Ljiljana - TOBIN, Mark J. *Synchrotron infrared microspectroscopy reveals the response of Sphagnum cell wall material to its aqueous chemical environment*. In *ENVIRONMENTAL CHEMISTRY*. ISSN 1448-2517, 2018, vol. 15, no. 8, pp. 513-521., Registrované v: WOS

ADDA36

KOHN, Rudolf - FURDA, I. *Binding of calcium ions to acetyl derivatives of pectin*. In *Collection of Czechoslovak Chemical Communications*, 1968, vol. 33, p. 2217-2225. ISSN 0010-0765.

Citácie:

1. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. *Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities*. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY*. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS
2. [1.1] GUO, Xiaoming - MENG, Hecheng - TANG, Qiang - PAN, Runquan - ZHU, Siming - YU, Shujuan. *Effects of the precipitation pH on the ethanolic precipitation of sugar beet pectins*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2016, vol. 52, no., pp. 431-437., Registrované v: WOS

ADDA37

KOHN, Rudolf - LUKNÁR, O. *Intermolecular calcium binding on polyuronates-polygalacturonate*. In *Collection of Czechoslovak Chemical Communications*, 1977, vol. 42, p. 731-744. ISSN 0010-0765.

Citácie:

1. [1.1] CELUS, Miete - KYOMUGASHO, Clare - VAN LOEY, Ann M. - GRAUWET, Tara - HENDRICKX, Marc E. *Influence of Pectin Structural Properties on Interactions with Divalent Cations and Its Associated Functionalities*. In *COMPREHENSIVE REVIEWS IN FOOD SCIENCE*



- AND FOOD SAFETY. ISSN 1541-4337, 2018, vol. 17, no. 6, pp. 1576-1594., Registrované v: WOS*
- ADDA38 KOHN, Rudolf - MARKOVIČ, Oskar - MACHOVÁ, Eva. Deesterification mode of pectin by pectiesterases of *Aspergillus foetidus*, tomatoes, and alfalfa. In Collection of Czechoslovak Chemical Communications, 1983, vol. 48, p. 790-792. ISSN 0010-0765.  
Citácie:  
1. [1.1] *LIU, Nana - SUN, Yun - PEI, Yakun - ZHANG, Xueyan - WANG, Ping - LI, Xiancai - LI, Fuguang - HOU, Yuxia. A Pectin Methyltransferase Inhibitor Enhances Resistance to Verticillium Wilt. In PLANT PHYSIOLOGY. ISSN 0032-0889, 2018, vol. 176, no. 3, pp. 2202-2220., Registrované v: WOS*
- ADDA39 KÓŇA, Juraj - TVAROŠKA, Igor. Comparative DFT study on the alfa-glycosidic bond in reactive species of galactosyl diphosphates. In Chemical papers, 2009, vol. 63, no. 5, p.598-607. (2008: 0.758 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0366-6352.  
Citácie:  
1. [1.2] *JAÑA, Gonzalo A. - MENDOZA, Fernanda - OSORIO, Manuel I. - ALDERETE, Joel B. - FERNANDES, Pedro A. - RAMOS, Maria J. - JIMÉNEZ, Verónica A. A QM/MM approach on the structural and stereoelectronic factors governing glycosylation by GTF-SI from: Streptococcus mutans. In Organic and Biomolecular Chemistry. ISSN 14770520, 2018-01-01, 16, 14, pp. 2438-2447., Registrované v: SCOPUS*
- ADDA40 KOŇS, Miroslav - STEINER, Bohumil - REPÁŠ, Milan. Influence of structure on antimicrobial activity of some heterocycles. I. Alkylpyrazoles and alkylisoxazoles. In Chemical Papers - Chemické zvesti, 1991, vol. 45, p. 279-286. ISSN 0366-6352.  
Citácie:  
1. [1.1] *CORED, Jorge - CRESPO, Olga - LUIS SERRANO, Jose - ELDUQUE, Anabel - GIMENEZ, Raquel. Decisive Influence of the Metal in Multifunctional Gold, Silver, and Copper Metallacycles: High Quantum Yield Phosphorescence, Color Switching, and Liquid Crystalline Behavior. In INORGANIC CHEMISTRY. ISSN 0020-1669, 2018, vol. 57, no. 20, pp. 12632-12640., Registrované v: WOS*
- ADDA41 KOŇS, Miroslav - STEINER, Bohumil - REPÁŠ, Milan - SASINKOVÁ, Vlasta. Preparation and characteristics of some 2,5- and 2,3,5-substituted oxazolidines. In Chemical papers. - Heidelberg : Springer-Verlag, 2017-, 1984, vol. 38, p. 699. ISSN 0366-6352.  
Citácie:  
1. [1.1] *SINGH, Nasseb - DAR, Alamgir A. - KUMAR, Anil. A Simple and Efficient Approach for the Synthesis of 1,3-Oxazolidines from beta-Amino Alcohols Using Grinding Technique. In CHEMISTRYSELECT. ISSN 2365-6549, 2018, vol. 3, no. 48, pp. 13675-13681., Registrované v: WOS*
- ADDA42 KOŠTÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Chemical evaluation of seeded fruit biomass of oil pumpkin (*Curcubita pepo* L. var. *Styriaca*). Anna Ebringerová. In Chemical papers, 2009, vol. 63, no. 4, pp.406-413. (2008: 0.758 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0366-6352.  
Citácie:  
1. [1.1] *Rodríguez R, Robert Augusto; Valdés R, Magda Piedad; Ortiz G, Sanin. Agronomics characteristics and nutritional quality of fruits and seeds of pumpkin Cucurbita sp. In: Revista colombiana de ciencia animal recia Vol. 10 (2018), Issue: 1, p. 86-97, Registrované v: WOS*  
2. [1.1] *TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS*  
3. [3.1] *Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). Alcayota Gum Films: Experimental Reviews. In: JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING. ISSN 2327-6045, Vol. 6 (2018), p. 11-58*
- ADDA43 KOVÁČ, Pavol - PALOVČÍK, R.. Synthesis and reactions of uronic acid derivatives. XVII. Synthesis of methyl 2-O-(methyl 4-O-methyl- $\alpha$ - and - $\beta$ -D-glucopyranosyluronate)- $\beta$ -D-xylopyranoside. In Chemické zvesti, 1978, vol. 32, p. 501-513. ISSN 0366-6352.  
Citácie:  
1. [1.1] *MONRAD, Rune Nygaard - EKLOF, Jens - KROGH, Kristian B. R. M. - BIELY, Peter. Glucuronoyl esterases: diversity, properties and biotechnological potential. A review. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2018, vol. 38, no. 7, pp. 1121-1136., Registrované v: WOS*
- ADDA44 KOZMON, Stanislav - TVAROŠKA, Igor. Molecular dynamic studies of amyloid-beta interactions with curcumin and Cu<sup>2+</sup> ions. In Chemical Papers, 2015, vol. 69, p. 1262-1276. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.



## Citácie:

1. [1.1] CHEN, Min - DU, Zhi-Yun - ZHENG, Xi - LI, Dong-Li - ZHOU, Ren-Ping - ZHANG, Kun. Use of curcumin in diagnosis, prevention, and treatment of Alzheimer's disease. In NEURAL REGENERATION RESEARCH. ISSN 1673-5374, 2018, vol. 13, no. 4, pp. 742-752., Registrované v: WOS

2. [1.1] MUTTER, Shaun T. - DEETH, Robert J. - TURNER, Matthew - PLATTS, James A. Benchmarking of copper(II) LFMM parameters for studying amyloid- peptides. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2018, vol. 36, no. 5, pp. 1145-1153., Registrované v: WOS

ADDA45 KREMnický, Ľubomir - SLÁVIKOVÁ, Elena - MISLOVIČOVÁ, Danica - BIELY, Peter. Production of extracellular beta - mannanases by yeasts and yeast-like microorganisms. In Folia microbiologica, 1996, vol. 41, p. 43-47. (1995: 0.147 - IF, karentované - CCC). (1996 - Current Contents). ISSN 0015-5632.

## Citácie:

1. [1.1] BOZOUDI, Despina - TSALTAS, Dimitrios. The Multiple and Versatile Roles of Aureobasidium pullulans in the Vitivinicultural Sector. In FERMENTATION-BASEL, 2018, vol. 4, no. 4, pp., Registrované v: WOS

ADDA46 MARKOVIČ, Oskar - HEINRICHOVÁ, Kvetoslava - LENKEY, B. Pectolytic enzymes from banana. In Collection of Czechoslovak Chemical Communications, 1975, vol. 40, p. 769-774. ISSN 0010-0765.

## Citácie:

1. [1.1] RESENDE, N. S. - GONCALVES, G. A. S. - REIS, K. C. - TONOLI, G. H. D. - BOAS, E. V. B. V. Chitosan/Cellulose Nanofibril Nanocomposite and Its Effect on Quality of Coated Strawberries. In JOURNAL OF FOOD QUALITY. ISSN 0146-9428, 2018, vol., no., pp., Registrované v: WOS

ADDA47 MARKOVIČ, Oskar - MOLNÁR, L. Isolation and determination of honeybee poison. In Chemické zvesti, 1954, vol. 8, p. 88-90. ISSN 0366-6352.

## Citácie:

1. [1.1] ABD EL-WAHED, Aida A. - KHALIFA, Shaden A. M. - SHEIKH, Bassem Y. - FARAG, Mohamed A. - SAEED, Aamer - LARIK, Fayaz A. - KOCA-CALISKAN, Ufuk - ALAJMI, Mohamed F. - HASSAN, Moustapha - WAHABI, Habibah A. - HEGAZY, Mohamed-Elamir F. - ALGETHAMI, Ahmed F. - BUTTNER, Sabrina - EL-SEEDI, Hesham R. Bee Venom Composition: From Chemistry to Biological Activity. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 459-484., Registrované v: WOS

ADDA48 MASÁROVÁ, Jana - MISLOVIČOVÁ, Danica - GEMEINER, Peter. Optimization of dextran and mannan dialdehydes preparation and examination of their biospecific interaction with Concanavalin A. In Chemical Papers - Chemické zvesti, 2001, vol. 55, p. 130-135. ISSN 0366-6352.

## Citácie:

1. [1.1] BENITO-VILLALVILLA, Cristina - SORIA, Irene - LUIS SUBIZA, Jose - PALOMARES, Oscar. Novel vaccines targeting dendritic cells by coupling allergoids to mannan. In ALLERGO JOURNAL. ISSN 0941-8849, 2018, vol. 27, no. 8, pp. 34-40., Registrované v: WOS

ADDA49 MAZÍKOVÁ, Viera - SROKOVA, I. - EBRINGEROVÁ, Anna. Solvent-free synthesis and properties of carboxymethyl starch fatty acid ester derivatives. Anna Ebringerová. In Chemical papers, 2009, vol. 63, no. 1, p.71-76. (2008: 0.758 - IF, karentované - CCC). (2009 - Current Contents). ISSN 0366-6352.

## Citácie:

1. [1.1] ANTOSIK, Adrian K. - WILPISZEWSKA, Katarzyna. Natural composites based on polysaccharide derivatives: preparation and physicochemical properties. In CHEMICAL PAPERS. ISSN 2585-7290, 2018, vol. 72, no. 12, pp. 3215-3218., Registrované v: WOS

ADDA50 PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BYSTRICKÝ, Peter - MATULOVÁ, Mária - PÄTORSTÝ, Vladimír - WILSON, I.B.H. - MUCHA, Ján. Comparative ESI FT-MS and MALDI-TOF structural analyses of representative human N-linked glycans. In Chemical Papers, 2015, vol. 69, p. 1633-1638. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.

## Citácie:

1. [1.1] DAMBORSKY, Pavel - DAMBORSKA, Dominika - BELICKY, Stefan - TKAC, Jan - KATRLIK, Jaroslav. Sweet Strategies in Prostate Cancer Biomarker Research: Focus on a Prostate Specific Antigen. In BIONANOSCIENCE. ISSN 2191-1630, 2018, vol. 8, no. 2, pp. 690-700., Registrované v: WOS

ADDA51 SLAMEŇOVÁ, Darina - HORVÁTHOVÁ, Eva - LÁBAJ, Juraj - KOŠÍKOVÁ, Božena - MAŠTEROVÁ, Irena - BARTKOVÁ, Miriam - KRAJČOVIČOVÁ, Zdenka. Reduction of DNA-damaging effects of anti-HIV drug 3'-azido-3'-dideoxythymidine on human cells by ursolic acid and lignin biopolymer. In Neoplasma, 2006, vol. 53, no. 6, p. 485-491. (2005: 0.731 - IF, karentované -

CCC). (2006 - Current Contents). ISSN 0028-2685.

Citácie:

1. [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca. Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297.*, Registrované v: WOS

2. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zeyun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances, 2018-01-01, pp. 169-205.*, Registrované v: SCOPUS

ADDA52 STANKOVSKÁ, Monika - ŠOLTÉS, Ladislav - VIKARTOVSKÁ, Alica, Welwardová - GEMEINER, Peter - KOGAN, Grigorij - BAKOŠ, Dušan. Degradation of high-molecular-weight hyaluronan: a rotational viscometry study. In *Biologia*, 2005, vol. 60, suppl. 17, p. 149-152. (2004: 0.207 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0006-3088.

Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4*

ADDA53 SUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - JOSKOVA, Marta - SUTOVSKÝ, Juraj - MARCINEK, J. - KALMAN, Michal. Antitussive activity of *Althaea officinalis* L. polysaccharide rhamnogalacturonan and its changes in guinea pigs with ovalbumin-induced airways inflammation. In *Bratislava Medical Journal*, 2011, vol. 112, p. 670-675. (2010: 0.345 - IF, karentované - CCC). (2011 - Current Contents). ISSN 0006-9248.

Citácie:

1. [1.1] RAPIEJKO, Piotr - JURKIEWICZ, Dariusz - PIETRUSZEWSKA, Wioletta - ZIELNIK-JURKIEWICZ, Beata - WORON, Jaroslaw - LIPIEC, Agnieszka. Treatment strategy of allergic rhinitis in the face of modern world threats. In *POLISH JOURNAL OF OTOLARYNGOLOGY. ISSN 0030-6657, 2018, vol. 72, no. 2, pp. 1-11.*, Registrované v: WOS

2. [1.2] APPEL, Kurt - SACHA, Manuel - WEGENER, Tankred. On the adhesive properties of the marshmallow root *Althaea officinalis* L., radix. In *Zeitschrift für Phytotherapie. ISSN 0722348X, 2018-01-01, 39, 5, pp. 203-209.*, Registrované v: SCOPUS

ADDA54 ŠEĽČOVIČOVÁ, Jana, Blahutová - FILIP, Jaroslav - TKÁČ, Ján. Interfacing of microbial cells with nanoparticles: Simple and cost-effective preparation of a highly sensitive microbial ethanol biosensor. In *Chemical Papers*, 2015, vol. 69, p. 176-182. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] NAKAMURA, Hideaki. Current status of water environment and their microbial biosensor techniques Part II: Recent trends in microbial biosensor development. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2018, vol. 410, no. 17, pp. 3967-3989.*, Registrované v: WOS

ADDA55 ŠEĽČOVIČOVÁ, Jana, Blahutová - TKÁČ, Ján. Application of nanomaterials in microbial-cell biosensor constructions. In *Chemical Papers*, 2015, vol. 69, p. 42-53. (2014: 1.468 - IF, Q3 - JCR, 0.380 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] AKBARI, Alireza - DERAKHSHESH, Minoo - ABRISHAMI, Majid Ebrahimzadeh. Nitrate ion effect on gold nanorods plasmon resonance behavior: A potential chemical sensor. In *INORGANIC CHEMISTRY COMMUNICATIONS. ISSN 1387-7003, 2018, vol. 98, no., pp. 159-164.*, Registrované v: WOS

2. [1.1] LAI, Huasheng - XU, Fugang - WANG, Li. A review of the preparation and application of magnetic nanoparticles for surface-enhanced Raman scattering. In *JOURNAL OF MATERIALS SCIENCE. ISSN 0022-2461, 2018, vol. 53, no. 12, pp. 8677-8698.*, Registrované v: WOS

ADDA56 ŠIMÚTH, Jozef. Molecular and functional properties of royal jelly proteins. In *Chemical Papers - Chemické zvesti*, 1998, vol. 52, special Issue: SI, p. 311-311. (1997: 0.150 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] RAMANATHAN, Ajitha Nath Koomankode Ganapathi - NAIR, Ananthakrishnan Jayakumaran - SUGUNAN, Vetha Sundaram. A review on Royal Jelly proteins and peptides. In *JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2018, vol. 44, no., pp. 255-264.*, Registrované v: WOS

ADDA57 ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - FRAŇOVÁ, Soňa - KARDOŠOVÁ, Alžbeta. The antitussive activity of polysaccharides from *Althaea officinalis* L., var. *Robusta*, *Arctium lappa* L., var. *Herkules*, and *Prunus persica* L., Batsch. In *Bratislava Medical Journal*, 2007, vol. 108, p. 93-99.

ISSN 0006-9248.

Citácie:

- [1.1] DEHDARI, Sahar - HAJIMEHDIPOOR, Homa. Medicinal Properties of *Adiantum capillus-veneris* Linn. in *Traditional Medicine and Modern Phytotherapy: A Review Article*. In *IRANIAN JOURNAL OF PUBLIC HEALTH*. ISSN 2251-6085, 2018, vol. 47, no. 2, pp. 188-197., Registrované v: WOS
- [1.1] MAHBOUBI, Mohaddese. Management of acute cough by *Zataria multiflora* Boiss as an alternative treatment. In *JOURNAL OF INTEGRATIVE MEDICINE-JIM*. ISSN 2095-4964, 2018, vol. 16, no. 1, pp. 20-25., Registrované v: WOS
- [1.2] ALEEBRAHIM-DEHKORDY, Elahe - ANSARIPOUR, Sadra - RAFIEIAN-KOPAEI, Mahmoud - SABERIANPOUR, Shirin. Effects of substances on plants'; active compounds on changes in the hormone levels of the pituitary-thyroid axis in hyperthyroidism and hypothyroidism. In *Pharmacognosy Reviews*. ISSN 09737847, 2018-01-01, 12, 23, pp. 1-6., Registrované v: SCOPUS

ADDA58

TAMÁS, Ladislav - HUTTOVÁ, Jana - MISTRÍK, Igor - KOGAN, Grigorij. Effect of carboxymethyl chitin-glucan on the Activity of some hydrolytic enzymes in maize plants. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 2002, vol. 56, no. 5, p. 326-329. ISSN 0366-6352.

Citácie:

- [1.1] KUMAR, M. Rajesh - MANIKANDAN, A. - SIVAKUMAR, A. - DHAYABARAN, V. Violet. An eco-friendly catalytic system for multicomponent, one-pot synthesis of novel spiro-chromeno indoline-triones and their anti-prostate cancer potentials evaluated via alkaline phosphatase inhibition mechanism. In *BIOORGANIC CHEMISTRY*. ISSN 0045-2068, DEC 2018, vol. 81, p. 44-54., Registrované v: WOS
- [1.1] LOTFALIKHANI, A. - KHOSRAVI, Y. - SABET, N. S. - NA, S. L. - NG, K. P. - TAY, S. T. Genetic diversity, antifungal susceptibility and enzymatic characterisation of Malaysian clinical isolates of *Candida glabrata*. In *TROPICAL BIOMEDICINE*. ISSN 0127-5720, DEC 2018, vol. 35, no. 4, p. 1123-1130., Registrované v: WOS
- [1.1] SAFWAT, Engie - HASSAN, Mohammad L. - SANIOUR, Sayed - ZAKI, Dalia Yehia - ELDEFTAR, Mervat - SABA, Dalia - ZAZOU, Mohamed. Injectable TEMPO-oxidized nanofibrillated cellulose/biphasic calcium phosphate hydrogel for bone regeneration. In *JOURNAL OF BIOMATERIALS APPLICATIONS*. ISSN 0885-3282, MAY 2018, vol. 32, no. 10, p. 1371-1381., Registrované v: WOS
- [1.1] SALMAN, Zainab Ali - AZEEZ, Rasha Abbas - YASEEN, Abeer Khalid - AL-RUBAEE, Eaman A. EFFECT OF ZINC OXIDE NANOPARTICLES ON SERUM ALKALINE PHOSPHATASE ACTIVITY IN MALE MICE. In *Biochemical and Cellular Archives*. ISSN 0972-5075, OCT 2018, vol. 18, no. 2, p. 1715-1719., Registrované v: WOS

ADDA59

TREBATICÁ, Mária - SVIDOVÁ, Soňa - GROLMUS, Ján - RAUKO, Peter - KOGAN, Grigorij - MIADOKOVÁ, Eva. Sulphoethyl glucan - a biological active polysaccharide. In *Biologia*, 2005, vol. 60, suppl. 17, p. 121-123. (2004: 0.207 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0006-3088.

Citácie:

- [1.1] PIMENTEL, Emilio - CRUCES, Martha P. Antimutagenic action of the live yeast can be transmitted to the offspring of *Drosophila melanogaster*. A genetic study using the wing spot assay. In *ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY*. ISSN 1382-6689, 2018, vol. 57, no., pp. 28-33., Registrované v: WOS

ADDA60

VIVODOVÁ, Zuzana, Vatehová - KOLLÁROVÁ, Karin - ZELKO, Ivan - KUČEROVÁ, Danica, Richterová - BUJDOŠ, Marek - LIŠKOVÁ, Desana. Interaction of silicon and cadmium in *Brassica juncea* and *Brassica napus*. In *Biologia : journal of the Slovak Academy of Sciences*, 2012, vol. 67, no. 3, p. 498-504. (2011: 0.557 - IF, 0.251 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-3088.

Citácie:

- [1.1] RIZWAN, Muhammad - ALI, Shafaqat - REHMAN, Muhammad Zia ur - RINKLEBE, Joerg - TSANG, Daniel C. W. - BASHIR, Arooj - MAQBOOL, Arosha - TACK, F. M. G. - OK, Yong Sik. Cadmium phytoremediation potential of *Brassica* crop species: A review. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2018, vol. 631-632, no., pp. 1175-1191., Registrované v: WOS

ADDA61

VLČKOVÁ, Viera - NAĐOVÁ, S. - DÚHOVÁ, V. - ZÁVODNÁ, K. - MORÁŇOVÁ, Z. - RAUKO, Peter - KOGAN, Grigorij - MIADOKOVÁ, Eva. Natural microbial polysaccharide sulphoethyl glucan as antigenotoxic and cancer preventing agent. In *Neoplasma*. - Bratislava : Ústav experimentálnej onkológie, Biomedicínske centrum SAV, 1954-, 2006, vol. 53, no. 6, p. 524-529. (2005: 0.731 - IF, karentované - CCC). (2006 - Current Contents). ISSN 0028-2685.

Citácie:

- [1.1] APROTOSOAI, Ana Clara - LUCA, Vlad Simon - TRIFAN, Adriana - MIRON, Anca.

*Antigenotoxic Potential of Some Dietary Non-phenolic Phytochemicals. In STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 60. ISSN 1572-5995, 2018, vol. 60, no., pp. 223-297., Registrované v: WOS*

2. [1.2] KUSHWAHA, Prem Prakash - TIWARI, Ashish - KUMAR, Shashank. Bioactive carbohydrates. In *Secondary Metabolite and Functional Food Components: Role in Health and Disease*, 2018-01-01, pp. 197-222., Registrované v: SCOPUS

3. [1.2] QIANG, Zheng Ze - WANG, Yan - LI, Shuo - WANG, Ming Wei - LI, Cheng Yi. Structure and activity of Hedysari Radix polysaccharides and its derivatives. In *Chinese Journal of New Drugs. ISSN 10033734, 2018-10-15, 27, 19, pp. 2271-2280., Registrované v: SCOPUS*

ADDA62

ZICHOVÁ, Miroslava - STRATILOVÁ, Eva - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - BABÁK, Libor - ROSENBERG, Michal. Production of ethanol from waste paper using immobilized yeasts. In *Chemical Papers*, 2017, vol. 71, p. 553-561. (2016: 1.258 - IF, Q3 - JCR, 0.347 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] ABDULKAREEM, Rafid A. - MUALLAH, Shatha K. - GHASEM, Najafpour D. - MOSTAFA, Rahimnejad - SAEED, Osama F. Optimization of enzymatic conversion of waste office paper using response surface methodology for bioethanol production. In *Biochemical and Cellular Archives. ISSN 09725075, 2018-01-01, 18, pp. 1389-1395., Registrované v: WOS*

#### ADDB Vedecké práce v domácich karentovaných časopisoch – neimpaktovaných

ADDB01

BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. II. Epimerization of D-glucose and D-mannose. In *Chemické zvesti*, 1972, vol.26, s. 183-186.

Citácie:

1. [1.1] BAYU, Asep - YOSHIDA, Akihiro - KARNJANAKOM, Surachai - ZUO, Zhijun - HAO, Xiaogang - ABUDULA, Abuliti - GUAN, Guoqing. An Effective Heterogeneous Catalyst of [BMIM](3)PMo12O40 for Selective Sugar Epimerization. In *CHEMPLUSCHEM. ISSN 2192-6506, 2018, vol. 83, no. 5, pp. 383-389., Registrované v: WOS*

2. [1.1] BUENDIA-KANDIA, Felipe - MAUVIEL, Guillaín - GUEDON, Emmanuel - RONDAGS, Emmanuel - PETITJEAN, Dominique - DUFOUR, Anthony. Decomposition of Cellulose in Hot-Compressed Water: Detailed Analysis of the Products and Effect of Operating Conditions. In *ENERGY & FUELS. ISSN 0887-0624, 2018, vol. 32, no. 4, pp. 4127-4138., Registrované v: WOS*

3. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS*

ADDB02

BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. IV. Epimerization of aldopentoses. In *Chemické zvesti*, 1972, vol. 26, p. 372-375. ISSN 0366-6352.

Citácie:

1. [1.1] MEGIAS-SAYAGO, Cristina - ALVAREZ, Eleuterio - IVANOVA, Svetlana - ANTONIO ODRIOZOLA, Jose. Epimerization of glucose over ionic liquid/phosphomolybdate hybrids: structure-activity relationship. In *GREEN CHEMISTRY. ISSN 1463-9262, 2018, vol. 20, no. 5, pp. 1042-1049., Registrované v: WOS*

#### ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

ADEA01

FORANO, E. - DELORT, A.-M. - MATULOVÁ, Mária. Carbohydrate metabolism in Fibrobacter succinogenes: What NMR tell us. In *Microbial Ecology in Health and Disease : Official Journal of the Society of Microbial Ecology in Health and Disease*, 2008, vol.20, p. 94-102. ISSN 0891-060X.

Citácie:

1. [1.1] KIKUCHI, Jun - ITO, Kengo - DATE, Yasuhiro. Environmental metabolomics with data science for investigating ecosystem homeostasis. In *PROGRESS IN NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY. ISSN 0079-6565, 2018, vol. 104, no., pp. 56-88., Registrované v: WOS*

2. [1.1] XIE, Xiao - YANG, Chunlei - GUAN, Le L. - WANG, Jiakun - XUE, Mingyuan - LIU, Jian X. Persistence of Cellulolytic Bacteria Fibrobacter and Treponema After Short-Term Corn Stover-Based Dietary Intervention Reveals the Potential to Improve Rumen Fibrolytic Function. In *FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS*

#### ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01

HROMÁDKOVÁ, Zdenka - STAVOVÁ, A. - EBRINGEROVÁ, Anna - HIRSCH, Ján. Effect of buckwheat hull hemicelluloses addition on the bread-making quality of wheat flour. In *Journal of*



Food and Nutrition Research, 2007, vol. 46, p. 158-166. ISSN 1336-8672.

Citácie:

1. [1.1] SAKAČ, Marijana - JOVANOVIĆ, Pavle - PESTORIĆ, Mladenka - SEDEJ, Ivana. Buckwheat flour as an ingredient for value-added bread, pasta and confectionery products. In *Buckwheat: Composition, Production and Uses*, 2018-08-17, pp. 99-178., Registrované v: SCOPUS

2. [1.1] STAROWICZ, Malgorzata - KOUTSIDIS, Georgios - ZIELINSKI, Henryk. Sensory analysis and aroma compounds of buckwheat containing products-a review. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2018, vol. 58, no. 11, pp. 1767-1779., Registrované v: WOS

ADEB02 TOPOĽSKÁ, Dominika - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - RAPTA, Peter - BAŇASOVÁ, Mária - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Determination of protective properties of Bardejovské Kupele spa curative waters by rotational viscometry and ABTS assay. In *Balneo Research Journal*, 2014, vol. 5, no. 1, p. 3-15. ISSN 2069-7597.

Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

#### ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

ADFB01 DŘÍMAL, Ján - KNEZL, Vladimír - NAVAROVÁ, Jana - NEDELČEVOVÁ, Jana - PAULOVICHOVÁ, Ema - SOTNÍKOVÁ, Ružena - ŠNIRC, Vladimír - DŘÍMAL, Daniel. Role of inflammatory cytokines and chemoattractants in the rat model of streptozotocin-induced diabetic heart failure. In *Endocrine Regulations*, 2008, vol. 42, p. 129-135. ISSN 1210-0668.

Citácie:

1. [1.1] SADDI, A.A. - MOHAMED, A.M. - SHAIKH, A.M. Prophylactic mechanisms of *Cucumis melo* var. *flexuosus* and *Phoenix dactylifera* fruit extracts against diabetic cardiomyopathy in streptozotocin induced diabetic rats. In *PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES*. ISSN 1011-601X, 2018, vol. 31, no. 2, p. 699-707., Registrované v: WOS

2. [1.1] SHATHILI, A.M. - BROWN, H.M. - EVEREST-DASS, A.V. - TAN, T.C.Y. - PARKER, L.M. - THOMPSON, J.G. - PACKER, N.H. The effect of streptozotocin-induced hyperglycemia on N- and O-linked protein glycosylation in mouse ovary. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 11, p. 832-840., Registrované v: WOS

ADFB02 KOŠÍKOVÁ, Božena - LÁBAJ, Juraj. Antigenotoxic effect of lignin preparations from wastes of pulp and paper industry - in vitro and ex vivo activity. In *Acta Facultatis Xylogologiae*, 2011, roč. 53, s. 69-76. (2011 - SCOPUS). ISSN 1336-3824.

Citácie:

1. [1.2] CHENG, Yanqin - ZHANG, Huijie - XU, Zejun - WU, Lin Ping. Advanced applications of lignin-based materials. In *Functional Materials from Lignin: Methods and Advances*, 2018-01-01, pp. 169-205., Registrované v: SCOPUS

#### ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMA01 BELICKÝ, Štefan - KATRLÍK, Jaroslav - TKÁČ, Ján. Glycan and lectin biosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 37-47. (2015: 3.378 - IF, Q2 - JCR, 2.426 - SJR, Q1 - SJR). ISSN 0071-1365.

Citácie:

1. [1.1] DIAZ-FERNANDEZ, Ana - MIRANDA-CASTRO, Rebeca - DE-LOS-SANTOS-ALVAREZ, Noemi - JESUS LOBO-CASTANON, Maria. Post-translational modifications in tumor biomarkers: the next challenge for aptamers? In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2018, vol. 410, no. 8, pp. 2059-2065., Registrované v: WOS

2. [1.1] DORCAK, Vlastimil - TREFULKA, Mojmir - PALECEK, Emil. A Preliminary Study of Os(VI)-Binding Specificity to Glycopeptide and Peptide. In *PROCEEDINGS OF THE INTERNATIONAL CONFERENCE MODERN ELECTROCHEMICAL METHODS XXXVIII*, 2018, vol., no., pp. 35-38., Registrované v: WOS

3. [1.1] HENDRICKSON, O. D. - ZHERDEV, A. V. Analytical Application of Lectins. In *CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 1040-8347, 2018, vol. 48, no. 4, pp. 279-292., Registrované v: WOS

4. [1.1] HOSODA, Masae - TAKAHASHI, Yushi - SHIOTA, Masaaki - SHINMACHI, Daisuke -

INOMOTO, Renji - HIGASHIMOTO, Shinichi - AOKI-KINOSHITA, Kiyoko F. MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2018, vol. 464, no., pp. 44-56., Registrované v: WOS

5. [1.1] MISE, Koki - IMAMURA, Mariko - YAMAGUCHI, Satoshi - TESHIGAWARA, Sanae - TONE, Atsuhito - UCHIDA, Haruhito A. - EGUCHI, Jun - NAKATSUKA, Atsuko - OGAWA, Daisuke - YOSHIDA, Michihiro - YAMADA, Masao - SHIKATA, Kenichi - WADA, Jun.

Identification of Novel Urinary Biomarkers for Predicting Renal Prognosis in Patients With Type 2 Diabetes by Glycan Profiling in a Multicenter Prospective Cohort Study: U-CARE Study 1. In DIABETES CARE. ISSN 0149-5992, 2018, vol. 41, no. 8, pp. 1765-1775., Registrované v: WOS

6. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS

ADMA02

BENNATI-GRANIER, Chloe - GARAJOVÁ, Soňa - CHAMPION, Charlotte - GRISEL, Sacha - HAON, Mireille - ZHOU, Simeng - FANUEL, Mathieu - ROPARTZ, David - ROGNIAUX, Hélène - GIMBERT, Isabelle - RECORD, Eric - BERRIN, Jean-Guy. Substrate specificity and regioselectivity of fungal AA9 lytic polysaccharide monooxygenases secreted by *Podospora anserina*. In Biotechnology for biofuels, 2015, vol. 8, article no. 90. (2014: 6.044 - IF, Q1 - JCR, 2.490 - SJR, Q1 - SJR). ISSN 1754-6834.

Citácie:

1. [1.1] BISSARO, Bastien - VARNAI, Aniko - ROHR, Asmund K. - ELSINK, Vincent G. H. Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, 2018, vol. 82, no. 4, pp., Registrované v: WOS

2. [1.1] CHEN, Chen - CHEN, Jinyin - GENG, Zhigang - WANG, Meixia - LIU, Ning - LI, Duochuan. Regioselectivity of oxidation by a polysaccharide monooxygenase from *Chaetomium thermophilum*. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS

3. [1.1] FORSYTHE, Adrian - GIGLIO, Victoria - ASA, Jonathan - XU, Jianping. Phenotypic Divergence along Geographic Gradients Reveals Potential for Rapid Adaptation of the White-Nose Syndrome Pathogen, *Pseudogymnoascus destructans*, in North America. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2018, vol. 84, no. 16, pp., Registrované v: WOS

4. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - HILGERS, Roelant - KOETSIER, Martijn J. - HINZ, Sandra W. A. - VISSER, Jaap - GRUPPEN, Harry - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Quantification of the catalytic performance of C1-cellulose-specific lytic polysaccharide monooxygenases. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2018, vol. 102, no. 3, pp. 1281-1295., Registrované v: WOS

5. [1.1] FROMMHAGEN, Matthias - WESTPHAL, Adrie H. - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2018, vol. 9, no., pp., Registrované v: WOS

6. [1.1] GHOSH, Srayan - KANWAR, Poonam - JHA, Gopaljee. Identification of candidate pathogenicity determinants of *Rhizoctonia solani* AG1-IA, which causes sheath blight disease in rice. In CURRENT GENETICS. ISSN 0172-8083, 2018, vol. 64, no. 3, pp. 729-740., Registrované v: WOS

7. [1.1] HANGASKY, John A. - IAVARONE, Anthony T. - MARLETTA, Michael A. Reactivity of O-2 versus H2O2 with polysaccharide monooxygenases. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2018, vol. 115, no. 19, pp. 4915-4920., Registrované v: WOS

8. [1.1] HEDEGARD, Erik Donovan - RYDE, Ulf. Molecular mechanism of lytic polysaccharide monooxygenases. In CHEMICAL SCIENCE. ISSN 2041-6520, 2018, vol. 9, no. 15, pp. 3866-3880., Registrované v: WOS

9. [1.1] HEMSWORTH, Glyn R. - CIANO, Luisa - DAVIES, Gideon J. - WALTON, Paul H. Production and spectroscopic characterization of lytic polysaccharide monooxygenases. In ENZYMES OF ENERGY TECHNOLOGY. ISSN 0076-6879, 2018, vol. 613, no., pp. 63-90., Registrované v: WOS

10. [1.1] HESS, Jaqueline - SKREDE, Inger - DE MARES, Maryam Chaib - HAINAUT, Matthieu - HENRISSAT, Bernard - PRINGLE, Anne. Rapid Divergence of Genome Architectures Following the Origin of an Ectomycorrhizal Symbiosis in the Genus *Amanita*. In MOLECULAR BIOLOGY AND EVOLUTION. ISSN 0737-4038, 2018, vol. 35, no. 11, pp. 2786-2804., Registrované v: WOS

11. [1.1] JAGADEESWARAN, Guru - GAINEY, Lawrie - MORT, Andrew J. An AA9-LPMO

- containing a CBM1 domain in *Aspergillus nidulans* is active on cellulose and cleaves cello-oligosaccharides. In *AMB EXPRESS*. ISSN 2191-0855, 2018, vol. 8, no., pp., Registrované v: WOS
12. [1.1] KADOWAKI, Marco A. S. - VARNAI, Aniko - JAMESON, John-Kristian - LEITE, Ana E. T. - COSTA-FILHO, Antonio J. - KUMAGAI, Patricia S. - PRADE, Rolf A. - POLIKARPOV, Igor - ELJSINK, Vincent G. H. Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus *Myceliophthora thermophila*. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 8, pp., Registrované v: WOS
13. [1.1] LIU, Bing - KOGNOLE, Abhishek A. - WU, Miao - WESTERENG, Bjorge - CROWLEY, Michael F. - KIM, Seonah - DIMAROGONA, Maria - PAYNE, Christina M. - SANDGREN, Mats. Structural and molecular dynamics studies of a Cl-oxidizing lytic polysaccharide monooxygenase from *Heterobasidion irregulare* reveal amino acids important for substrate recognition. In *FEBS JOURNAL*. ISSN 1742-464X, 2018, vol. 285, no. 12, pp. 2225-2242., Registrované v: WOS
14. [1.1] LIU, Bing - KRISHNASWAMYREDDY, Sumitha - MURALEEDHARAN, Madhu Nair - OLSON, Ake - BROBERG, Anders - STAHLBERG, Jerry - SANDGREN, Mats. Side-by-side biochemical comparison of two lytic polysaccharide monooxygenases from the white-rot fungus *Heterobasidion irregulare* on their activity against crystalline cellulose and glucomannan. In *PLOS ONE*. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS
15. [1.1] MEIER, Katlyn K. - JONES, Stephen M. - KAPER, Thijs - HANSSON, Henrik - KOETSIER, Martijn J. - KARKEHABADI, Saeid - SOLOMON, Edward I. - SANDGREN, Mats - KELEMEN, Bradley. Oxygen Activation by Cu LPMOs in Recalcitrant Carbohydrate Polysaccharide Conversion to Monomer Sugars. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2593-2635., Registrované v: WOS
16. [1.1] PETROVIC, Dejan M. - BISSARO, Bastien - CHYLENSKI, Piotr - SKAUGEN, Morten - SORLIE, Morten - JENSEN, Marianne S. - AACHMANN, Finn L. - COURTADE, Gaston - VARNAI, Aniko - ELJSINK, Vincent G. H. Methylation of the N-terminal histidine protects a lytic polysaccharide monooxygenase from auto-oxidative inactivation. In *PROTEIN SCIENCE*. ISSN 0961-8368, 2018, vol. 27, no. 9, pp. 1636-1650., Registrované v: WOS
17. [1.1] QIN, Xing - SU, Xiaoyun - LUO, Huiying - MA, Rui - YAO, Bin - MA, Fuying. Deciphering lignocellulose deconstruction by the white rot fungus *Irpex lacteus* based on genomic and transcriptomic analyses. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
18. [1.1] SONG, Bo - LI, Bingyao - WANG, Xiaoyan - SHEN, Wei - PARK, Sungjin - COLLINGS, Cynthia - FENG, Anran - SMITH, Steve J. - WALTON, Jonathan D. - DING, Shi-You. Real-time imaging reveals that lytic polysaccharide monooxygenase promotes cellulase activity by increasing cellulose accessibility. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2018, vol. 11, no., pp., Registrované v: WOS
19. [1.1] VARNAI, Aniko - UMEZAWA, Kiwamu - YOSHIDA, Makoto - ELJSINK, Vincent G. H. The Pyrroloquinoline-Quinone-Dependent Pyranose Dehydrogenase from *Coprinopsis cinerea* Drives Lytic Polysaccharide Monooxygenase Action. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2018, vol. 84, no. 11, pp., Registrované v: WOS
20. [1.1] VU, Van V. - SON TUNG NGO. Copper active site in polysaccharide monooxygenases. In *COORDINATION CHEMISTRY REVIEWS*. ISSN 0010-8545, 2018, vol. 368, no., pp. 134-157., Registrované v: WOS
21. [1.2] CANNELLA, David. Light-induced electron transfer protocol for enzymatic oxidation of polysaccharides. In *Methods in Molecular Biology*. ISSN 10643745, 2018-01-01, 1796, pp. 247-253., Registrované v: SCOPUS

ADMA03

DAMBORSKÝ, Pavel - ŠVITEL, Juraj - KATRLÍK, Jaroslav. Optical biosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 91-100. (2015: 3.378 - IF, Q2 - JCR, 2.426 - SJR, Q1 - SJR). ISSN 0071-1365.

Citácie:

1. [1.1] CUNHA, Isabel - BILTES, Rita - SALES, M. G. F. - VASCONCELOS, Vitor. Aptamer-Based Biosensors to Detect Aquatic Phycotoxins and Cyanotoxins. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 7, pp., Registrované v: WOS
2. [1.1] DEHGHANI, Sadegh - NOSRATI, Rahim - YOUSEFI, Meysam - NEZAMI, Alireza - SOLTANI, Fatemeh - TAGHDISI, Seyed Mohammad - ABNOUS, Khalil - ALIBOLANDI, Mona - RAMEZANI, Mohammad. Aptamer-based biosensors and nanosensors for the detection of vascular endothelial growth factor (VEGF): A review. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 110, no., pp. 23-37., Registrované v: WOS
3. [1.1] HASSANPOUR, Soodabeh - BARADARAN, Behzad - DE LA GUARDIA, Miguel - BAGHBAZADEH, Amir - MOSAFER, Jafar - HEJAZI, Maryam - MOKHTARZADEH, Ahad - HASANZADEH, Mohammad. Diagnosis of hepatitis via nanomaterial-based electrochemical, optical or piezoelectrical biosensors: a review on recent advancements. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2018, vol. 185, no. 12, pp., Registrované v: WOS



4. [1.1] HASSANPOUR, Soodabeh - BARADARAN, Behzad - HEJAZI, Maryam - HASANZADEH, Mohammad - MOKHTARZADEH, Ahad - DE LA GUARDIA, Miguel. Recent trends in rapid detection of influenza infections by bio and nanobiosensor. In *TRAC-TRENDS IN ANALYTICAL CHEMISTRY*. ISSN 0165-9936, 2018, vol. 98, no., pp. 201-215., Registrované v: WOS
5. [1.1] HELENA BUSTOS, Rosa - ZAPATA, Carlos - ESTEBAN, Efrain - GARCIA, Julio-Cesar - JAUREGUI, Edwin - JAIMES, Diego. Label-Free Quantification of Anti-TNF-alpha in Patients Treated with Adalimumab Using an Optical Biosensor. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 3, pp., Registrované v: WOS
6. [1.1] KHANSILI, Nishtha - RATTU, Gurdeep - KRISHNA, Prayaga M. Label-free optical biosensors for food and biological sensor applications. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2018, vol. 265, no., pp. 35-49., Registrované v: WOS
7. [1.1] KHOSHBIN, Zahra - HOUSAINDOKHT, Mohammad Reza - VERDIAN, Asma - BOZORGMEHR, Mohammad Reza. Simultaneous detection and determination of mercury (II) and lead (II) ions through the achievement of novel functional nucleic acid-based biosensors. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 116, no., pp. 130-147., Registrované v: WOS
8. [1.1] NAZARET GOMEZ-ARRIBAS, Lidia - BENITO-PENA, Elena - HURTADO-SANCHEZ, Maria del Carmen - CRUZ MORENO-BONDI, Maria. Biosensing Based on Nanoparticles for Food Allergens Detection. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 4, pp., Registrované v: WOS
9. [1.1] NOSRATI, Rahim - DEHGHANI, Sadegh - KARIMI, Bahareh - YOUSEFI, Meysam - TAGHDISI, Seyed Mohammad - ABNOUS, Khalil - ALIBOLANDI, Mona - RAMEZANI, Mohammad. Siderophore-based biosensors and nanosensors; new approach on the development of diagnostic systems. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 117, no., pp. 1-14., Registrované v: WOS
10. [1.1] PULIKKATHODI, Anil Kumar - SARANGADHARAN, Indu - HSU, Chen-Pin - CHEN, Yi-Hong - HUNG, Lien-Yu - LEE, Geng-Yen - CHYI, Jen-Inn - LEE, Gwo-Bin - WANG, Yu-Lin. Enumeration of circulating tumor cells and investigation of cellular responses using aptamer-immobilized AlGaIn/GaN high electron mobility transistor sensor array. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 257, no., pp. 96-104., Registrované v: WOS
11. [1.1] SCHULZE, Sven - WEHRHOLD, Michel - HILLE, Carsten. Femtosecond-Pulsed Laser Written and Etched Fiber Bragg Gratings for Fiber-Optical Biosensing. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 9, pp., Registrované v: WOS
12. [1.1] SINAWANG, Prima Dewi - FAJS, Luka - ELOUARZAKI, Kamal - NUGRAHA, Jusak - MARKS, Robert S. TEMPO-based immuno-lateral flow quantitative detection of dengue NS1 protein. In *SENSORS AND ACTUATORS B-CHEMICAL*, 2018, vol. 259, no., pp. 354-363., Registrované v: WOS
13. [1.1] STEINKE, Nadja - RIO, Marisa - WUCHRER, Roland - SCHUSTER, Christiane - LJASENKO, Evgenij - KNOPP, Dietmar - GERLACH, Gerald - HARTLING, Thomas. Detection of diclofenac molecules by planar and nanostructured plasmonic sensor substrates. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2018, vol. 254, no., pp. 749-754., Registrované v: WOS
14. [1.1] SZYMCAK, Lindsey C. - KUO, Hsin-Yu - MRKSICH, Milan. Peptide Arrays: Development and Application. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2018, vol. 90, no. 1, pp. 266-282., Registrované v: WOS
15. [1.1] THESING, A. - AVILA, L. F. - ARMAS, L. E. G. - VALSECCHI, C. - MENEZES, J. W. Periodic gold nanohole arrays fabricated by interference lithography for optical-diffraction biosensing. In *2018 INTERNATIONAL CONFERENCE ON OPTICAL MEMS AND NANOPHOTONICS (OMN)*. ISSN 2160-5033, 2018, vol., no., pp. 163-164., Registrované v: WOS
16. [1.2] EVTUGYN, Gennady - SUBJAKOVA, Veronika - MELIKISHVILI, Sopio - HIANIK, Tibor. Affinity Biosensors for Detection of Mycotoxins in Food. In *Advances in Food and Nutrition Research*. ISSN 10434526, 2018-01-01, 85, pp. 263-310., Registrované v: SCOPUS
17. [1.2] HONIKEL, Mackenzie M. - LIN, Chi En - PROBST, David - LA BELLE, Jeffrey T. Facilitating earlier diagnosis of cardiovascular disease through point-of-care biosensors: A review. In *Critical Reviews in Biomedical Engineering*. ISSN 0278940X, 2018-01-01, 46, 1, pp. 53-82., Registrované v: SCOPUS
18. [1.2] SREE SANKER, S. S. - MADHUSOODANAN, K. N. Design of terahertz sensor for glucose monitoring based on 2-D photonic crystal pillar array. In *2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research, ICETIETR 2018*, 2018-11-08, pp., Registrované v: SCOPUS
19. [1.2] TENNANT, Paula - FERMIN, Gustavo. Viruses as Targets for Biotechnology: Diagnosis and Detection, Transgenesis, and RNAi- and CRISPR/Cas-Engineered Resistance. In *Viruses*:



ADMA04

*Molecular Biology, Host Interactions, and Applications to Biotechnology, 2018-03-14, pp. 317-338., Registrované v: SCOPUS*

HAMMOND, Jules L. - FORMISANO, Nello - ESTRELA, Pedro - CARRARA, Sandro - TKÁČ, Ján. Electrochemical biosensors and nanobiosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 69-80. (2015: 3.378 - IF, Q2 - JCR, 2.426 - SJR, Q1 - SJR). ISSN 0071-1365.

Citácie:

1. [1.1] ASAL, Melis - OZEN, Ozlem - SAHINLER, Mert - POLATOGLU, Ilker. Recent Developments in Enzyme, DNA and Immuno-Based Biosensors. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 6, pp., Registrované v: WOS
2. [1.1] CHO, Il-Hoon - LEE, Jongsung - KIM, Jiyeon - KANG, Min-soo - PAIK, Jean Kyung - KU, Seockmo - CHO, Hyun-Mo - IRUDAYARAJ, Joseph - KIM, Dong-Hyung. Current Technologies of Electrochemical Immunosensors: Perspective on Signal Amplification. In *SENSORS*. ISSN 1424-8220, 2018, vol. 18, no. 1, pp., Registrované v: WOS
3. [1.1] DEHGHANI, Sadegh - NOSRATI, Rahim - YOUSEFI, Meysam - NEZAMI, Alireza - SOLTANI, Fatemeh - TAGHDISI, Seyed Mohammad - ABNOUS, Khalil - ALIBOLANDI, Mona - RAMEZANI, Mohammad. Aptamer-based biosensors and nanosensors for the detection of vascular endothelial growth factor (VEGF): A review. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 110, no., pp. 23-37., Registrované v: WOS
4. [1.1] GOMES, Filipa O. - MAIA, Luisa B. - CORDAS, Cristina - DELERUE-MATOS, Cristina - MOURA, Isabel - MOURA, Jose J. G. - MORAIS, Simone. Nitric Oxide Detection Using Electrochemical Third-generation Biosensors Based on Heme Proteins and Porphyrins. In *ELECTROANALYSIS*. ISSN 1040-0397, 2018, vol. 30, no. 11, pp. 2485-2503., Registrované v: WOS
5. [1.1] GUPTA, S. - MURTHY, C. N. - PRABHA, C. Ratna. Recent advances in carbon nanotube based electrochemical biosensors. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2018, vol. 108, no., pp. 687-703., Registrované v: WOS
6. [1.1] HASSANI, Shokoufeh - AKMAL, Milad Rezaei - SALEK-MAGHSOUDI, Armin - RAHMANI, Soheila - GANJALI, Mohammad Reza - NOROUZI, Parviz - ABDOLLAHI, Mohammad. Novel label-free electrochemical aptasensor for determination of Diazinon using gold nanoparticles-modified screen-printed gold electrode. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2018, vol. 120, no., pp. 122-128., Registrované v: WOS
7. [1.1] HOYOS-NOGUES, Mireia - GIL, F. J. - MAS-MORUNO, Carlos. Antimicrobial Peptides: Powerful Biorecognition Elements to Detect Bacteria in Biosensing Technologies. In *MOLECULES*. ISSN 1420-3049, 2018, vol. 23, no. 7, pp., Registrované v: WOS
8. [1.1] KIZILTAN, Damla - VURAL, Tayfun - BAYRAM, Cem - OZTURK, Serhat - BOZDOGAN, Betul - YAMAN, Yesim Tugce - ABACI, Serdar - DENKBAS, Emir Baki. Development of Titania Nanotube-based Electrochemical Immunosensor and Determination of Prostate Specific Antigen. In *ANALYTICAL SCIENCES*. ISSN 0910-6340, 2018, vol. 34, no. 7, pp. 789-794., Registrované v: WOS
9. [1.1] KURBANOGU, Sevinc - UNAL, Mehmet Altay - OZKAN, Sibel A. Recent developments on electrochemical flow injection in pharmaceuticals and biologically important compounds. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2018, vol. 287, no., pp. 135-148., Registrované v: WOS
10. [1.1] MARTINEZ-ARIAS, Carlos G. - ESCOBAR, Marco A. - GUZMAN-SEPULVEDA, J. R. - TORRES-CISNEROS, Miguel - GUZMAN-CABRERA, Rafael. Biosensing using long-range surface plasmon structures. In *BIOSENSING AND NANOMEDICINE XI*. ISSN 0277-786X, 2018, vol. 10728, no., pp., Registrované v: WOS
11. [1.1] NEZAMI, Alireza - DEHGHANI, Sadegh - NOSRATI, Rahim - ESKANDARI, Negar - TAGHDISI, Seyed Mohammad - KARIMI, Gholamreza. Nanomaterial-based biosensors and immunosensors for quantitative determination of cardiac troponins. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2018, vol. 159, no., pp. 425-436., Registrované v: WOS
12. [1.1] NGOC-VIET NGUYEN - YANG, Chun-Hao - LIU, Chung-Jung - KUO, Chao-Hung - WU, Deng-Chyang - JEN, Chun-Ping. An Aptamer-Based Capacitive Sensing Platform for Specific Detection of Lung Carcinoma Cells in the Microfluidic Chip. In *BIOSENSORS-BASEL*. ISSN 2079-6374, 2018, vol. 8, no. 4, pp., Registrované v: WOS
13. [1.1] PALECEK, Emil - CERNOCKA, Hana. Recent advances in electrochemical analysis of biomacromolecules. Catalytic hydrogen evolution and modification of glycoproteins and glycans by Os(VI) complexes. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2018, vol. 12, no., pp. 33-41., Registrované v: WOS
14. [1.1] PRASAD, Mooni Siva - CHEN, Rongsheng - LI, Yang - REKHA, Dasari - LI, Dan - NI, Hongwei - SREEDHAR, Neelam Yugandhar. Polypyrrole Supported With Copper Nanoparticles Modified Alkali Anodized Steel Electrode for Probing of Glucose in Real Samples. In *IEEE*

*SENSORS JOURNAL. ISSN 1530-437X, 2018, vol. 18, no. 13, pp. 5203-5212., Registrované v: WOS*

15. [1.1] RAYMUNDO-PEREIRA, Paulo A. - BACCARIN, Marina - OLIVEIRA, Osvaldo N. - JANEGITZ, Bruno C. Thin Films and Composites Based on Graphene for Electrochemical Detection of Biologically-relevant Molecules. In *ELECTROANALYSIS. ISSN 1040-0397, 2018, vol. 30, no. 9, pp. 1888-1896., Registrované v: WOS*

16. [1.1] SHUNIN, Yuri - BELLUCCI, Stefano - GRUODIS, Alytis - LOBANOVA-SHUNINA, Tamara. Classification and Operating Principles of Nanodevices. In *NONREGULAR NANOSYSTEMS: THEORY AND APPLICATIONS, 2018, vol., no., pp. 147-206., Registrované v: WOS*

17. [1.1] SOARES, Ruben R. G. - RICELLI, Alessandra - FANELLI, Corrado - CAPUTO, Domenico - DE CESARE, Giampiero - CHU, Virginia - AIRES-BARROS, M. Raquel - CONDE, Joao P. Advances, challenges and opportunities for point-of-need screening of mycotoxins in foods and feeds. In *ANALYST. ISSN 0003-2654, 2018, vol. 143, no. 5, pp. 1015-1035., Registrované v: WOS*

18. [1.1] VIKRANT, Kumar - TSANG, Daniel C. W. - RAZA, Nadeem - GIRI, Balendu Shekher - KUKKAR, Deepak - KIM, Ki-Hyun. Potential Utility of Metal-Organic Framework-Based Platform for Sensing Pesticides. In *ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2018, vol. 10, no. 10, pp. 8797-8817., Registrované v: WOS*

19. [1.1] ZAKARIA, Norazreen - RAMLI, Muhammad Zaki - RAMASAMY, Kalavathy - MENG, Lim Siong - YEAN, Chan Yean - SINGH, Kirpal Kaur Banga - ZAIN, Zainiharyati Mohd - LOW, Kim-Fatt. An impedimetric micro-immunosensing assay to detect Alzheimer's disease biomarker: A beta 40. In *ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2018, vol. 555, no., pp. 12-21., Registrované v: WOS*

20. [1.2] SOUTO, Dênio E.P. - DE MORAES, Ana C.M. - BARRAGAN, José T.C. - DA SILVA, Everson T.S.G. - CAROSSI, Lory C. - KUBOTA, Lauro T. Recent materials and recognition elements applied in electrochemical biosensors. In *Advanced Materials and Systems for Electrochemical Technologies, 2018-01-01, pp. 127-172., Registrované v: SCOPUS*

ADMA05

HOUSER, Josef - KOZMON, Stanislav - MISHRA, Deepti - MISHRA, Sushil Kumar - ROMANO, Patrick R. - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Influence of Trp flipping on carbohydrate binding in lectins. An example on *Aleuria aurantia* lectin AAL. In *PLoS ONE, 2017, vol. 12, p. e0189375. (2016: 2.806 - IF, Q1 - JCR, 1.236 - SJR, Q1 - SJR). ISSN 1932-6203.*

Citácie:

1. [1.1] WANG, Mengjun - SHEN, Jiabin - HERRERA, Harmin - SINGAL, Amit - SWINDELL, Charles - LU RENQUAN - MEHTA, Anand. Biomarker analysis of fucosylated kininogen through depletion of lectin reactive heterophilic antibodies in hepatocellular carcinoma. In *JOURNAL OF IMMUNOLOGICAL METHODS. ISSN 0022-1759, 2018, vol. 462, no., pp. 59-64., Registrované v: WOS*

2. [1.1] WEST, Connor A. - WANG, Mengjun - HERRERA, Harmin - LIANG, Hongyan - BLACK, Alyson - ANGEL, Peggi M. - DRAKE, Richard R. - MEHTA, Anand S. N-Linked Glycan Branching and Fucosylation Are Increased Directly in Hcc Tissue As Determined through in Situ Glycan Imaging. In *JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, 2018, vol. 17, no. 10, pp. 3454-3462., Registrované v: WOS*

ADMA06

KOŠTÁLOVÁ, Zuzana - AGUEDO, Mario - HROMÁDKOVÁ, Zdenka. Microwave-assisted extraction of pectin from unutilized pumpkin biomass. In *Chemical Engineering and Processing: Process Intensification, 2016, vol. 102, p. 9-15. (2015: 2.154 - IF, Q2 - JCR, 0.837 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0255-2701.*

Citácie:

1. [1.1] DRANCA, Florina - OROIAN, Mircea. Extraction, purification and characterization of pectin from alternative sources with potential technological applications. In *FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2018, vol. 113, no., pp. 327-350., Registrované v: WOS*

2. [1.1] MARIC, Mirela - GRASSINO, Antonela Nincevic - ZHU, Zhenzhou - BARBA, Francisco J. - BRNCIC, Mladen - BRNCIC, Suzana Rimac. An overview of the traditional and innovative approaches for pectin extraction from plant food wastes and by-products: Ultrasound-, microwaves-, and enzyme-assisted extraction. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, 2018, vol. 76, no., pp. 28-37., Registrované v: WOS*

3. [1.1] TORKOVA, Anna A. - LISITSKAYA, Ksenia - FILIMONOV, Ivan S. - GLAZUNOVA, Olga A. - KACHALOVA, Galina S. - GOLUBEV, Vladimir N. - FEDOROVA, Tatyana. Physicochemical and functional properties of Cucurbita maxima pumpkin pectin and commercial citrus and apple pectins: A comparative evaluation. In *PLOS ONE. ISSN 1932-6203, 2018, vol. 13, no. 9, pp., Registrované v: WOS*

4. [1.2] DE HAAN, André B. - BIRAJDAR, Snehal D. CHAPTER 5: Liquid-Liquid Extraction in Processing of Bioproducts. In *RSC Green Chemistry. ISSN 17577039, 2018-01-01, 2018-January,*

55, pp. 109-131., Registrované v: SCOPUS

5. [3.1] Zanon, M (Zanon, Marisa); Masuelli, M (Masuelli, Martin). *Alcayota Gum Films: Experimental Reviews*. In: *JOURNAL OF MATERIALS SCIENCE AND CHEMICAL ENGINEERING*. ISSN 2327-6045, Vol. 6 (2018), p. 11-58

ADMA07

MAJTÁN, Juraj - KLAUDINY, Jaroslav - BOHOVÁ, Jana - KOHÚTOVÁ, Lenka - DZÚROVÁ, Mária - ŠEDIVÁ, Mária - BARTOŠOVÁ, Mária - MAJTÁN, Viktor. Methylglyoxal-induced modifications of significant honeybee proteinous components in manuka honey: Possible therapeutic implications. In *Fitoterapia*, 2012, vol. 83, p. 671-677. (2011: 1.848 - IF, 0.588 - SJR). ISSN 0367-326X.

Citácie:

1. [1.1] KHAN, Shahid Ullah - ANJUM, Syed Ishtiaq - RAHMAN, Khaista - ANSARI, Mohammad Javed - KHAN, Wasim Ullah - KAMAL, Sajid - KHATTAK, Baharullah - MUHAMMAD, Ali - KHAN, Hikmat Ullah. Honey: Single food stuff comprises many drugs. In *SAUDI JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1319-562X, 2018, vol. 25, no. 2, pp. 320-325., Registrované v: WOS

2. [1.2] MINDEN-BIRKENMAIER, Benjamin A. - BOWLIN, Gary L. Honey-based templates in wound healing and tissue engineering. In *Bioengineering*, 2018-06-01, 5, 2, pp., Registrované v: SCOPUS

3. [1.2] SASIKALA, L. - RATHINAMOORTHY, R. - DHURAI, Bhaarithi. Optimization of process conditions for chitosan-manuka honey film as wound contact layer for wound dressings. In *Wound Medicine*. ISSN 22139095, 2018-12-01, 23, pp. 11-21., Registrované v: SCOPUS

ADMA08

PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolaj E. - BYSTRICKÝ, Slavomír. Immune cell response to Candida cell wall mannan derived branched  $\alpha$ -oligomannoside conjugates in mice. In *Journal of Microbiology, Immunology and Infection*, 2015, vol. 48, p. 9-19.

Citácie:

1. [1.1] SCULLY, Ingrid L. - SWANSON, Kena A. - KANEVSKY, Isis - PRASAD, A. Krishna - ANDERSON, Annaliesa S. Preclinical Assessment of Glycoconjugate Vaccines. In *CARBOHYDRATE-BASED VACCINES: FROM CONCEPT TO CLINIC*. ISSN 0097-6156, 2018, vol. 1290, no., pp. 229-247., Registrované v: WOS

2. [1.1] TSO, Gloria Hoi Wan - REALES-CALDERON, Jose Antonio - PAVELKA, Norman. The Elusive Anti-Candida Vaccine: Lessons From the Past and Opportunities for the Future. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2018, vol. 9, no., pp., Registrované v: WOS

ADMA09

PEREZ, Serge - TVAROŠKA, Igor. Carbohydrate-protein interactions: molecular modeling insights. In *Advances in Carbohydrate Chemistry and Biochemistry*, 2014, vol. 71, p. 9-136. (2013: 3.917 - IF, 1.875 - SJR). ISSN 0065-2318.

Citácie:

1. [1.1] GESTEIRA, Tarsis F. - COULSON-THOMAS, Vivien J. Structural basis of oligosaccharide processing by glycosaminoglycan sulfotransferases. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2018, vol. 28, no. 11, pp. 885-897., Registrované v: WOS

2. [1.1] HUDSON, Kieran L. Carbohydrate-Based Interactions at the Molecular and the Cellular Level Introduction. In *CARBOHYDRATE-BASED INTERACTIONS AT THE MOLECULAR AND THE CELLULAR LEVEL*. ISSN 2190-5053, 2018, vol., no., pp. 1-34., Registrované v: WOS

3. [1.1] MISHRA, Sushil K. - KOCA, Jaroslav. Assessing the Performance of MM/PBSA, MM/GBSA, and QM-MM/GBSA Approaches on Protein/Carbohydrate Complexes: Effect of Implicit Solvent Models, QM Methods, and Entropic Contributions. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2018, vol. 122, no. 34, pp. 8113-8121., Registrované v: WOS

4. [1.1] SHANMUGAM, N. R. Siva - SELVIN, J. Fermin Angelo - VELURAJA, K. - GROMIHA, M. Michael. Identification and Analysis of Key Residues Involved in Folding and Binding of Protein-carbohydrate Complexes. In *PROTEIN AND PEPTIDE LETTERS*. ISSN 0929-8665, 2018, vol. 25, no. 4, pp. 379-389., Registrované v: WOS

5. [1.1] WOODS, Robert J. Predicting the Structures of Glycans, Glycoproteins, and Their Complexes. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 17, pp. 8005-8024., Registrované v: WOS

ADMA10

PETRIK, Siniša - MÁROVÁ, Ivana - HARONÍKOVÁ, Andrea - KOSTOVOVÁ, Iveta - BREIEROVÁ, Emília. Production of biomass, carotenoid and other lipid metabolites by several red yeast strains cultivated on waste glycerol from biofuel production - comparative screening study. In *Annals of Microbiology*, 2013, vol. 63, p. 1537-1551. (2012: 1.549 - IF, 0.436 - SJR). ISSN 1590-4261.

Citácie:

1. [1.1] BOGACZ-RADOMSKA, Ludmila - HARASYM, Joanna. beta-Carotene-properties and production methods. In *FOOD QUALITY AND SAFETY*. ISSN 2399-1399, 2018, vol. 2, no. 2, pp. 69-74., Registrované v: WOS



2. [1.1] DE SOUSA, Kally Alves - DA FAHEINA JUNIOR, Genilton Silva - SILVA DE AZEVEDO, Diana Cristina - SAAVEDRA PINTO, Gustavo Adolfo. Optimization of Cellulase Production by *Trichoderma* Strains Using Crude Glycerol as a Primary Carbon Source with a 2(4) Full Factorial Design. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2018, vol. 9, no. 3, pp. 357-367., Registrované v: WOS
3. [1.1] SINGH, Gunjan - SINHA, Sweta - BANDYOPADHYAY, K. K. - LAWRENCE, Mark - PAUL, Debarati. Triaxial growth of an oleaginous red yeast *Rhodospiridium toruloides* on waste "extract"; for enhanced and concomitant lipid and carotene production. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2018, vol. 17, no., pp., Registrované v: WOS
- ADMA11 TALAFOVÁ, Klaudia - HRABÁROVÁ, Eva - CHORVÁT, Dušan - NAHÁLKA, Jozef. Bacterial inclusion bodies as potential synthetic devices for pathogen recognition and a therapeutic substance release. In *Microbial Cell Factories*, 2013, vol. 12, article No. 16, 9 pages. (2012: 3.306 - IF, 1.392 - SJR). ISSN 1475-2859.
- Citácie:
1. [1.1] FARAJI, Habibollah - NEDAEINIA, Reza - NOURMOHAMMADI, Esmail - MALAEKEH-NIKOUEI, Bizan - SADEGHNIA, Hamid Reza - ZIAPOUR, Seyyed Payman - SARKARIZI, Hoda Khoshdel - OSKUEE, Reza Kazemi. A Review on Application of Novel Solid Nanostructures in Drug Delivery. In *JOURNAL OF NANO RESEARCH*. ISSN 1662-5250, 2018, vol. 53, no., pp. 22-36., Registrované v: WOS
2. [1.2] FERRER-MIRALLES, N. - SACCARDO, P. - GARCIA-FRUITÓS, E. Protein purification from protein aggregates. In *Handbook on Protein Purification: Industry Challenges and Technological Developments*, 2018-11-15, pp. 79-104., Registrované v: SCOPUS
- ADMA12 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTĚS, Ladislav. Study of pro- and anti-oxidative properties of D-penicillamine in a system comprising high-molar-mass hyaluronan, ascorbate, and cupric ions. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 697-701. (2007: 1.443 - IF). ISSN 0172-780X.
- Citácie:
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**
- ADMB01 BIELY, Peter - WESTERENG, Bjorge - PUCHART, Vladimír - DE MAAYER, Pieter - COWAN, Don A. Recent progress in understanding the mode of action of acetylxylen esterases. In *Journal of Applied Glycoscience*, 2014, vol. 61, p. 35-44. ISSN 1880-7291.
- Citácie:
1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2013-2014. In *MASS SPECTROMETRY REVIEWS*. ISSN 0277-7037, 2018, vol. 37, no. 4, pp. 353-491., Registrované v: WOS
- ADMB02 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana - Blahutová - GEMEINER, Peter - TKÁČ, Ján. Electrochemical features of bilirubin oxidase immobilized on different carbon nanostructures. In *Key Engineering Materials*, 2013, vol. 543, p. 13-17. (2012: 0.172 - SJR). (2013 - SCOPUS). ISSN 1013-9826.
- Citácie:
1. [1.1] MANO, Nicolas - DE POULPIQUET, Anne. O-2 Reduction in Enzymatic Biofuel Cells. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2018, vol. 118, no. 5, pp. 2392-2468., Registrované v: WOS
- ADMB03 KLEINOVÁ, Angela - HURAN, Jozef - SASINKOVÁ, Vlasta - PERNÝ, M. - ŠÁLY, V. - PACKA, J. FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application. In *Proceedings of the SPIE*, 2015, vol. 9563, 95630U. (2014: 0.237 - SJR). (2015 - SCOPUS, WOS). ISSN 0277-786X.
- Citácie:
1. [1.1] TRINH, Q.H. - HOSSAIN, M.M. - KIM, S.H. - MOK, Y.S. Tailoring the wettability of glass using a double-dielectric barrier discharge reactor. In *HELIYON*. JAN 2018, vol. 4, no. 1., Registrované v: WOS
- ADMB04 KOLLÁROVÁ, Karin - ZELKO, Ivan - HENSELOVÁ, Mária - CAPEK, Peter - LIŠKOVÁ, Desana. Growth and anatomical parameters of adventitious roots formed on mung bean hypocotyls are correlated with galactoglucomannan oligosaccharides structure. In *The Scientific World Journal*,



2012, vol. 2012, article ID 797815, p. 7. (2011: 0.508 - SJR). ISSN 1537-744X.

Citácie:

1. [1.1] Rizo-Alvarez, Maritza; Morales-Querol, Dariel; Sánchez-Santana, Tania; López-Vigo, Onel; Olivera-Castro, Yuseika; Benítez-Alvarez, Miguel A; Ruz-Suárez, Fernando. Influence of EcoMic® and Pectimorf® on the establishment of *Leucaena leucocephala* (Lam.) de Wit. cv. Cunningham. In: *Pastos y Forrajes* (2018), p. 183-188, Registrované v: WOS

ADMB05

WONG, Dominic W.S. - CHAN, Victor J. - MCCORMACK, Amanda A. - HIRSCH, Ján - BIELY, Peter. Functional cloning and expression of the schizophyllum commune glucuronoyl esterase gene and characterization of the recombinant enzyme. In *Biotechnology Research International*, 2012, vol. 2012, article ID 951267, 7 pages.

Citácie:

1. [1.1] BAATH, Jenny Arnling - MAZURKEWICH, Scott - KNUDSEN, Rasmus Meland - POULSEN, Jens-Christian Navarro - OLSSON, Lisbeth - LO LEGGIO, Leila - LARSBRINK, Johan. Biochemical and structural features of diverse bacterial glucuronoyl esterases facilitating recalcitrant biomass conversion. In *BIOTECHNOLOGY FOR BIOFUELS*, 2018, vol. 11, no., pp., Registrované v: WOS

2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2018, vol. 40, no., pp. 282-287., Registrované v: WOS

3. [1.1] HUYNH, Hung Hiep - ISHII, Nozomi - MATSUO, Ichiro - ARIOKA, Manabu. A novel glucuronoyl esterase from *Aspergillus fumigatus*-the role of conserved Lys residue in the preference for 4-O-methyl glucuronoyl esters. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2018, vol. 102, no. 5, pp. 2191-2201., Registrované v: WOS

#### ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNA01

SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - TIBENSKÁ, Elena - DEMIAN, Juraj - MAJER, Ivan - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - DURMANOVÁ, Vladimíra - PAULOVICHOVÁ, Ema. sTREM-1 in bronchoalveolar lavage fluid in patients with pulmonary sarcoidosis effect of smoking and inflammation. In *Bratislava Medical Journal*, 2013, vol. 114, p. 702-707. (2012: 0.472 - IF, 0.189 - SJR). ISSN 0006-9248.

Citácie:

1. [1.1] MORIYAMA, Munehito - HIRANO, Takashi - KAWANO, Toshiaki - KADOWAKI, Yoshinori - KODAMA, Satoru - SUZUKI, Masashi. Toll-like receptor 4 plays an important role to enhance bacterial clearance from the nose in synergy with triggering receptor expressed on myeloid cells (TREM)-1 expression on polymorphonuclear neutrophils. In *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*. ISSN 0165-5876, 2018, vol. 112, no., pp. 27-33., Registrované v: WOS

#### ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNB01

BEZEK, Štefan - BRNOLIAKOVÁ, Zuzana - SOTNÍKOVÁ, Ružena - KNEZL, Vladimír - PAULOVICHOVÁ, Ema - NAVAROVÁ, Jana - BAUER, Viktor. Monotherapy of experimental metabolic syndrome: I. Efficacy and safety. In *Interdisciplinary toxicology*, 2017, vol. 10, no. 3, p. 81-85. (2016: 0.409 - SJR, Q3 - SJR). (2017 - SCOPUS). ISSN 1337-6853.

Citácie:

1. [1.1] FERKO, M. - FARKASOVA, V. - JASOVA, M. - KANCIROVA, I. - RAVINGEROVA, T. - ADAMEOVA, A.D. - ANDELOVA, N. - WACZULIKOVA, I. Hypercholesterolemia antagonized heart adaptation and functional remodeling of the mitochondria observed in acute diabetes mellitus subjected to ischemia/reperfusion injury. In *JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*. ISSN 0867-5910, 2018, vol. 69, no. 5, p. 685-697., Registrované v: WOS

ADNB02

MAROVÁ, Ivana - HARONIKOVÁ, Andrea - PETRIK, Sinisa - DVORÁKOVÁ, Terezie - BREIEROVÁ, Emília. Production of enriched biomass by red yeasts of *Sporobolomyces* sp. grown on waste substrates. In *Journal of Microbiology, Biotechnology and Food Sciences*, 2012, vol. 1, p. 534-551. ISSN 1338-5178.

Citácie:

1. [1.1] BOGACZ-RADOMSKA, Ludmila - HARASYM, Joanna. beta-Carotene-properties and production methods. In *FOOD QUALITY AND SAFETY*. ISSN 2399-1399, 2018, vol. 2, no. 2, pp.

- ADNB03 69-74., Registrované v: WOS  
MUDRONČEKOVÁ, Silvia - MAZÁŇ, Marián - NEMČOVIČ, Marek - ŠALAMON, Ivan. Entomopathogenic fungus species beauveria bassiana (BALS.) and metarhizium anisopliae (METSCH.) used as mycoinsecticide effective in biological control of IPS typographus (L.). In Journal of Microbiology, Biotechnology and Food Sciences, 2013, vol. 2, p. 2469-2472. ISSN 1338-5178.  
Citácie:  
1. [1.1] BARTA, Marek - KAUTMANOVA, Ivona - CICKOVA, Helena - FERENCIK, Jan - FLORIAN, Stefan - NOVOTNY, Julius - KOZANEK, Milan. The potential of Beauveria bassiana inoculum formulated into a polymeric matrix for a microbial control of spruce bark beetle. In BIOCONTROL SCIENCE AND TECHNOLOGY. ISSN 0958-3157, 2018, vol. 28, no. 7, pp. 718-735., Registrované v: WOS
- ADNB04 RAČKOVÁ, Lucia - CUPÁKOVÁ, Mária - ŤAŽKÝ, Anton - MIČOVÁ, Júlia - KOLEK, Emil - KOŠTÁLOVÁ, Daniela. Redox properties of ginger extracts: Perspectives of use of Zingiber officinale Rosc. as antidiabetic agent. In Interdisciplinary toxicology, 2013, vol. 6, no. 1, p.26-33. (2012: 0.258 - SJR). ISSN 1337-6853.(ITMS 26240220040 : Hodnotenie prírodných látok a ich výber pre prevenciu a liečbu civilizačných ochorení).  
Citácie:  
1. [1.1] HONG, H. - LEE, J.H. - KIM, S.K. Phytochemicals and antioxidant capacity of some tropical edible plants. In ASIAN-AUSTRALASIAN JOURNAL OF ANIMAL SCIENCES. ISSN 1011-2367, OCT 2018, vol. 31, no. 10, p. 1677-1684., Registrované v: WOS  
2. [1.1] HUSSAIN, N. - HASHIMI, A.S. - WASIM, M. - AKHTAR, T. - SAEED, S. - AHMAD, T. Synergistic potential of Zingiber officinale and Curcuma longa to ameliorate diabetic-dyslipidemia. In PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1011-601X, MAR 2018, vol. 31, no. 2, p. 491-498., Registrované v: WOS
- ADNB05 ŠOLTÉS, Ladislav - KOGAN, Grigorij. Catabolism of hyaluronan: involvement of transition metals. In Interdisciplinary toxicology, 2009, vol. 2, no. 4, p. 229-238. ISSN 1337-6853.  
Citácie:  
1. [1.1] MEROLA, F. - SCRIMA, M. - MELITO, C. - IORIO, A. - PISANO, C. - GIORI, A.M. - FERRAVANTE, A. A novel animal model for residence time evaluation of injectable hyaluronic acid-based fillers using high-frequency ultrasound-based approach. In CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY. ISSN 1178-7015, 2018, vol. 11, p. 339-346., Registrované v: WOS

**\*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

- AEC01 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: anti-oxidative properties of the Piešťany-spa curative waters from healing peloid and maturation pool : chapter 3. In Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives. Editors Regina M. Islamova, Sergei V. Kolesov and Gennady E. Zaikov. - New York : Nova Science Publishers, 2012, p. 29-36. ISBN 978-1-61470-712-7.  
Citácie:  
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- AEC02 ŠOLTÉS, Ladislav - KOGAN, Grigorij. Impact of transition metals in the free-radical degradation of hyaluronan biopolymer. In Kinetics and thermodynamics for chemistry and biochemistry : (a festschrift in honor of the 75th birthday of professor Gennady E. Zaikov). Vol. 2. Editor Eli M. Pearce, Gennady Efremovich Zaikov, Gerald Kirshenbaum. - Hauppauge : Nova Science Publishers, 2009, chapter 19. P. 181 - 199. ISBN 978-1-60692-352-8.  
Citácie:  
1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4
- AEC03 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, Ladislav. Hyaluronan degradation by ascorbate: protective effects of manganese(II) chloride. In Kinetics and thermodynamics for chemistry and biochemistry : (a festschrift in honor of the 75th birthday of professor Gennady E. Zaikov). Vol. 2. Editor Eli M. Pearce, Gennady Efremovich Zaikov, Gerald

Kirshenbaum. - Hauppauge : Nova Science Publishers, 2009, chapter 20. P. 201- 215. ISBN 978-1-60692-352-8.

Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

#### AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - PRIESOLOVÁ, Elena - NAGY, Milan - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Early stage of the acute phase of joint inflammation. In vitro testing of bucillamine and its oxidized metabolite SA981 in function of antioxidants. In *Interdisciplinary toxicology*, 2011, vol. 4, no. 2, p. A22. ISSN 1337-6853.

Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4.

AFG02 KOŠÍKOVÁ, Božena - DEMIANOVÁ, V. - MIKULÁŠOVÁ, M. - LORA, J.H. Biodegradable lignin/polyolefin composite films. In *Proceedings: 1. Biomass Conference of the Americas: Energy, Environment, Agriculture, and Industry*, 30 August-2 September 1993, Burlington, USA. - Golden : National Renewable Energy Laboratory, 1993, 1993, vol. 2, PB: 711 p.

Citácie:

1. [1.1] KABIR, Afsana S. - YUAN, Zhongshun - KUBOKI, Takashi - XU, Chunbao (Charles). Depolymerization of industrial lignins to improve the thermo-oxidative stability of polyolefins. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2018, vol. 120, no., pp. 238-249., Registrované v: WOS

AFG03 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Radical degradation of high-molar-mass hyaluronan induced by Weissberger oxidative system. Testing of thiol compounds in function of antioxidants. In *Interdisciplinary toxicology*, 2011, vol. 4, no. 2, p. A65. ISSN 1337-6853.

Citácie:

1. [3.1] SABET, MAYSA M. - TAMER, M. TAMER - OMER, AHMED M. Hyaluronan: Biological function and medical applications. (Book Chapter 10). In A.K. Haghi et al. eds. *APPLIED CHEMISTRY AND CHEMICAL ENGINEERING. Volume 2. Principles, Methodology, and Evaluation Methods*. Oakwile, Waretown: Apple Academic Press, 2018, p. 139-156. ISBN 978-1-77188-558-4

#### GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 HURAN, Jozef - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - BALALYKIN, Nikolay I. - SEKÁČOVÁ, Mária - ARBET, Juraj. Amorphous silicon carbide thin films deposited by plasma enhanced chemical vapor deposition at different temperature for hard environment applications. In *21st International Symposium on Plasma Chemistry : Cairns (Australia) 2013* [elektronický zdroj], <http://www.ispc-conference.org/ispcproc/ispc21/ID180.pdf>.

Citácie:

1. [1.1] MARVI, Z. - XU, S. - FOROUTAN, G. - OSTRIKOV, K. - LEVCHENKO, I. Plasma-deposited hydrogenated amorphous silicon films: multiscale modelling reveals key processes. In *RSC ADVANCES*. 2017, vol. 7, no. 31, p. 19189-19196., Registrované v: WOS  
2. [1.1] VAN LAAR, J.H. - BISSETT, H. - BARRY, J.C. - VAN DER WALT, I.J. - CROUSE, P.L. Deposition of SiC/Si coatings in a microwave plasma-assisted spouted bed reactor. In *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*. APR 2018, vol. 38, no. 4, p. 1197-1209., Registrované v: WOS

#### Nezaradené publikácie

01 BIELY, Peter - KREMnický, Ľubomir - ALFÖLDY, Juraj - TENKANEN, Maija. Stereochemistry of the hydrolysis of glycosidic linkage by endo- $\beta$ -1,4-xylanases of *Trichoderma reesei*. In *FEBS Letters*, 1994, vol. 356, p. 137-140. ISSN 1873-3468.

02

Citácie:

1. [1.1] SUN, Junyong - LU, Jian - XIE, Guangfa. Secretome analysis of *Trichoderma reesei* CICC41495 for degradation of arabinoxylan in malted barley. In *JOURNAL OF THE INSTITUTE OF BREWING*. ISSN 0046-9750, 2018, vol. 124, no. 4, pp. 352-358., Registrované v: WOS  
STANKOVIČ, Ľudovít - LINEK, K. - FEDORONKO, M. Ketoses and their derivatives. Part III. The synthesis of methylglycosides of 2-pentuloses by the Fischer method, but with catalysis by acetic acid. In *Carbohydrate Research*, 1974, vol. 35, p. 242-246. ISSN 0008-6215.

Citácie:

1. [1.2] PEREPELOV, A. V. - SENCHENKOVA, S. N. - KALINCHUK, N. A. - SHASHKOV, A. S. - KNIREL, Yu A. Structure of O-polysaccharide of *Escherichia coli* O95: a disaccharide repeating unit containing d-fucose and d-threo-pent-2-ulose (xylulose). In *Russian Chemical Bulletin*. ISSN 10665285, 2018-10-01, 67, 10, pp. 1931-1933., Registrované v: SCOPUS