Ústav molekulárnej biológie SAV, v. v. i.

Správa o činnosti organizácie SAV za rok 2021

Bratislava
január 2022

Obsah

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav molekulárnej biológie SAV, v. v. i.
Riaditeľ: Ing. Eva Kutejová, DrSc.
Zástupca riaditeľa: Ing. Daniela Krajčíková, CSc.
Vedecký tajomník: Mgr. Ľuboš Kľučár, PhD.
Predseda vedeckej rady: RNDr. Imrich Barák, DrSc.
Člen Snemu SAV: Mgr. Ľuboš Kľučár, PhD.
Adresa: Dúbravská cesta 21, 845 51 Bratislava 45

http://www.imb.savba.sk/

Tel.: +421 2 5930 7411
E-mail: umbidir@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:
Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:
Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:
nie sú

Typ organizácie: Príspevková od roku 2017

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				
Celkový počet zamestnancov	66	21	45	2	6	62	61.89	48.99	4
Vedeckí pracovníci	44	17	27	1	6	40	40.35	38.35	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	8	1	7	1	0	8	7.22	7.22	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	3	0	3	0	0	3	2.9	0	0
Odborní pracovníci ÚS	4	0	4	0	0	4	4	3	3
Ostatní pracovníci	7	3	4	0	0	7	7.42	0.42	1

[1] odmeňovaní podľa 553/2003 Z.z., príloha č. 5
[2] odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2021 (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 31.12.2021 (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 31.12.2021)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	6	12	1	0	6	7	4
Ženy	1	26	0	0	1	15	11

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**
Muži	1	0.2	2	2.0	1	0.1	3	3.0	2	2.0	2	2.0	3	2.5	3	3.0	0	0.0
Ženy	2	2.0	4	4.0	2	2.0	6	6.0	1	1.0	1	1.0	7	7.0	6	6.0	3	3.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2021

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	50.1	49.5	48.5
Ženy	50.2	47.1	50.6
Spolu	50.2	48.0	49.9

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

V roku 2021 sa nezmenila organizačná štruktúra ÚMB, ani nedošlo k signifikantným zmenám vo vedeckom zameraní ústavu. V tomto roku sme prijali štyroch doktorandov, z toho jedného doktoranda nám bolo umožnené prijať mimo počtu povolených novoprijatých doktorandov (3). V rámci riešenia projektu Interreg V-A SK – AT 2014 – 2020 „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“ boli prijaté dve

mladé vedecké pracovníčky Mgr. Nina Kunová, PhD. a Mgr. Barbora Stojkovičová a v rámci riešenia projektu štrukturálnych fondov „Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom“ bola prijatá Mgr. Zuzana Kisová, PhD. po obhájení jej dizertačnej práce na ÚMB SAV.

V rámci medzinárodného projektu Interreg SK-AT „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“ sme pokračovali vo formovaní automatizovaného laboratória štruktúrnej biológie, prvého svojho druhu na Slovensku. Vytvára sa takto zázemie pre kvalitné vzdelávanie, poskytovanie poradenstva a špičkový výskum v oblasti biomedicíny a biotechnológii http://www.imb.savba.sk/strubiomol/index.php?id=home&lang=sk.

Skupina Apidológie a apiterapie pod vedením Ing. Juraja Majtána, DrSc. pokračovala v projekte Medové laboratórium, ktorého snahou je poskytovať širokej verejnosti možnosť analýzy antibakteriálnej aktivity medov a v tomto roku zaznamenala zvyšujúci sa záujem, hlavne drobných včelárov.

Od 1.1. 2021 je ÚMB SAV školiacim pracoviskom študijného programu Genetika v rámci študijného odboru Biológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske a lesnícke vedy), ktorého garantom je RNDr. Imrich Barák, DrSc.

Významný podiel na aktivitách vedeckej rady a vedenia ústavu predstavovala príprava všetkých relevantných dokumentov súvisiacich s prechodom na v.v.i..

Zložitá pandemická situácia, ktorá vznikla v dôsledku výskytu koronavírusu nás tiež prinútila zaviesť na pracovisku preventívne opatrenia, ktorých cieľom bolo zabrániť šíreniu ochorenia COVID-19, odporúčali sme všetkým zamestnancom, ktorých prítomnosť nebola na ústave nevyhnutá, aby pracovali z domu a zabezpečili sme striedanie zamestnancov, ktorí potrebovali pracovať v laboratóriách.

V roku 2021 sa podarilo uskutočniť rekonštrukciu sociálnej miestnosti a kuchynky v budove A ÚMB. Tieto práce boli financované z vlastných zdrojov.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2021

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 VEGA	12	2	100164	100164	9437	9437	1380	3900
2. Projekty APVV	9	10	20827	9529	235615	195945	10230	67553
3. Projekty EŠIF/OP ŠF	0	1	-	-	-	-	-	74505
4. Projekty SASPRO, MoRePro	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2021

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2021	-	1	1
2. Projekty výziev EŠIF podané r. 2021	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2021

Tabuľka 2c Medzinárodné projekty riešené v roku 2021

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi-záciu	Spolu	Pre organi-záciu		
1. Projekty Horizont 2020 a Horizont Európa	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	0	-	-	51863	51863	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	1	1	-	-	-	24996	-	17000
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2021

Tabuľka 2d Počet projektov Horizont Európa v roku 2021

	A	B
Počet podaných projektov Horizont Európa		2

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 Európskych štrukturálnych a investičných fondov v ďalších výzvach

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2021

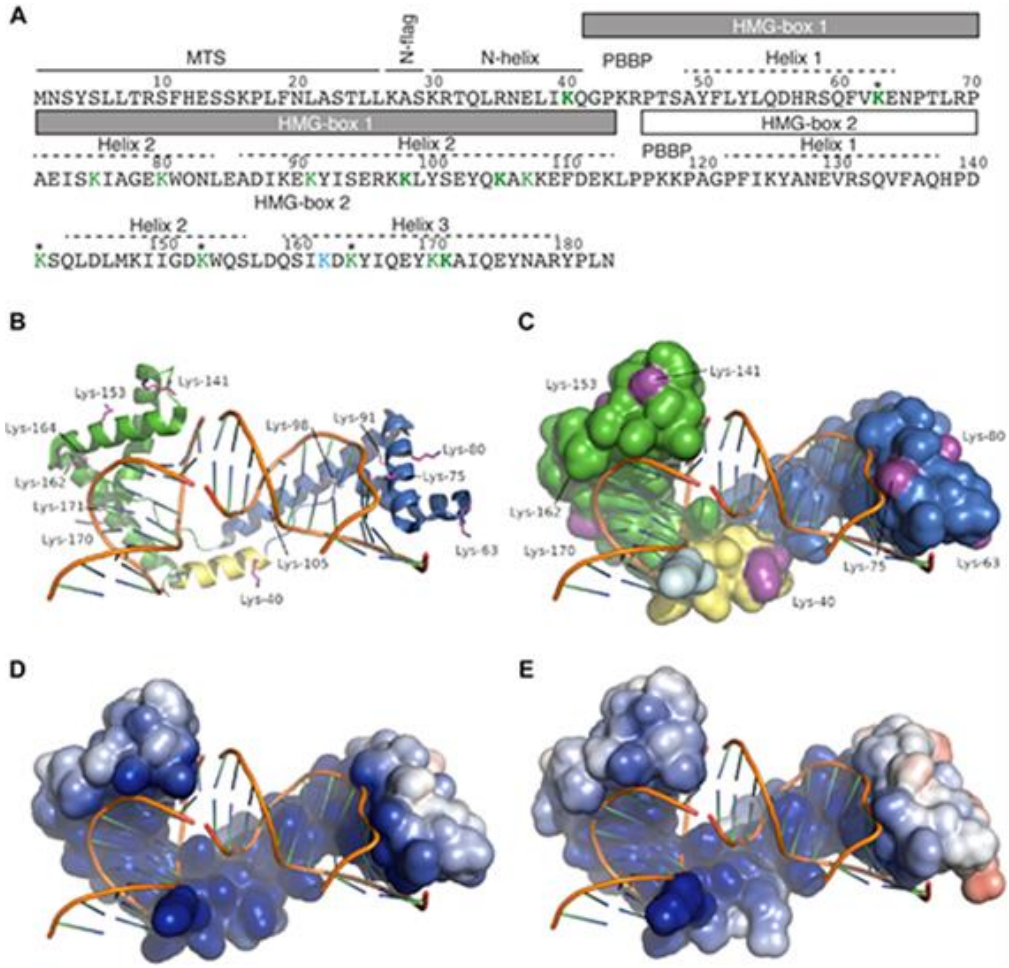
Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

A. Vplyv post-translačných modifikácií proteínov na funkciu mitochondrií

Autori (za ÚMB SAV): Keresztesová, B., Kunová, N., Bauer, J., Ondrovičová, G., Pevala, V., Kutejová, E.

Post-translačné modifikácie proteínov predstavujú účinný spôsob, ako sa bunky prispôsobujú zmenám prostredia, a významne modulujú vlastnosti proteínov. Sukcinylácia lyzínu má veľký vplyv na funkciu proteínu, pretože dramaticky mení jeho náboj. V eukaryotoch ovplyvňuje najmä mitochondriálne proteíny, keďže donor sukcinátu, sukcinyl-CoA, sa primárne tvorí v Krebsovom cykle. V spolupráci s Katedrou genetiky PriF UK a Chemickým ústavom SAV sme urobili komplexnú proteomickú analýzu kvasinkových mitochondrií a detegovali 314 sukcinylovaných mitochondriálnych proteínov obsahujúcich 1763 nových sukcinylačných miest. Mitochondriálny nukleoid, komplex mtDNA a proteínov, je štruktúra, ktorej proteíny ovplyvňuje sukcinylácia. Zistili sme, že Abf2, hlavná zložka nukleoidu *S. cerevisiae* zodpovedná za zbaľovanie mtDNA, sa môže sukcinylovať na 13 lyzínoch. *In vitro* štúdie ukázali, že sukcinylácia Abf2 vedie k inhibícii jeho DNA-väzobnej aktivity a znižuje jeho citlivosť voči štiepeniu proteázou *Sc*Lon.



Projekty

1. VEGA 02/0075/18 – Faktory ovplyvňujúce dynamiku mitochondriálneho nukleoidu
2. APVV-15-0375 – Posttranslačné modifikácie v mitochondriách a ich úloha v patologických procesoch
3. APVV-19-0298 – Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi.

Výstupy

1. FRANKOVSKÝ, Ján* - KERESZTESOVÁ, Barbora* - BELLOVÁ, Jana - KUNOVÁ, Nina - ČANIGOVÁ, Nikola - HANAKOVÁ, Katarína - BAUER, Jacob - ONDROVIČOVÁ, Gabriela - LUKÁČOVÁ, Veronika - SIVÁKOVÁ, Barbara - ZDRÁHAL, Zbyněk - PEVALA, Vladimír - PROCHÁZKOVÁ, Katarína - NOSEK, Jozef. - BARÁTH, Peter** - KUTEJOVÁ, Eva** - TOMÁŠKA, Ľubomír**. The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids. In Journal of Biological Chemistry, 2021, vol. 297, no. 4, no. 101155 [16] p. (2020: 5.157 - IF, Q2 - JCR, 2.361 - SJR, Q1 - SJR, karentované - CCC).
2. KOTRASOVÁ, Veronika* - KERESZTESOVÁ, Barbora* - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - HAVALOVÁ, Henrieta - PEVALA, Vladimír - KUTEJOVÁ, Eva** - KUNOVÁ, Nina**. Mitochondrial kinases and the role of mitochondrial protein phosphorylation in health and disease. In Life-Basel, 2021, vol. 11, p. 82. (2020: 3.817 - IF, Q2 - JCR, 0.973 - SJR, Q1 - SJR, karentované - CCC).
3. HAVALOVÁ, Henrieta* - ONDROVIČOVÁ, Gabriela* - KERESZTESOVÁ, Barbora - BAUER, Jacob - PEVALA, Vladimír - KUTEJOVÁ, Eva** - KUNOVÁ, Nina**. Mitochondrial HSP70 chaperone system - the influence of post-translational modifications and involvement in human diseases. In International Journal of Molecular Sciences, 2021, vol.

22, no. 8077. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC).

B. Krížové rozpoznávania promótorov deviatimi homológmi stresového sigma faktora SigB u *Streptomyces coelicolor* A3(2)

Autori: B. Ševčíková, B. Řežuchová, V. Mazuráková, D. Homerová, R. Nováková, Ľ. Fecková, J. Kormanec.

Na rozdiel od *Bacillus subtilis*, *Streptomyces coelicolor* obsahuje deväť homológov sigma faktora SigB s hlavnou úlohou pri diferenciácii a reakcii na osmotický stres. Pomocou heterologického dvojplazmidového systému sme identifikovali 24 promótorov rozpoznávaných deviatimi homológmi (SigBFGHIKLMN), pričom viaceré boli rozpoznávané viacerými sigma faktormi. Promótory sme overili *in vivo* v *S. coelicolor* A3(2) v podmienkach osmotického stresu a diferenciácie. Všetky promótory vykazovali vysokú podobnosť v -35 a -10 oblastiach. Imunoblotová analýza odhalila prítomnosť SigB v podmienkach osmotického stresu a SigH počas morfologickej diferenciácie. Spolu s fenotypovou analýzou pripravených mutantov *sigB* a *sigH* v *S. coelicolor* A3(2) tieto výsledky naznačujú dominantnú úlohu SigB v reakcii na osmotický stres a dvojitú úlohu SigH v reakcii na osmotický stres a morfologickej diferenciácii a komplexnú reguláciu reakcie na osmotický stres vo vzťahu k morfologickej diferenciácii v *S. coelicolor*.

Projekty:

1. VEGA 2/0026/20 – „Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu *Streptomyces*".

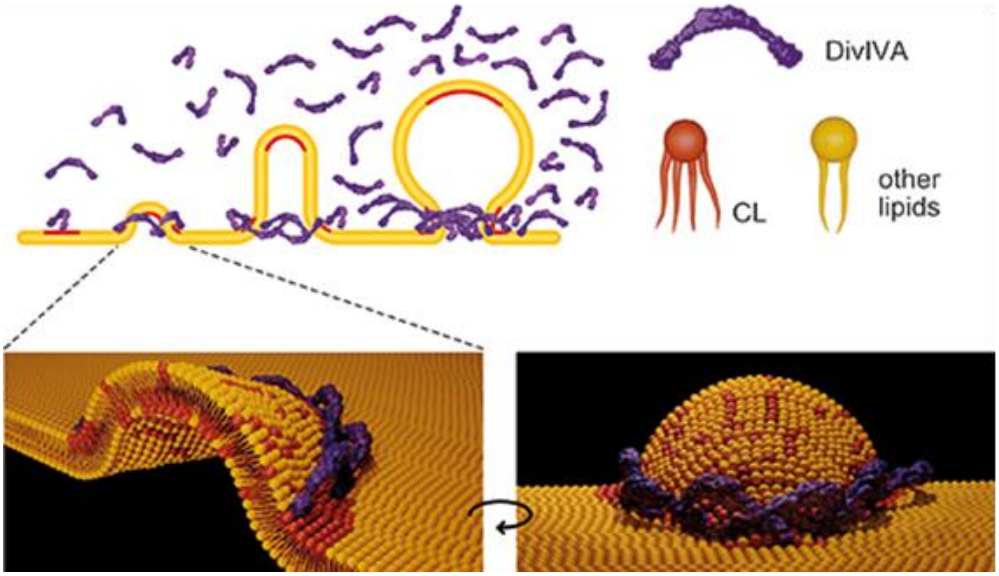
Výstupy:

1. ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - MAZURÁKOVÁ, Vladislava. - HOMEROVÁ, Dagmar - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - KORMANEC, Ján**. Cross-recognition of promoters by the nine SigB homologues present in *Streptomyces coelicolor* A3(2). In International Journal of Molecular Sciences, 2021, vol. 22, no. 7849. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC).
2. KORMANEC, Ján** - REŽUCHOVÁ, Bronislava - NOVÁKOVÁ, Renáta. Screening systems for stable markerless genomic deletions/integrations in *Streptomyces* species. In Antimicrobial therapies : methods and protocols. - New York : Springer-Verlag, Humana Press, 2021, p. 91-141. ISBN 978-1-0716-1358-0.

C. Úloha *Clostridioides difficile* DivIVA pri tvorbe membrány deliacej prepážky počas bunkového delenia

Autori (za ÚMB SAV): N. Labajová a I. Barák

Dôležitou súčasťou Min systému v gram-pozitívnych baktériách je DivIVA proteín. Tento proteín bol identifikovaný ako priestorový regulátor bunkového delenia v modelovom organizme *Bacillus subtilis*, ale jeho homológy sú prítomné v mnohých iných baktériách, vrátane druhov Clostrídií. Okrem svojej úlohy ako topologického regulátora systému Min počas delenia bakteriálnych buniek sa DivIVA podieľa na segregácii chromozómov počas sporulácie, genetickej kompetencii a syntéze bunkovej steny. DivIVA sa lokalizuje do oblastí s vysokým zakrivením membrány, ako sú bunkové póly a miesto bunkového delenia. Predtým sa predpokladalo, že rozpoznávanie negatívneho zakrivenia je hlavným mechanizmom, ktorým sa DivIVA viaže na tieto špecifické oblasti. My sme ukázali, že *Clostridioides difficile* DivIVA sa prednostne viaže na membrány obsahujúce negatívne nabité fosfolipidy, najmä kardiolipín. Naše pozorovania naznačujú, že DivIVA môže hrať komplexnejšiu a doteraz neznámu aktívnu úlohu pri tvorbe membrány deliacej prepážky počas bunkového delenia.



Projekty

1. VEGA 2/0001/09 - Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis.
2. APVV-18-0104 – Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry.

Výstupy

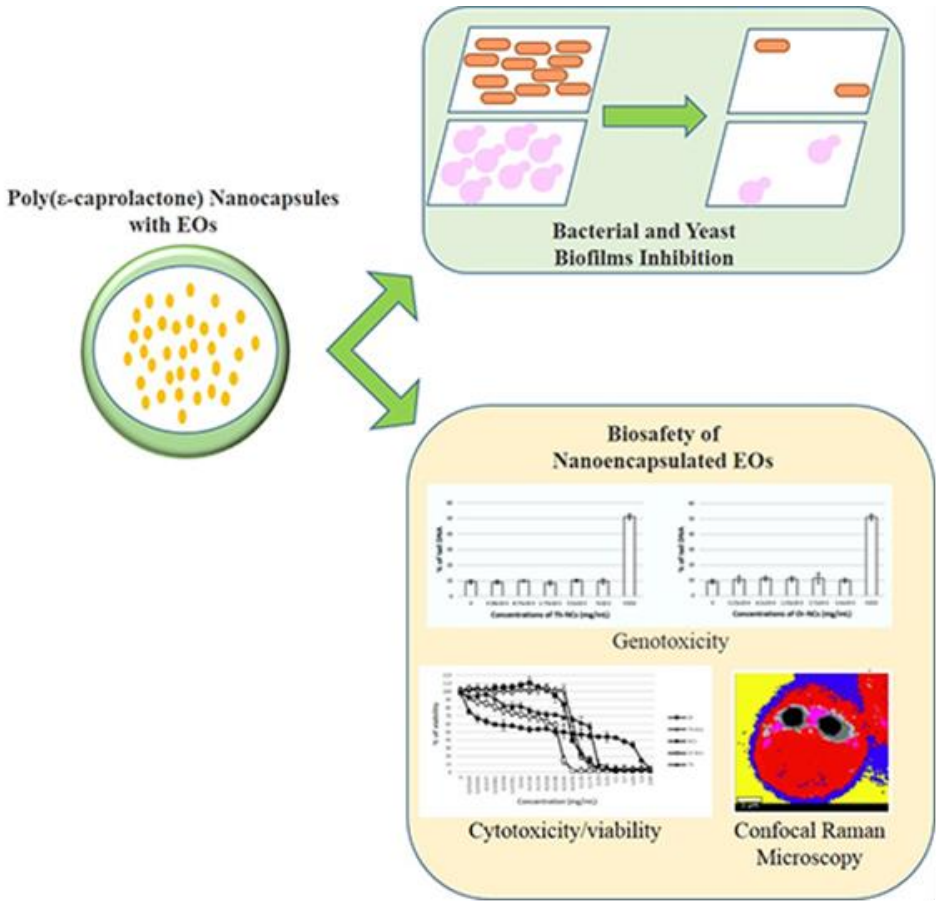
1. LABAJOVÁ, N.** - BARANOVA, N. - JURÁSEK, M. - VÁCHA, R.** - LOOSE, M. - BARÁK, I.**. Cardiolipin-containing lipid membranes attract the bacterial cell division protein divIVA. In International Journal of Molecular Sciences, 2021, vol. 22, no. 8350. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC).

2.3.2. Výsledky aplikačného typu

Poly(ε-kaprolaktón) enkapsulované nanočastice s éterickými olejmi so zvýšenou antimikrobiálnou aktivitou

Autori (za ÚMB SAV): Magdaléna Kapustová (Rusková), Andrea Puškárová, Mária Bučková, Domenico Pangallo

Nadmerné používanie syntetických zlúčenín s antimikrobiálnou aktivitou viedlo k selekcii rezistentných mikroorganizmov. V tejto súvislosti by použitie rastlinných éterických olejov (EO) s antimikrobiálnou aktivitou enkapsulovaných v ekologických nanosystémoch mohlo byť novou a významnou stratégiou na prekonanie tohto problému. EO chemotypu karvakrolu z *Thymus capitatus* a chemotypu tymolu a karvakrolu z *Origanum vulgare* boli zapuzdrené v biokompatibilných poly(ε-kaprolaktónových) nanokapsulách (NC). Tieto nanosystémy vykazovali antibakteriálne, antifungálne a antibiofilmové aktivity proti *Staphylococcus aureus*, *Escherichia coli* a *Candida albicans*. EO nanosuspenzie boli tiež testované proti panelu štrnástich kmeňov húb patriacich do *Ascomycota* a *Basidiomycota phyla*. Okrem toho bola hodnotená aj cytotoxicita a genotoxicita EO nanosuspenzií. Naše výskumy demonštrujú schopnosť poly(ε-kaprolaktónových) NC naplnených tymiánovým a oregánovým EO znižovať mikrobiálny rast a rast biofilmu a mohli by byť ekologickou alternatívou pri vývoji nových antimikrobiálnych stratégií.



Projekty

1. VEGA 2/0059/19 – "Kombinácia nanočastíc a esenciálnych olejov na zmiernenie biologického poškodenia rôznych typov stavebných materiálov".

Výstupy

1. KAPUSTOVÁ, Magdaléna* - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - GRANATA, Giuseppe* - NAPOLI, Edoardo - ANNUŠOVÁ, Adriana - MESÁROŠOVÁ, Monika - KOZICS, Katarína - PANGALLO, Domenico** - GERACI, Coradda**. Biofilm inhibition by biocompatible poly(epsilon-caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. In International Journal of Pharmaceutics, 2021, vol. 606, no. 12, art. no. 120846. (2020: 5.875 - IF, Q1 - JCR, 1.153 - SJR, Q1 - SJR, karentované - CCC).
2. KAPUSTOVÁ, Magdaléna* - GRANATA, Giuseppe* - NAPOLI, Edoardo - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - PANGALLO, Domenico** - GERACI, C.**. Nanoencapsulated essential oils with enhanced antifungal activity for potential application on agri-food, material and environmental fields. In Antibiotics, 2021, vol. 10, no. 31. (2020: 4.639 - IF, Q2 - JCR, 0.960 - SJR, Q1 - SJR).

2.3.3. Výsledky na báze medzinárodnej spolupráce

Antibakteriálna aktivita medu ako kvalitatívny parameter medu zohľadňujúci jeho biologickú funkčnosť

Autori (za ÚMB SAV): J. Majtán, M. Bučeková, J. Godočíková, V. Bugárová

Súčasné platné kvalitatívne parametre pre med nezohľadňujú jeho unikátnu biologickú funkčnosť, pričom med sa zaraďuje medzi tzv. funkčné potraviny. V našej vedeckej práci sme charakterizovali vplyv rôzneho typu zdroja sacharidov (nektár, sacharóza a invertný cukor) na celkovú antibakteriálnu

aktivitu včelou spracovaných produktov. Ukázalo sa, že antibakteriálna aktivita vzoriek medu bola signifikantne vyššia v porovnaní s aktivitou spracovaného roztoku sacharózy alebo invertného cukru. Avšak, nezaznamenali sme žiadne rozdiely v obsahu enzýmu glukózooxidáza a ani v hladinách naakumulovaného peroxidu vodíka medzi jednotlivými včelou spracovanými produktami. Z uvedených výsledkov vyplýva, že za antibakteriálnu aktivitu sú okrem včelích látok čiastočne zodpovedné aj látky botanického charakteru. Antibakteriálna aktivita medu by mohla predstavovať vhodný parameter určujúci kvalitu medu s ohľadom na jeho biologickú funkčnosť.

Projekty

1. VEGA 2/0004/18 – Vplyv včelieho enzýmu glukózooxidáza na antibakteriálne vlastnosti medu a charakterizácia jeho produkcie a aktivity v podhltanových žľazách včely medonosnej (*Apis mellifera*).

Výstupy

1. BUGÁROVÁ, V. - GODOČÍKOVÁ, J. - BUČEKOVÁ, M. - BRODSCHNEIDER, R. - MAJTÁN, J.**. Effects of the carbohydrate sources nectar, sucrose and invert sugar on antibacterialactivity of honey and bee-processed syrups. In Antibiotics, 2021, vol. 10, no. 985. (2020: 4.639 - IF, Q2 - JCR, 0.960 - SJR, Q1 - SJR).
2. MAJTÁN, J.** - BUČEKOVÁ, M. - KAFANTARIS, I. - SZWEDA, P. - HAMMER, K. - MOSSIALOS, D. Honey antibacterial activity: A neglected aspect of honey quality assurance as functional food. In Trends in Food Science and Technology, 2021, vol. 118, p. 870-886. (2020: 12.563 - IF, Q1 - JCR, 2.676 - SJR, Q1 - SJR, karentované - CCC).

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2021/ doplnky z r. 2020
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)	**1 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**3 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**33 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**11 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**3 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**1**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	**Q1**	**Q2**	**Q3**	**Q4**	**Spolu**
Podľa IF z r. 2020 (zdroj JCR) *Počet článkov / doplnky*	22 / 0	16 / 0	3 / 0	3 / 0	44 / 0
Podľa SJR z r. 2020 (zdroj Scimago) *Počet článkov / doplnky*	30 / 0	9 / 0	5 / 0	0 / 0	44 / 0

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2020/ doplnky z r. 2019**
Citácie vo WOS (1.1, 2.1)	1292 / 49
Citácie v SCOPUS (1.2, 2.2)	107 / 4
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	20
Prednášky a vývesky na národných vedeckých podujatiach	5

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

1. Bauer, J.: Interpreting Single-Molecule Force Spectroscopy Experiments with Normal Mode Analysis. *Webinar #13 Instruct Slovakia - 12 Oct 2021 Structure meets function*, Oxford, United Kingdom, 12 Oct 2021. (invited lecture)
2. Bauerová-Hlinková, V.: The Development of Structural Biology in Slovakia: Present and Future Perspectives. *Strategy for future EMBL research infrastructures in the Life Sciences in Hamburg*, Hamburg, Germany, 29-30 Mar 2021. (invited lecture)
3. Urbániková, Ľ.: Protein as the main variable in crystallization. *9th FEBS practical crystallization course - Advanced methods in macromolecular crystallization IX*, České Budějovice, Czech Republic, 9-14 Aug 2021. (invited lecture)

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. Barák, I. Beyond toxin transport: Novel role of ABC transporter for enzymatic machinery of cereulide NRPS assembly line. Virtual TRR261 Seminar Series. University of Tubingen, February 25, 2021.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2021

2.7.1. Vynálezy, na ktoré bol v roku 2021 udelený patent

a) na Slovensku

Názov vynálezu: Biopreparát z Exiguobacterium undae, spôsob jeho výroby a jeho použitie
Číslo patentu: 288915
Dátum priority: 6.3.2018
Majiteľ / spolumajiteľ: Ústav molekulárnej biológie SAV, Ústav hudobnej vedy SAV, Chemický ústav SAV, Technická univerzita vo Zvolene
Pôvodcovia vynálezu: Pangallo Domenico, Bauerová Vladena, Jeszeová Lenka, Bučková Mária, Puškárová Andrea, Kraková Lucia, Baráth Peter, Štafura Andrej, Nagy Štefan, Ing. Martin Čulík, PhD.

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2021

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

Názov vynálezu: Antimicrobial protein, antimicrobial recombinant protein with lytic properties, expression vector, method of their preparation and use
Krajina:
Číslo prihlášky: PCT/SK2021/050016
Dátum priority: 16.12.2021
Majiteľ / spolumajiteľ: Ústav molekulárnej biológie SAV/ Univerzita Komenského v Bratislave
Pôvodcovia vynálezu: Bukovská Gabriela, Bocánová Lucia, Halgašová Nora, Kajsiková Mária, Drahovská Hana doc. RNDr., PhD.

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 2021

b) udelené v roku 2021

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 2021 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
Bauerová Vladena	VEGA	2
Bukovská Gabriela	Vedecká grantová agentúra MŠVVaŠ SR a SAV/komisia VEGA č. 9	1
Krajčíková Daniela	VEGA	1
Majtán Juraj	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Barák Imrich	0	0	5	0	0	0	0
Bučeková Marcela	0	0	7	0	0	0	0
Bukovská Gabriela	0	0	1	0	0	0	0
Gabriško Marek	0	0	1	0	0	0	0
Janeček Štefan	0	0	30	0	0	0	0
Kormanec Ján	0	0	1	0	0	0	0
Labajová Naďa	0	0	4	0	0	0	0
Majtán Juraj	0	0	21	0	0	0	0
Urbániková Ľubica	0	0	1	0	0	0	0
Zámocký Marcel	0	0	6	0	0	0	0
Spolu	**0**	**0**	**77**	**0**	**0**	**0**	**0**

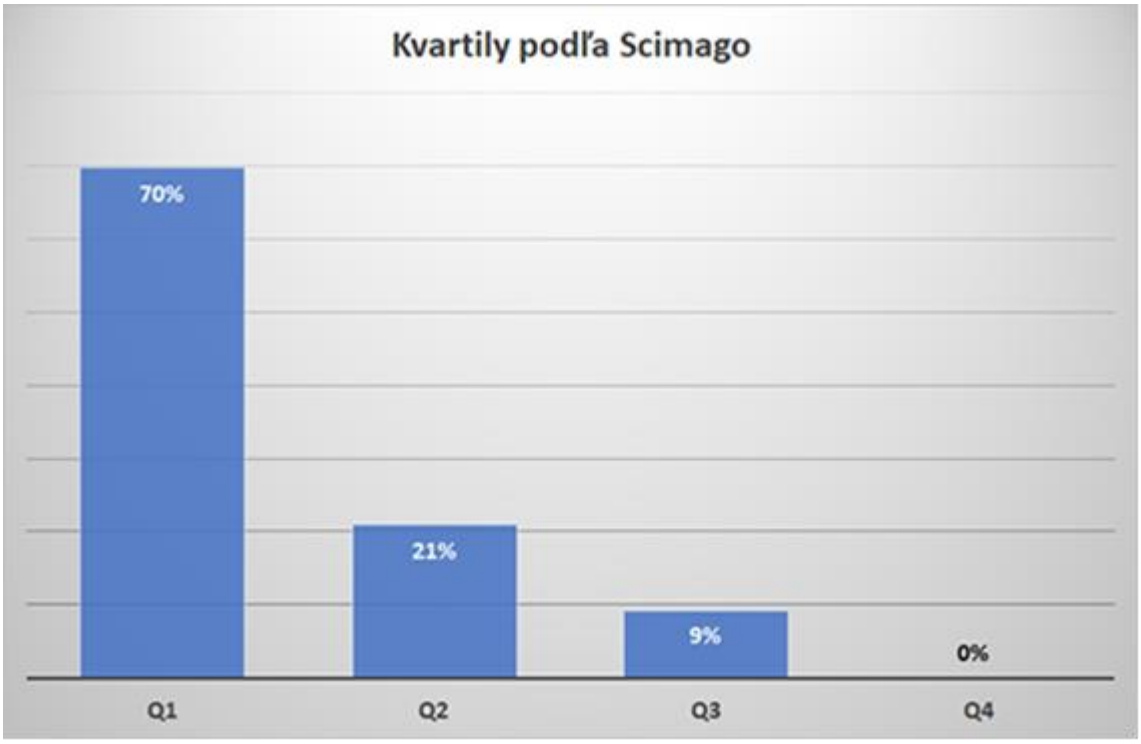
2.11. Iné informácie k vedeckej činnosti.

ÚMB SAV zareagoval na vzniknutú situáciu súvisiacu s príchodom pandémie COVID-19 a zapojil sa do jej riešenia už v roku 2020. Skupina Dr. I. Baráka sa začlenila do špecifickej celosvetovej výzvy European XFEL s názvom: New structures to fight COVID-19 solved by liquid jet SFX at the European XFEL. Podaný projekt bol úspešný a bol mu garantovaný “beam time” v apríli 2021 a už sa získali prvé výsledky z kokryštálov proteáz SARS-Cov-2 s potenciálnymi inhibitórmi. Dr. V. Leksa v spolupráci so skupinou prof. H. Stockingera na Lekárskej fakulte vo Viedni pracuje na vývoji liečiva na COVID-19.

Ústav pokračuje vo svojich medzinárodných vedeckých aktivitách kde je zapojený do Európskeho XFEL-u (X-ray Free Electron Laser) v Hamburgu, ktorý by mal revolucionizovať štrukturálnu biológiu nielen na Slovensku, ale aj vo svete. Pracovníci ústavu pracujú v orgánoch SFX/SPB a XBI konzorcií alebo ako vedeckí pracovníci XFEL-u. Títo pracovníci sa zúčastnili aj na prvých meraniach po spustení prevádzky tohto svetovo unikátneho zariadenia a prvé výsledky boli publikované v prestížnom časopise Nature Communications, Communication Physics – Nature a Journal of Applied Crystallography.

Naša organizácia je medzinárodne etablovaná aj vďaka vedeckým databázam vytvoreným a spravovaným naším Oddelením genomiky a biotechnológií. Užitočnosť týchto databáz sa neprejavuje počtom citácií, ale počtom webových prístupov. Naše databázy zaznamenali vysoký počet unikátnych webových návštevníkov – vyše 6 tisíc pre databázu phiSITE, 2400 pre viruSITE a vyše 400 pre phiBIOTICS.

Na Ústave molekulárnej biológie sa dlhodobo orientujeme na výskum, ktorý vedie k publikáciám v kvalitných zahraničných periodikách s vyšším IF a so zameraním na lepšiu citovanosť, čo sa premieta do veľmi dobrého medzinárodného postavenia ústavu a do kvalitnej medzinárodnej spolupráce. V roku 2021 vedeckí pracovníci ústavu publikovali celkovo 44 impaktovaných vedeckých publikácií. Novozavedený scientometrický indikátor, kvartily časopisov, potvrdil vysokú kvalitu našich publikácií. Vyše 90 % je v 1. a 2. kvartile Scimago (70 % z nich spadá do 1. kvartilu a 21 % do 2. kvartilu). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác. Za rok 2020 (vykazované v roku 2021) sme dosiahli 1442 ohlasov (WOS a SCOPUS).



Pokračujeme v realizácii akčného plánu ústavu. Pri hodnotení pracovných skupín a pracovníkov uplatňujeme kritériá minimálnej vedeckej výkonnosti zavedené v predchádzajúcom roku. Podporujeme ako kvalitný základný výskum tak aj výskum s potenciálnym využitím v praxi. Vedeckí pracovníci ústavu vyvíjajú každý rok značné úsilie pri získavaní mimo akademických prostriedkov, každoročne podávajú žiadosti o nové projekty do národných agentúr, vstupujú so žiadosťami do vedeckých programov podporovaných EU a projektov iných agentúr. S tým je spojené aj množstvo časovo náročnej administratívnej práce.

V rámci medzinárodného projektu Interreg SK-AU „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“, bolo vybudované prvé automatizované pracovisko štruktúrnej biológie na Slovensku.

Jasným zviditeľnením medzinárodného postavenia ÚMB SAV je aj skutočnosť, že mnohí naši vedeckí pracovníci sú oslovovaní editormi z renomovaných zahraničných vedeckých časopisov ako recenzenti publikácií a ako experti sa zúčastňujú hodnotenia medzinárodných projektov.

Na národnej úrovni je ústav zapojený do projektu štrukturálnych fondov „Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácií SR a možnosti prevencie nádorov spojených s týmto syndrómom, ktorého partnermi sú GENETON s.r.o., Chemický ústav SAV, MEDIREX GROUP ACADEMY n. o., POWERTEC s. r. o., Slovgen s. r. o. a Univerzitná nemocnica s poliklinikou Milosrdní bratia. Projekt sa venuje výskumu a vývoju v oblasti problematiky dedičných nádorov spôsobených Lynchovým syndrómom a predpokladaného genetického pozadia vyššieho výskytu vybraných typov nádorov v slovenskej populácii. Náš ústav sa zaoberá štúdiom črevného mikrobiómu pacientov s kolorektálnym karcinómom a ľudí s Lynchovým syndrómom.

Pri doktorandskom štúdiu sa na ústave kladie dôraz na výber školiteľov, kde dôsledne požadujeme krytie kvalitnými projektami a solídnu publikačnú činnosť školiteľa. Dôsledne sme uplatňovali „Vnútorný systém zabezpečenia kvality doktorandského štúdia“ pri prijímaní nových doktorandov, ktorý sa prijal v roku 2020. Aby sme zabezpečili kariérny rast vedeckých pracovníkov, maximálne podporujeme krátkodobé i dlhodobejšie pobyty na zahraničných pracoviskách, workshopoch a kurzoch, ktoré by pomohli priniesť na ústav nové vedomosti a praktické skúsenosti, ale aj nadšenie a inšpiráciu. V tomto ako aj v minulom pandemickom roku sa tieto aktivity preniesli prevažne do internetových seminárov ústavu ako aj účasti na zahraničných internetových seminároch a konferenciách.

V tomto roku bol ocenenný Dr. I. Barák ako Vedec roka SR 2020 a finalista ESET Science Award, v kategórii Výnimočná osobnosť slovenskej vedy.

Na základe pozvania prof. Ivany Kutej-Smatanovej z Fakulty prírodných vied Jihočeskej univerzity v Českých Budějoviciach (hlavná organizátorka kurzu) sa Ľubica Urbániková ako lektorka zúčastnila na 9. FEBS praktického kryštalizačného kurzu “Pokročilé metódy v kryštalizácii makromolekúl IX” (9th FEBS practical crystallization course “Advanced methods in macromolecular crystallization IX). Kurz sa konal v priestoroch Jihočeskej univerzity v Českých Budějoviciach v čase 9.-14.8.2021. Ide o medzinárodný kryštalizačný kurz s veľmi dobrým ohlasom u študentov, lektorov aj zástupcov FEBS, ktorý sa koná v pravidelných intervaloch už od roku 2004. Kurzy s kapacitou okolo 20-30 vybraných študentov z celého sveta sú kombináciou teoretických prednášok, praktických cvičení a kryštalizáciou proteínov prinesených študentami. Ľubica Urbániková predniesla prednášku “Proteins as the main variable in crystallization” a viedla aj praktické cvičenia kryštalizácie proteínov.

V tomto roku mali naši pracovníci výrazne obmedzenú účasť na konferenciách, pretože väčšina vrátane tých, ktoré boli už zaplatené, boli kvôli situácii spojenej s pandémiou COVID-19 zrušené.

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 2021

Forma	Počet k 31.12.2021				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2021					
							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	3	11	1	3	3	8	1	3	0	1	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	1	1	0	0	1	1	0	0	0	0	0	0
Spolu	4	12	1	3	4	9	1	3	0	1	0	0
Z toho zahraničných	1	1	0	0	1	1	0	0	0	0	0	0
Súhrn	16		4		13		4		1		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2021 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

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	1	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2021 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 hodnosť
Mgr. Zuzana Kisová	interné štúdium hradené z prostriedkov SAV	9 / 2017	8 / 2021	4.2.7 mikrobiológia	RNDr. Mária Bučková PhD., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2021 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 hodnosť
Mgr. Veronika Kotrasová	interné štúdium hradené z prostriedkov SAV	9 / 2016	8 / 2021	4.2.3 molekulárna biológia	Ing. Eva Kutejová DrSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Maroš Laho	interné štúdium hradené z prostriedkov SAV	9 / 2015	8 / 2021	4.2.7 mikrobiológia	RNDr. Jaroslav Klaudiny PhD., Chemický ústav SAV	Prírodovedecká fakulta UK
Mgr. Barbora Stojkovičová	interné štúdium hradené z prostriedkov SAV	9 / 2017	11 / 2021	4.2.3 molekulárna biológia	RNDr. Vladimír Pevala PhD., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2021 (obhajoba leto 2021)	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
3	2	1	0	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	BIH/1, SRB/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	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
chémia	1420	biochémia	Prírodovedecká fakulta UK
biológia	1536	genetika, mikrobiológia, molekulárna biológia	Prírodovedecká fakulta UK
biochémia	4.1.22		Prírodovedecká fakulta UK
molekulárna biológia	4.2.3		Prírodovedecká fakulta UK
genetika	4.2.4		Prírodovedecká fakulta UK
mikrobiológia	4.2.7		Prírodovedecká fakulta UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3.

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do 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. Imrich Barák, DrSc. (mikrobiológia)	Prof. Ing. Štefan Janeček, DrSc. (Fakulta prírodných vied UCM)	Mgr. Marcela Bučeková, PhD. (IIa)
RNDr. Gabriela Bukovská, CSc. (mikrobiológia)		Mgr. Zuzana Chromiková, PhD. (IIa)
Prof. Ing. Štefan Janeček, DrSc. (molekulárna biológia)		Mgr. Barbora Stojkovičová, PhD. (IIb)
RNDr. Ján Kormanec, DrSc. (biochémia)		Prof. Ing. Štefan Janeček, DrSc. (prof., Univerzita sv. Cyrila a Metoda v Trnave)
RNDr. Ján Kormanec, DrSc. (molekulárna biológia)		Mgr. Barbora Stojkovičová, PhD. (PhD., Prírodovedecká fakulta UK)
Dr. Domenico Pangallo, DrSc. (molekulárna biológia)		

Mgr. Andrea Puškárová, PhD. (mikrobiológia)		
RNDr. Ľubica Urbániková, CSc. (biochémia)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2021

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	8	0	12	0
Celkový počet hodín v r. 2021	131	0	301	0

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**	12
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	14
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	11
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	15
5.	**Počet oponovaných dizertačných a habilitačných prác**	10
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	9
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**	3
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	4

3.9. Iné dôležité informácie k pedagogickej činnosti

V priebehu roka 2021 sa na Ústave molekulárnej biológie školilo v internej forme štúdia 14 doktorandov financovaných z prostriedkov SAV, z ktorých jedna doktorandka má prerušené štúdium (materská dovolenka). Ďalší dvaja doktorandi sa školili v externej forme štúdia. V septembri sme prijali tri nové doktorandky a jedného doktoranda. Tri doktorandky a jeden doktorand ukončili v tomto roku svoje štúdium úspešnou obhajobou, všetci v internej forme štúdia. Jedna doktorandka ukončila z vážnych rodinných dôvodov svoje štúdium predčasne, jedna doktorandka v roku 2021 prešla z internej formy štúdia na externú.

V roku 2021 sa na našom ústave uskutočňovalo doktorandské štúdium v štyroch študijných programoch: molekulárna biológia, mikrobiológia a genetika v odbore Biológia a biochémia v odbore Chémia, všetky v spolupráci s Prírodovedeckou fakultou UK Bratislava. Naši vedeckí pracovníci si v tomto roku vypísali 11 tém na doktorandské štúdium vo všetkých štyroch programoch.

Naši doktorandi sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Mnohí z nich viedli v roku 2021 semináre a cvičenia na príslušných katedrách Prírodovedeckej fakulty UK, oponovali bakalárske práce a niektorí sa aktívne zúčastnili výuky na strednej škole a pod. Naša

doktorandka K. Papayová (školiteľka G. Bukovská) získala v roku 2021 DoktorGrant, ktorý bude riešený v roku 2022.

Napriek vzniknutej situácii s COVID-19 pokračovali na ústave semináre, na ktorých doktorandi prezentovali výsledky svojej práce a to formou videokonferenčných seminárov.

Okrem doktorandského štúdia sa viacerí pracovníci ústavu aktívne podieľali na pedagogickom procese na viacerých slovenských ako aj zahraničných (Ultrecht University, Holandsko) univerzitách vedením bakalárskych, diplomových prác a preddiplomovej praxe študentov ako aj vedením seminárov, praktických cvičení a prednášok. Na našom ústave dlhodobo školíme poslucháčov Prírodovedeckej fakulty UK najmä z Katedry molekulárnej biológie, Katedry mikrobiológie a virológie, Katedry biochémie a Katedry genetiky ako aj z Fakulty prírodných vied UCM v Trnave. Okrem toho sa naši vedeckí pracovníci venujú aj študentom stredných škôl, ktorí majú každoročne možnosť zúčastniť sa prednášok na našom ústave v rámci akcie „Deň otvorených dverí“, v roku 2021 formou on line prednášok. V prípade záujmu majú stredoškolskí študenti možnosť získavať skúsenosti pri práci v laboratóriu, prípadne sa svojimi výsledkami zúčastňovať aj súťaže SVOČ.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2021 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

1. konferencia StruBioMol - Štrukturálna biológia pre medicínu a biotechnológiu, Ústav molekulárnej biológie SAV, 133 účastníkov, 06.12.-06.12.2021

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2022 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

The Eight Symposium on the Alpha-Amylase Family - ALAMY_8/Ôsme sympózium o alfa-amylázovej rodine - ALAMY_8, Smolenický zámok, Smolenice, Slovensko, 80 účastníkov, 09.10.-13.10.2022, (Štefan Janeček, 02 5930 7420, Stefan.Janecek@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
Kľučár Ľuboš	0	0	1
Kutejová Eva	1	0	1
Spolu	1	0	2

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Mgr. Ľuboš Kľučár, PhD.

EMBnet (funkcia: manager Národného uzla,tajomník Executive Board)

Mgr. Vladimír Leksa, PhD.

Rakúska spoločnosť pre alergológiu a imunológiu - OEGAI (funkcia: člen)

Ing. Juraj Majtán, DrSc.

International Honey Commission (funkcia: člen)

RNDr. Ľubica Urbániková, CSc.

Česká a slovenská kryštalografická spoločnosť (funkcia: člen vedeckej rady)

RNDr. Marcel Zámocký, DrSc.

RedoxiBase (funkcia: administrator)

4.3. Účasť 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
Bukovská Gabriela	Agentura pro zdravotnický výzkum ČR (AZV), zřízené Ministerstvem zdravotnictví ČR (MZ)	1

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

Finančné prostriedky získané v rámci projektu Interreg SK-AT „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“ http://www.imb.savba.sk/strubiomol/index.php?id=home&lang=sk a významná podpora Predsedníctva SAV vo forme pôžičky umožnili vybudovanie automatizovaného laboratória štruktúrnej biológie, prvého svojho druhu na Slovensku. Vytvorilo sa takto zázemie pre kvalitné vzdelávanie, poskytovanie poradenstva a špičkový výskum v oblasti štruktúrnej biológie pre riešenie problémov v biomedicíne a biotechnológii. V rámci projektu sa tiež uskutočnili konferencia "Structural biology for medicine and biotechnology", prednášky pre študentov, vedeckých pracovníkov z vysokých škôl, ústavov SAV a výskumných pracovísk a open access s využívaním týchto prístrojov.

Skupina Laboratórium evolúcie proteínov (http://imb.savba.sk/~janecek/) vedená prof. Štefanom Janečkom patrí k popredným svetovým pracoviskám zapojených do štúdia amylolytických enzýmov v najširšom zmysle slova. Laboratórium má dlhodobo etablovanú neformálnu širokú medzinárodnú spoluprácu s renomovanými zahraničnými laboratóriami v Európe aj v zámorí, ktorá sa prejavuje najmä v riešení ad hoc rôznych výskumných problémov (napr. 10 spoločných publikácií za posledných 5 rokov 2017-2021 v časopisoch Biotechnology Advances, Scientific Reports, Applied Microbiology and Biotechnology, FEBS Letters, Glycobiology, Proteins, 3Biotech a Amylase). Jednou z najvýznamnejších je viac ako 25-ročná spolupráca s prof. Birte Svenssonovou (Dánska technická univerzita v Kodani, Dánsko), v rámci ktorej bola v roku 2021 realizovaná polročná stáž Filipa Marečka na DTU v Kodani podporená štipendiom SAIA v rámci ktorej úspešne pripravil a čiastočne biochemicky charakterizoval 4 amylolytické enzýmy z podrodiny GH13_39, pričom amylopululanázu z *Gottschalkia acidurici* sa mu podarilo získať v čistote a množstve vhodnom na následnú kryštalizáciu. Z ďalšej spolupráce významnej v roku 2021 možno spomenúť spoločnú prípravu publikácie typu "Opinion" pre časopis Amylase autorov Štefan Janeček a Birte Svensson, ktorá prináša zosumarizované názory autorov na alfa-amylázové rodiny v rámci databázy CAZy, klasifikujúcej enzýmy aktívne voči sacharidom (článok vyšiel začiatkom roku 2022). Naďalej pokračuje aj spolupráca s Nicole Koropatkinovou (Michiganská univerzita v Ann Arbor, Michigan, USA), týkajúca sa detailnej bioinformatickej analýzy škrob-viažucej domény z rodiny CBM74, ktorej terciárnu štruktúru vyriešili kolegovia v USA. Prejavom širokej medzinárodnej spolupráce vedúceho skupiny je aj dohoda v programovom výbore konferencie na uskutočnení v poradí už 8. sympózia zo série ALAMY (ALpha-AMYlase family; http://imb.savba.sk/~janecek/Alamys/Alamy_8/) v dňoch 9.-13. októbra 2022 tradične na Smolenickom zámku.

Pracovná skupina Fylogenomickej ekológie dosiahla v roku 2021 nové významné výsledky týkajúce sa štúdia enzýmových antioxidantov. Popri superoxid dismutázach sme sa tento rok zamerali najmä na funkčnosť a evolučný pôvod askorbátových peroxidáz, ktoré hrajú dôležitú úlohu v rastlinných systémoch a môžu recyklovať vitamín C. Výsledky sme publikovali v spolupráci s výskumníkmi z

brazílskej univerzity v Porto Alegre. Ďalej sme pokračovali vo výskume peroxidáz-cyklooxygenáz z bezstavovcov v spolupráci s Universität für Bodenkultur vo Viedni. Tieto hémové haloperoxidázy majú sľubné biotechnologické využitie a podarila sa ich heterológna expresia. Napokon sa naše výskumy v spolupráci s výskumníkmi z Masarykovej univerzity v Brne zamerali na podrobné 3D modelovanie aktívneho centra unikátnych hybridných peroxidáz spolu s presne dokovanou hémovou prostetickou skupinou. Takto získané výsledky napovedajú o reaktivite týchto zvláštnych peroxidáz a umožňujú ich použitie ako enzýmové antioxidanty.

Laboratórium apidológie a apiterapie ÚMB SAV pod vedením Ing. Juraja Majtána, DrSc. sa v ostatnom roku aktívne podieľalo na medzinárodnej spolupráci s poprednými svetovými pracoviskami vo výskume medu a ostatných včelích produktov. V roku 2021, laboratórium hostilo zahraničnú doktorandku, Dr. Karolina Pelka z University of Gdansk (Poľsko) po dobu 3 mesiacov. Spoločná mediznárodná spolupráca v oblasti výskumu medu z pracoviskami v Poľsku, Grécku a Austrálii vyústila do spoločného vedeckého výstupu – publikácie v prestížnom karentovom periodiku “Trends in Food Science and Technology“ s IF 12,563.

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)

Celkové posúdenie tak ako bolo formulované v správe akreditačnej komisie

Ústav molekulárnej biológie mal v posledných rokoch v priemere okolo 40 výskumných pracovníkov (FTE). V súčasnosti existuje 6 rôznych oddelení, ktoré boli rozdelené do 13 laboratórií. Laboratóriá sú tematicky celkom dobre prepojené, ich vyšší počet je však pomerne neobvyklý a mohlo by byť rozumné ich počet znížiť.

Pripomienky a odporúčania pre budúce zlepšovanie inštitútu

· Inštitút potrebuje jasnú stratégiu svojho budúceho výskumného programu, aby sa mohli uprednostniť perspektívne výskumné projekty a aby bolo možné dosiahnuť medzi nimi väčšiu synergiu.
· Štruktúra inštitútu (6 oddelení a 11 laboratórií) je pomerne komplikovaná vzhľadom na to, že v ústave pracuje 43 vedeckých pracovníkov. MPV odporúča štruktúru ústavu prehodnotiť.
· Chýba politika duševného vlastníctva, ktorú je potrebné začať rozvíjať. Prínosom by boli viac aplikované výskumné projekty, vrátane medzinárodných.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Vedecká kvalita a produktivita

Naším primárnym cieľom je robiť kvalitný základný výskum a publikovať naše výsledky v prestížnych impaktovaných časopisoch a sme presvedčení, že sa nám to do značnej miery darí plniť. Od akreditácie (2016-2021) máme z celkového počtu 212 impaktovaných publikácií s priemerným IF 4,345, 116 publikácií s IF 4,0 – 16.9, pričom medián IF pre oblasť BIOCHEMISTRY & MOLECULAR BIOLOGY je 3,861 a pre oblasť MICROBIOLOGY 3,473. Okrem toho väčšina našich publikácií (až 88 %) bola publikovaná v časopisoch patriacich do prvých dvoch kvalitatívnych kvartilov Scimago. Citovanosť našich článkov za obdobie (2016-2021) bola tiež na veľmi dobrej úrovni - 5789 citácií WOS a Scopus. V rámci nášho akčného plánu sa budeme snažiť zvýšiť počet publikácií, ich kvalita však bude zásadný ukazovateľ, ktorý budeme sledovať.

Navrhovaný spôsob zlepšenia:

Výskum, ktorý sa realizuje na našom pracovisku je zameraný na štúdium molekulárneho mechanizmu biologických procesov vyžadujúci si množstvo zložitých experimentov, ktoré sú časovo náročné a nie je možné publikovať neúmerné množstvo dobre impaktovaných článkov. V záujme zvýšenia publikačnej činnosti v nasledujúcom období budeme klásť dôraz na to, aby sme pri plánovanom zvyšovaní počtu prác zachovali, resp. zvýšili kvalitu výstupov, motivovali šikovných vedeckých pracovníkov a v neposlednom rade analyzovali príčiny neúspechu tých, ktorých publikačná činnosť zaostáva. Vedecká činnosť bude vyhodnotená každý rok ako priemer hodnotení za posledné tri roky pričom uplatňujeme kritériá minimálnej vedeckej výkonnosti zavedené v predchádzajúcom roku.

Doktorandské štúdium

Doktorandskému štúdiu venujeme na našom ústave veľkú pozornosť, čoho výsledkom je, že úspešnosť ukončenia štúdia za obdobie od poslednej akreditácie organizácie (2016 – 2021) bola vysoká - 19 úspešne ukončených doktorandov, jedno predčasne ukončené štúdium doktorandky v externej forme štúdia (v r. 2018) a jednej doktorandky v dennej forme štúdia (v r. 2021). Povolený počet doktorandov bol pravidelne naplnený a vo väčšine rokov nám bola udelená výnimka na prijatie ďalšieho študenta, čím sme tento počet často prekračovali. Doktorandi, ktorí ukončili doktorandské štúdium za hodnotené obdobie boli veľmi úspešní, čo súvisí aj s kvalitnou prácou ich školiteľov a čo

sa odrazilo vo vysokom počte ich impaktovaných publikácií. Napriek tomu panel vo svojom veľmi stručnom hodnotení iba uvádza, že ak by to bolo finančne možné, ústav by mohol mať viacej doktorandov, a v tejto oblasti zaradil ÚMB do kategórie B. V našom akčnom pláne navrhujeme isté zlepšenia aj v tejto oblasti. Pri výbere školiteľov budeme dôsledne požadovať krytie kvalitnými projektami a solídnu publikačnú činnosť školiteľa, minimálne dve impaktované publikácie za posledné 4 roky. Pri prijímaní doktoranda budeme kontrolovať ich predchádzajúce študijné výsledky a prijmeme len kvalitných uchádzačov. V rámci našich prednášok na vysokých školách budeme aktívne vyhľadávať špičkových študentov a motivovať ich pre doktorandské štúdium na našom ústave. Ponuka vypísaných doktorandských tém bude uvádzaná na našom webe v slovenskom a anglickom jazyku a budú oslovené potenciálne zahraničné univerzitné pracoviská so zámerom získať kvalitných doktorandov aj zo zahraničia. V súčasnosti máme na ústave dvoch zahraničných doktorandov. Budeme tiež podporovať vycestovanie doktorandov na kurzy organizované napr. EMBO a EMBL ako aj ich pobyty na kooperujúcich pracoviskách za využitia cestovných grantov ARA a iných. Pokúsime sa organizovať výmenné pobyty doktorandov v rámci spolupráce so zahraničnými pracoviskami. V spolupráci s relevantnými zahraničnými inštitúciami sa budeme usilovať o realizáciu duálneho doktorandského štúdia, kde by mal doktorand slovenského a navyše aj zahraničného školiteľa a získal by titul PhD. zo slovenskej i zahraničnej univerzity. V neposlednom rade ÚMB SAV motivuje študentov po ich úspešnom ukončení doktorandského štúdia na absolvovanie postdoktorálneho pobytu na zahraničných prestížnych pracoviskách a následne im umožní začleniť sa do pracovných skupín s podporou fondu Š. Schwarza.

Vyhliadky do budúcnosti

Vedenie a Vedecká rada ÚMB SAV sa bude aj naďalej usilovať o napĺňanie opatrení Akčného plánu. Pracovníci ústavu sa každoročne pokúšajú zapojiť do programov ERA a Horizont 2020. Úspech je závislý aj od vypísaných tematických oblastí a veľmi ťažko sa dá ovplyvniť. Ústav bol v hodnotenom období poslednej akreditácie 2012-2015 úspešný v získavaní zahraničných grantov. Podieľali sme sa na riešení jedného 6RP a dvoch 7RP, švajčiarskeho Swiss National Science Foundation grantu, nemeckého Humboldt Foundation grantu a dvoch COST projektov, čo je na 40 FTE značná úspešnosť. Hoci je získanie grantových projektov ERA a Horizont 2020 ovplyvnené vo veľkej miere zahraničnými partnermi, budeme podporovať zapájanie sa pracovníkov do týchto výziev a zohľadňovať v odmeňovaní tých vedúcich pracovníkov, ktorí si podajú žiadosť o takýto projekt. V minulom roku sa pracovníci ústavu zapojili do programu European Interest Group CONCERT-Japonsko s projektom Trvalo udržateľná regenerácia vody založená na filtrácii keramickými membránami a v rámci programu SAS-MOST (Taiwan) Joint Research Projects (2021-2023) sa rieši projekt (Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémií). Aj keď prvotným poslaním Slovenskej akadémie vied je kvalitný základný výskum, je určite veľmi prospešné keď sa získané výsledky, ktorých nositeľom je naše pracovisko, prenesú do praxe.

Na ústave bol iniciovaný projekt Medové laboratórium, ktorého snahou je poskytovať širokej verejnosti možnosť analýzy antibakteriálnej aktivity medov a už v tomto roku zaznamenal značný záujem, hlavne drobných včelárov zo Slovenska ale aj záujem zo zahraničia (Rakúsko a Ruská federácia) a v jeho aktivitách sa plánuje pokračovať aj v nasledujúcom období.

Na ústave budeme podporovať aj výskum s priamou väzbou na výstup do praxe a budeme dbať na to, aby získané výsledky chránené v súlade s platnou legislatívou, našli uplatnenie v spoločnosti. V tomto roku bol udelený **patent** na vynález s názvom „*Biopreparát z Exiguobacterium undae, spôsob jeho výroby a jeho použitie.* Patentová prihláška PP50075-2020 „Antimikrobiálny proteín, antimikrobiálny rekombinantný proteín s lytickými vlastnosťami, expresný vektor, spôsob ich prípravy a použitie“ bola rozšírená do zahraničia pod podacím číslom **PCT/SK2021/050016.** Na základe výsledkov 7. rámcového programu bola predĺžená zmluva s konzorciom zahraničných firiem Nemysis o vzájomnej spolupráci v oblasti biotechnológií, ktorá sa úspešne realizuje.

V decembri 2021 bola podpísaná zmluva o spolupráci na obdobie 1 roku (od 1.1.2022 do 31.12.2022) medzi ÚMB SAV a súkromnou spoločnosťou NOTUS - POWERSONIC s.r.o. so sídlom vo

Vrábloch. Nosnou témou spolupráce je výskum alternatívneho technologického spracovanie medu pomocou ultrazvuku. Cieľom je vyrobiť a optimalizovať prototyp zariadenie na šetrné opracovanie medu, ktoré zabráni kryštalizácii medu.

5.3. Aktualizácia Akčného plánu organizácie v roku 2021

Z iniciatívy Predsedníctva SAV bol vypracovaný „Vnútorný systém zabezpečenia kvality doktorandského štúdia“, ktorý sa dôsledne uplatňoval aj pri prijímaní nových doktorandov v tomto roku. Princípy zahrnuté v tomto pláne sa na našom ústave uplatňovali dlhodobo a tak jeho napĺňanie pre nás nerobilo, ani v budúcnosti nebude robiť problém. Pri prijímaní doktorandov sa kladie dôraz ako na kvalitu samotného vedúceho tak na kvalitu prijímaného doktoranda a zabezpečenie kvalitnými projektami.

Aj tomto roku ako aj v budúcnosti sa v personálnej politike budeme riadiť zásadami hodnotenia pracovných skupín ako aj všetkých vedeckých pracovníkov, ktoré boli prijaté AO v roku 2019. V prípade nízkej výkonnosti výskumnej skupiny bude vedenie ústavu spolu s vedeckou radou analyzovať dôvody a zváži možnosť preloženia kvalitných pracovníkov do iných skupín a nepredĺženie pracovnej zmluvy neproduktívnym pracovníkom. Pracovníci budú mať možnosť požiadať o presunutie do inej skupiny, pričom tento presun bude podmienený vyjadrením vedúcich oboch skupín. VR spolu s vedením ústavu budú sledovať aj výstupy všetkých vedeckých pracovníkov za posledných 5 rokov. Kritériá minimálnej vedeckej výkonnosti výskumných pracovníkov boli stanovené na základe priemernej publikačnej výkonnosti pracovníkov za posledné akreditačné obdobie. V prípade nesplnenia minimálnych kritérií prebehne diskusia s vedeckým pracovníkom, jeho vedúcim, vedením ÚMB SAV a VR. Ak toto nebolo spôsobené objektívnymi skutočnosťami (práceneschopnosť, materská dovolenka a iné), nebude danému pracovníkovi predĺžená pracovná zmluva.

Vzhľadom na vzniknutú situáciu s COVID-19 časť pracovníkov presunula svoje aktivity na prácu z domu. Reorganizovala sa aj práca v laboratóriách tak, aby sa zabezpečili požadované odstupy a bezpečnosť voči nakazeniu koronavírusom. Táto skutočnosť si vyžiadala veľké úsilie pri koordinácii laboratórnej práce ako aj vzájomnej tolerancie samotných pracovníkov.

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: Cardiff University, Wales, UK
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2009
Zhodnotenie: Spolupráca je zameraná na charakterizáciu rekombinantne pripravených domén ľudského ryanodínového receptora 2, exprimovaného predovšetkým v srdcovom svale. V rámci spolupráce bolo publikovaných niekoľko publikácií v zahraničných karentovaných časopisoch.

Názov univerzity/vysokej školy a fakulty: Ecole Polytechnique Federale de Lausanne, Švajčiarsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2014
Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: Ecole Polytechnique Federale de Lausanne, Švajčiarsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2013
Zhodnotenie: I. Barák pôsobil ako pozvaný profesor na EPFL počas troch mesiacov v roku 2013 a začal spoluprácu s prof. Rizlan Bernier-Latmani týkajúcu sa sporulácie u bacilov a klostrídií.

Názov univerzity/vysokej školy a fakulty: Institute of Organic Synthesis and Photoreactivity, National Research Council, Bologna, Italy
Oblasť spolupráce: Štúdium inhibítorov ľudskej Lon proteázy
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2012
Zhodnotenie: V rámci spolupráce sa vyhľadávajú potenciálne inhibítory ľudskej mitochondriálnej ATP-závislej proteázy Lon.

Názov univerzity/vysokej školy a fakulty: Karlova Univerzita v Prahe, Česká republika
Oblasť spolupráce: elektrónová mikroskopia
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2011
Zhodnotenie: Spolupracujeme s Lekárskou fakultou Karlovej univerzity v Prahe na stanovení štruktúry ATP-závislej proteázy pomocou elektrónovej mikroskopie. Dokončili sa merania EM a určila sa 3D štruktúra ľudskej Lon proteázy.

Názov univerzity/vysokej školy a fakulty: Přírodovědná fakulta ‚Masarykova Universita Brno
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011
Zhodnotenie: Charakterizácia vlastností Mgm101 proteínu, MS analýza Lon proteázy, jej produktov a interagujúcich partnerov.

Názov univerzity/vysokej školy a fakulty: Universität Wien, Rakúsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2009
Zhodnotenie: Max Perutz Labs: kryštalizácia a X-ray analýza bielkovín Medical University: Charakterizácia proteínov zodpovedných za kontrolu proteolýzy na povrchu bunky.

Názov univerzity/vysokej školy a fakulty: University of Bologna, Taliansko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2013
Zhodnotenie: Charakterizácia úlohy ATP-závislých proteáz pri starnutí buniek.

Názov univerzity/vysokej školy a fakulty: University of Novi Sad, Srbsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2014
Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: University of York, Veľká Británia
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 1995
Zhodnotenie: V rámci tejto spolupráce bolo niekoľko spoločných grantových projektov a to konkrétne 3 x z The Wellcome Trust a 1 x z The Royal Society. Spolupráca sa dlhodobo týka štúdia základných bunkových procesov u *Bacillus subtilis* na molekulovej úrovni.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2010
Zhodnotenie: Štúdium mitochondriálnych proteínov

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

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

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

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: Príprava bakteriofágov na terapiu vaginálnych a močových infekcií
Agentúra: APVV
číslo projektu: APVV-16-0168
Spolupracujúce inštitúcie: Univerzita Komenského Bratislava (Prírodovedecká fakulta, Lekárska fakulta, Vedecký park)
Koordinátor projektu: Prírodovedecká Fakulta UK Bratislava
Začiatok spolupráce: 2017
Koniec spolupráce: 2021
Zhodnotenie: Výsledkom spolupráce bola príprava a podanie patentovej prihlášky č. PP 50075-2020 v Slovenskej republike. Prihlasovatelia: Ústav molekulárnej biológie SAV, Univerzita Komenského v Bratislave. Názov: „Antimikrobiálny proteín, antimikrobiálny rekombinantný proteín s lytickými vlastnosťami, expresný vektor, spôsob ich prípravy a použitie“16.12.2021 bola podaná PCT medzinárodná prihláška pod číslom PCT/SK2021/050016. „Antimicrobial protein, antimicrobial recombinant protein with lytic properties, expression vector, method of their preparation and use“ v anglickom jazyku.

Názov projektu: Izolácia a pokročilá charakterizácia nových probiotických mikroorganizmov s potenciálom pre uplatnenie v biomedicíne a biotechnológiách
Agentúra: VEGA
číslo projektu: VEGA 1/0519/18
Spolupracujúce inštitúcie: UPJŠ Košice
Koordinátor projektu: UPJŠ Košice
Začiatok spolupráce: 2018
Koniec spolupráce: 2021
Zhodnotenie:

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

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

Aj v roku 2021, Laboratórium apidológie a apiterapie ÚMB SAV pokračovalo v poskytovanej komerčnej služby pre včelárov v rámci projektu "medové laboratórium" ako aj v bezplatnej konzultácii pre včelárov. V máji 2021 bolo podpísane memorandum o spolupráci medzi ÚMB SAV a Slovenským zväzom včelárov orientované na výskum nových kvalitatívnych parametrov medu. Laboratórium apidológie a apiterpaie ÚMB SAV sa podieľa aj na ďalších komerčných aktivitách a to vykonávaním vedeckých analýz prírodných produktov ako sú esenciálne oleje, extrakty húb a kanabinoidy pre súkromné tuzemské a zahraničné subjekty.

V roku 2021 boli prostredníctvom Kancelárie pre transfer technológií oslovené viaceré národné a medzinárodné biotechnologické firmy s ponukou technológie prípravy nového antimikrobiálneho rekombinantného proteínu EN534-C s lytickými vlastnosťami voči patogénnym kmeňom *Streptococcus agalactiae* pre potenciálnych záujemcov z priemyslu.

Záujem prejavili spoločnosť PhagoMed Biopharma GmbH z Viedne, firmy TECHNOPHAGE (Portugalsko), s ktorou sa uskutočnilo online stretnutie a spoločnosť MICREOS (Švajčiarsko) (https://www.micreos.com/), s ktorou sa tiež uskutočnilo online stretnutie a rozhovory ďalej pokračujú.

Pracovná skupina Fylogenomickej ekológie dosiahla v roku 2020 významné výsledky týkajúce sa enzýmových antioxidantov. Tieto sú reprezentované predovšetkým peroxidázami a katalázami, u ktorých sa v spolupráci s Universität für Bodenkultur vo Viedni skúma ich reaktivita a stabilita pre aplikáciu v zelených biotechnológiách.

V tomto roku sa začala spolupráca Laboratória environmentálnej a potravinovej mikrobiológie s Kyoto University a TUBITAK Marmara Research Center, ktorá je zameraná na vývoj keramických membrán na čistenie mikro- a nanoplastov z odpadových vôd a aj ich antimikrobiálnu schopnosť.

Pokračuje sa v riešení problematiky biodegradácie predmetov kultúrneho dedičstva, riešená Laboratóriom environmentálnej a potravinovej mikrobiológie v spolupráci s viacerými inštitúciami ako napríklad Slovenský národný archív (Bratislava), Slovenské národné múzeum (Bratislava a Betliar) a Slovenská národná knižnica (Martin). Spolu s Fyzikálnym ústavom SAV sa optimalizujú kombinácie nanočastíc a esenciálnych olejov na zmiernenie biologického poškodenia rôznych typov stavebných materiálov (pieskovec, drevo a papier).

Pokračovalo sa v spolupráci Laboratória environmentálnej a potravinovej mikrobiológie so skupinou Ing. Tomáša Mackuľaka, PhD. z Ústavu chemického a environmentálneho inžinierstva z FCHTP STU Bratislava na zefektívnení biologickej degradácie liečiv (karbamazepín, diklofenak a kofeín) nachádzajúcich sa v odpadových vodách a tiež na dezinfekcii odpadových vôd.

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
RNDr. Imrich Barák, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	predseda
	SFX Management Board at European XFEL (X-ray Free Electron Laser) in Hamburg, Germany	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore biochémia	člen
	Komisia pre koordináciu aktivít SR v projektoch ESFRI orientovaných na materiály, fyzikálne vedy, s aplikačným potenciálom v biologických a medicínskych vedách, v chemických vedách a IT	člen
	XBI “Management Board at European XFEL (X-ray Free Electron Laser)” v Hamburgu, Nemecko	člen
RNDr. Peter Ferianc, CSc.	Zbor expertov pre biologickú bezpečnosť Ministerstva životného prostredia SR	člen
Prof. Ing. Štefan Janeček, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	predseda
RNDr. Ján Kormanec, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore virológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	člen
Ing. Juraj Majtán, DrSc.	Odborná pracovná skupina pre farmakoekonomiku, klinické výstupy a hodnotenie zdravotníckych technológií MZ SR	člen
RNDr. Vladimír Pevala, PhD.	Komisia pre biologickú bezpečnosť	člen

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

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

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

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	4	tlač	20	TV	4
rozhlas	3	internet	7	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
1. konferencia StruBioMol - Štrukturálna biológia pre medicínu a biotechnológiu	medzinárodná	Ústav molekulárnej biológie SAV	06.12.-06.12.2021	133

9.3. Účasť na výstavách

Názov výstavy: Týždeň vedy a techniky na Slovensku 2021 - online Deň otvorených dverí ÚMB SAV
Miesto konania: ÚMB SAV, Bratislava
Dátum: 9.11.2021
Zhodnotenie účasti: V rámci Týždňa vedy a techniky na Slovensku 2021, usporiadalo naše pracovisko online Deň otvorených dverí, ktorého súčasťou boli tri prednášky (Mgr. R. Javorová - „Streptomycéty najvýznamnejší producenti antibiotík“, Mgr. D. Hadžega - „Ako čítať kód života“, Mgr. V. Bauerová, PhD. - „Majú bielkoviny svoju tvár?“). Na podujatie sa prihlásilo 8 tried zo 7 stredných škôl zo Slovenska. Prednášky boli po skončení podujatia hodnotené veľmi pozitívne zo strany študentov aj učitelov.

Názov výstavy: Noc výskumníkov 2021 – Spoznaj svoju školu – Spoznaj svojho vedca
Miesto konania: ZŠ Morovnianska cesta, Handlová
Dátum: 24.9.2021
Zhodnotenie účasti: Naše pracovisko sa na festivale vedy Noc výskumníkov 2021 zapojilo do programu Spoznaj svoju školu – Spoznaj svojho vedca. Mgr. Ráchel Javorová priblížila študentom deviateho ročníka Základnej školy - Morovnianska cesta v Handlovej výskum antibiotík a baktérií, ktorému sa venujeme na Oddelení genomiky a biotechnológií na našom ústave. Od základných pojmov ako sú mikroorganizmy až po názorné ukážky pôdnych baktérií streptomycét (významných producentov väčšiny pigmentov a antibiotík). Praktické ukážky zahŕňali napr. extrakciu modrého pigmentu indigoidín z buniek *Streptomyces lavendulae* a kreslenie na Petriho misky s tuhým živným médiom pôdnymi baktériami. Podujatie sa stretlo s veľmi pozitívnym ohlasom ako zo strany študentov, tak aj učiteľov, ktorí prejavili záujem o takéto prezentácie aj do nasledujúcich školských rokov.

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Beke Gábor	0	0	1
Kľučár Ľuboš	0	0	1
Spolu	0	0	2

9.5. Členstvo v redakčných radách časopisov

RNDr. Imrich Barák, DrSc.

Frontiers in Microbiology (funkcia: Associate Editor)
Microorganisms (funkcia: Editor of speciall issue)

Prof. Ing. Štefan Janeček, DrSc.

3Biotech (funkcia: Associate Editor)
Amylase (funkcia: Editor-in-Chief)
Biologia (funkcia: Managing Editor, section Cellular and Molecular Biology)
Enzyme and Microbial Technology (funkcia: Editorial Board member)
Journal of Applied Glycoscience (funkcia: Editorial Board member)
Molecules, section Bioorganic Chemistry (funkcia: Editorial Board member)
Nova Biotechnologica et Chimica (funkcia: Editorial Board member)

RNDr. František Jurský, CSc.

Frontiers in Molecular Neuroscience (funkcia: Review editor)

Mgr. Ľuboš Kľučár, PhD.

Embnet.journal (funkcia: člen Executive Editorial Board)

RNDr. Ján Kormanec, DrSc.

International Journal of Molecular Sciences (funkcia: member of Editorial board)

Ing. Juraj Majtán, DrSc.

Asian Pacific Journal of Tropical Biomedicine (funkcia: člen edičnej rady)
Evidence-Based Complementary and Alternative Medicine (funkcia: člen edičnej rady)
Forntiers in Microbiology (section: Food Microbiology) (funkcia: člen edičnej rady)
Heliyon (funkcia: člen edičnej rady)
Molecules (funkcia: člen edičnej rady)
Scientific Reports (funkcia: člen edičnej rady)
Včelár (funkcia: člen radakčnej rady)

RNDr. Marcel Zámocký, DrSc.

Antioxidants Basel (MDPI) (funkcia: topic editor)
Biology Basel (MDPI) (funkcia: guest editor)
The Open Biochemistry Journal (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Vladena Bauerová, PhD.

Slovenská spoločnosť pre molekulovú biológiu (funkcia: člen)

RNDr. Gabriela Bukovská, CSc.

Československá spoločnosť mikrobiologická (funkcia: člen kontrolnej komisie)

RNDr. Ján Kormanec, DrSc.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen výboru)

Ing. Juraj Majtán, DrSc.

Československá spoločnosť mikrobiologická (funkcia: člen)
Slovenská apiterapeutická spoločnosť (funkcia: člen výboru spoločnosti)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		4577
z toho	knihy a zviazané periodiká	4557
	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		
z toho zahraničné periodiká		0
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

*Výraz **„v tom“** označuje úplné (vyčerpávajúce) 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

Výpožičky spolu (riadok 1)		0
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		0
MVS z iných knižníc		0
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)	0

10.4. Iné údaje

Tabuľka 10d Iné údaje

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

10.5. Iné informácie o knižničnej činnosti

Od roku 2009 je výpožičná služba knižnice pozastavená.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

Mgr. Ľuboš Kľučár, PhD.

- člen
- predseda II. komory

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo v komisiách SAV

RNDr. Imrich Barák, DrSc.

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

RNDr. Peter Ferianc, CSc.

- Komisia SAV pre životné prostredie a klimatickú zmenu (Člen)

Mgr. Ľuboš Kľučár, PhD.

- Akreditačná komisia SAV (člen)
- Knižničná rada SAV (člen)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre zahraničné styky (člen)

RNDr. Ján Kormanec, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

RNDr. Katarína Muchová, CSc.

- Komisia SAV pre životné prostredie a klimatickú zmenu (tajomníčka)

Mgr. Renáta Nováková, CSc.

- Etická komisia SAV (člen)

11.4. Členstvo v orgánoch VEGA

RNDr. Imrich Barák, DrSc.

- Komisia VEGA č. 4 pre biologické vedy (predseda)

Ing. Juraj Majtán, DrSc.

- Komisia VEGA č. 4 (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2021 v €)

Typ organizácie (RO,PO)		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	2 174 804	1 030 247	1 122 752	21 805	47
z toho: mzdy (610)	1 098 905	508 351	579 301	11 253	46
vedecká výchova štipendiá (640)	132 195	132 195			100
poistné a príspevok do poisťovní (620)	375 863	171 102	200 945	3 816	46
tovary a služby (630)	406 838	195 044	205 057	6 737	48
transfery partnerom projektov (640)			137 449		
2. Kapitálové výdavky	7 299	2 243	5 056		31
z toho: obstarávanie kapitálových aktív	7 299	2 243	5 056		31
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2021 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**
1. kapitola SAV (111)	1 032 490	2 243	508 351	171 102	
z toho: VEGA	121 026				
MVTS výskumné projekty	41 996			1 550	
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	7 050			716	
Vedecká výchova	132 195				

(štipendiá)					
OTAS (630)	27 238				
2. ŠF EÚ vr. fin. zo ŠR	743 753	5 056	509 670	177 164	51 863
3. medzinárodné grantové projekty	14 594		9 593	3 235	
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	351 133		69 631	23 782	85 586
z toho: APVV	351 133		69 631	23 782	85 586
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	20 213		1 660	580	
z toho: príjmy z prenájmu	6 356				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	11 111		1 660	580	

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

14.1. Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia

Naše pracovisko dodržiava a uplatňuje princípy rodovej rovnosti v organizácii.
Naši zamestnanci sa zapojili do spolupráce a súčinnosti pri aktivitách projektu ATHENA v rámci rodového auditu. Konkrétne, realizácie dotazníkového prieskumu so zameraním sa na vzťahy medzi mužmi a ženami vo vede a na pracovisku.
V nasledujúcom období vedenie ústavu bude viac zamerané na zisťovanie, či prijaté opatrenia a aktivity vedenia ústavu nebudú mať negatívny dopad na rodovú rovnosť.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	12	8	4	2	1	1
2. Projekty APVV	9	7	2	10	9	1
3. Projekty EŠIF	0	0	0	0	0	0
4. Projekty SASPRO, MoRePro	0	0	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	0	0	0	0

Tabuľka 14b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	0	0	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	0	1	0	0	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	1	1	0	1	1	0
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	0	0	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

14.3. Výskum zameraný na rodovú problematiku

Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe C.

Naša organizácia zatiaľ nie je zapojená do projektov orientovaných na rodovú problematiku.

15. Iné významné činnosti organizácie SAV

ÚMB SAV vykonáva od roku 1999 s mandátom MŠVVaŠ SR funkciu Národného uzla organizácie EMBnet (The Global Bioinformatics Network). Táto organizácia vznikla v roku 1988 za účelom spojiť jednotlivé európske pracoviská, ktoré sa zaoberajú využitím bioinformatiky a *in silico* analýzy. Hlavnou náplňou činnosti Národného uzla je administrácia rozsiahleho biologického výpočtového systému, školenia a kurzy zamerané na ich využitie, ako aj spolupráca s inými vedeckými projektmi v oblasti bioinformatiky. Národný uzol je jediným slovenským centrom, ktoré udržiava a poskytuje analyzačné balíky Galaxy a Chipster určené na analýzu high-throughput dát (DNA čipy, NGS) pre potreby národnej vedeckej komunity. Naše pracovisko sa priamo podieľa aj na tvorbe medzinárodného peer-review časopisu EMBnet.journal (journal.embnet.org), zameraného hlavne na praktickú bioinformatiku. V tomto roku bolo aj jedným z hlavných organizátorov spoločnej videokonferenčnej konferencie organizácií *EMBnet a Goblet - GOBLET & EMBnet AGM 202: Bioinformatics Education & Training from 2012 and beyond*.

ÚMB SAV je sídlom redakcie medzinárodného časopisu Biológia (Botany, Zoology and Cellular and Molecular Biology) evidovaného v Current Contens a Web of Science pričom došlo významnému zlepšeniu IF z IF 2019: 0,811 na IF 2020: 1,350, časopis je od roku 2018 pod vydavateľstvom Springer.

Ústav molekulárnej biológie sa aktívne zúčastňuje činností iniciatívy „Veda chce žiť!" (www.vedachcezit.sk), ktorú založili vedeckí pracovníci v roku 2014. Táto nezávislá iniciatíva vznikla s cieľom upozorňovať na problémy vedy, výskumu a vzdelávania na Slovensku a podporovať pozitívne zmeny v týchto oblastiach. K iniciatíve sa rýchlo pripojila veľká časť vedeckej komunity na SAV, ale aj zástupcovia univerzít a širokej verejnosti. V roku 2021 sa členovia iniciatívy zúčastnili v priebehu mesiaca september ako pozorovatelia pri oponentúrach projektov z tzv. Stimuly na podporu vedy a výskumu. I. Barák bol členom poradnej skupiny Ľudovíta Paulisa, štátneho tajomníka MŠVVŠ na vypracovanie materiálu: Program reforiem v oblasti vedy a výskumu na podklade programového vyhlásenia vlády.

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2021

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

16.1.2. Iné domáce ocenenia

Barák Imrich
ESET Science Award
Oceňovateľ: ESET
Opis: Finalista ESET Science Award, Výnimočná osobnosť slovenskej vedy

Barák Imrich
Vedec roka SR
Oceňovateľ: CVTI-SAV-ZSVS
Opis: V kategórií Vedec rokaZa unikátne výsledky v oblasti fyziológie baktérií a objav vzniku bakteriálnych nanotrubíc ako prejav zomierajúcej bunky.

16.2. Medzinárodné ocenenia

Majtán Juraj
World Expert in Honey Research
Oceňovateľ: Expertscape

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

V roku 2021 nebola prijatá žiadna žiadosť o prístup k informáciám.

18. Problémy a podnety pre činnosť SAV

Hoci sa v roku 2020 podarilo ústavu získať z prostriedkov INTERREG významné prostriedky na zakúpenie niekoľkých finančne náročných prístrojov a tak čiastočne zlepšiť infraštruktúru ústavu, domnievame sa, že nemožnosť získania kapitálových prostriedkov mimo štrukturálnych fondov významne zasahuje naše pracovisko, pretože jeho vedecké zameranie kladie vysoké nároky na vybavenie laboratórií. Nedostatok kapitálových prostriedkov znemožňuje obnovu základného technického vybavenia a rekonštrukcie laboratórií. Domnievame sa, že s podobnými problémami sa stretávajú aj iné ústavy, ktoré sídlia v starších budovách a potrebujú zrekonštruovať a zmodernizovať priestory a zariadenia pracoviska.

ÚMB SAV opäť dáva podnet na zváženie, aby P SAV spolu s vedením jednotlivých ústavov hľadalo riešenie pre efektívnejšie využívanie špičkových prístrojov, ktoré ústavy či centrá získali zo štrukturálnych fondov a ktoré by mali záujem využívať aj iní pracovníci, všeobecná dostupnosť a prípadne odborný servis tu neexistuje. Doterajší systém, založený na zverejnení informácií o prístrojoch na webových stránkach ústavov nie je úplne vyhovujúci, údaje sú často neúplné, bez potrebných detailov. Koordinácia využívania vysoko sofistikovaných, špičkových prístrojov by určite viedla k zlepšeniu spolupráce medzi jednotlivými ústavmi, ich vedeckých výstupov a hodnotenia SAV ako vedeckej inštitúcie.

Ocenili by sme aj iniciatívu predsedníctva pri podpore zaviesť v rámci APVV projektov možnosť získavania finančných prostriedkov na zamestnanie šikovných mladých vedeckých pracovníkov.

V rámci revitalizácie a rekonštrukcie areálu SAV bolo navrhované zriadenie predškolského zariadenia. Pretože mladí vedeckí pracovníci majú často problém s umiestnením detí do „štátnych“ zariadení, ktoré majú často nedostatok miest a súkromné škôlky sú finančne veľmi nákladné, ocenili by sme, keby sa P SAV hľadalo možnosti už v súčasnej dobe, ako zriadiť predškolské zariadenie v areáli SAV.

Podobne pri diskusii o budúcnosti areálu SAV sa navrhovalo aj vytvorenie priestorov pre športové aktivity. Vzhľadom k sedavej činnosti väčšiny zamestnancov SAV by sme uvítali, keby sa hľadali priestory pre zriadenie fitnescentra, prípadne inú športovú činnosť, výborné by bolo umožniť vytvorenie fyzioterapeutického zariadenia (alebo aspoň zabezpečiť prítomnosť fyzioterapeuta napr. dvakrát do týždna), ktorý by mohli zamestnanci SAV navštevovať.

V areáli medzi Chemickým ústavom a Ústavom molekulárnej biológie (ponad tunel Sitina) je len cestná komunikácia pre vozidlá, čo nie je bezpečné pre chodcov (pracovníci SAV, študenti...). Bolo by dobré zvážiť vybudovanie chodníka popri tejto ceste, obzvlášť pokiaľ by došlo k rozvoju infraštruktúry v tejto oblasti. Priestorové možnosti na vybudovanie chodníka aj infraštruktúry tam sú.

Správu o činnosti organizácie SAV spracoval(i):

Mgr. Ľuboš Kľučár, PhD., 02 5930 7413

Schválila vedecká rada organizácie SAV dňa 27.1.2022

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
Ing. Eva Kutejová, DrSc.	RNDr. Imrich Barák, DrSc.

Eva Kutejová

Digitálne podpísal Eva Kutejová
Dátum: 2022.01.31 10:21:59 +01'00'

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2021

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Imrich Barák, DrSc.	100	1.00
2.	Prof. Ing. Štefan Janeček, DrSc.	100	1.00
3.	RNDr. Ján Kormanec, DrSc.	100	1.00
4.	Ing. Eva Kutejová, DrSc.	100	1.00
5.	Ing. Juraj Majtán, DrSc.	100	1.00
6.	Dr. Domenico Pangallo, DrSc.	100	1.00
7.	RNDr. Marcel Zámocký, DrSc.	50	0.75
Samostatní vedeckí pracovníci			
1.	Mgr. Martina Baliová, PhD.	100	1.00
2.	Jacob Bauer, PhD.	100	1.00
3.	Mgr. Vladena Bauerová, PhD.	100	1.00
4.	RNDr. Mária Bučková, PhD.	100	1.00
5.	RNDr. Gabriela Bukovská, CSc.	100	1.00
6.	RNDr. Jarmila Farkašovská, CSc.	100	1.00
7.	RNDr. Marian Farkašovský, CSc.	100	1.00
8.	RNDr. Peter Ferianc, CSc.	100	1.00
9.	RNDr. Nora Halgašová, PhD.	100	1.00
10.	RNDr. Dagmar Homerová, CSc.	100	1.00
11.	RNDr. Katarína Chovanová, PhD.	100	1.00
12.	RNDr. František Jurský, CSc.	100	1.00
13.	Mgr. Ľuboš Kľučár, PhD.	100	1.00
14.	Ing. Daniela Krajčíková, CSc.	100	1.00
15.	Mgr. Lucia Kraková, PhD.	100	0.50
16.	Mgr. Vladimír Leksa, PhD.	100	1.00
17.	RNDr. Katarína Muchová, CSc.	100	1.00
18.	Mgr. Renáta Nováková, CSc.	100	1.00
19.	Ing. Gabriela Ondrovičová, PhD.	100	1.00
20.	RNDr. Vladimír Pevala, PhD.	100	1.00

21.	Mgr. Andrea Puškárová, PhD.	100	1.00
22.	RNDr. Ľubica Urbániková, CSc.	100	1.00
Vedeckí pracovníci			
1.	Mgr. Gábor Beke, PhD.	100	1.00
2.	RNDr. Lucia Bocánová, PhD.	100	1.00
3.	Mgr. Marcela Bučeková, PhD.	100	1.00
4.	Mgr. Marek Gabriško, PhD.	100	1.00
5.	Mgr. Zuzana Chromiková, PhD.	100	1.00
6.	RNDr. Mária Kajsiková, PhD.	100	1.00
7.	RNDr. Romana Kalianková Chovanová, PhD.	100	1.00
8.	Mgr. Zuzana Kisová, PhD.	100	1.00
9.	RNDr. Andrea Kuchtová, PhD.	50	0.00
10.	Mgr. Nina Kunová, PhD.	100	1.00
11.	Mgr. Naďa Labajová, PhD.	100	1.00
12.	Mgr. Matej Planý, PhD.	100	1.00
13.	Mgr. Matej Stano, PhD.	10	0.10
14.	Mgr. Barbora Stojkovičová, PhD.	100	1.00
15.	RNDr. Zuzana Šramková, PhD.	50	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Veronika Bellová	100	0.58
2.	RNDr. Ľubomíra Fecková	100	1.00
3.	Ing. Jana Godočíková	100	1.00
4.	Ing. Janka Harichová	100	1.00
5.	Mgr. Filip Mareček	25	0.25
6.	Mgr. Lucia Martináková	100	1.00
7.	Ing. Bronislava Řežuchová	100	1.00
8.	RNDr. Beatrica Ševčíková	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Alžbeta Janečková	50	0.50
2.	Ing. Dana Rybárová	100	1.00
3.	Ing. Anna Varcholová	100	1.00
Odborní pracovníci ÚSV			
1.	Renáta Knirschová	100	1.00
2.	Katarína Kválová	100	1.00
3.	Erika Poleková	100	1.00

4.	Katarína Semešová Pírová	100	1.00
Ostatní pracovníci			
1.	Miroslav Buran	70	0.70
2.	Valéria Csonková	100	1.00
3.	Andrea Dávidová	100	1.00
4.	Martin Goliaš	130	1.30
5.	Marieta Hronská	100	1.00
6.	Dáša Jašková	100	1.00
7.	Karol Ondrovič	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedeckí pracovníci			
1.	RNDr. Zuzana Šramková, PhD.	31.12.2021	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Zuzana Janíčková	31.8.2021	0.17
2.	Mgr. Veronika Kotrasová	31.3.2021	0.22
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Barbora Rajčeková	31.10.2021	0.11
2.	Mgr. Simona Štrbová	14.4.2021	0.29
Ostatní pracovníci			
1.	Emília Chovancová	31.5.2021	0.42

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Dominika Csölleiová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
2.	Mgr. Dominik Hadžega	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
3.	Mgr. Henrieta Havalová	Prírodovedecká fakulta UK	1420 chémia
4.	Mgr. Iveta Jahodová	Prírodovedecká fakulta UK	1420 chémia
5.	Mgr. Ráchel Javorová	Prírodovedecká fakulta UK	1536 biológia
6.	Ing. Evelína Kalocsaiová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
7.	Mgr. Kristina Papayová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
8.	MSc. Jelena Pavlović	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
9.	Mgr. Adam Poláček	Prírodovedecká fakulta UK	1420 chémia

10.	Mgr. Andrej Poljovka	Prírodovedecká fakulta UK	1536 biológia
11.	Mgr. Romana Praženicová	Prírodovedecká fakulta UK	1420 chémia
12.	Mgr. Magdaléna Rusková	Prírodovedecká fakulta UK	1536 biológia
13.	Mgr. Monika Zámocká	Prírodovedecká fakulta UK	1536 biológia
14.	Mgr. Silvia Žarnovičanová	Prírodovedecká fakulta UK	1536 biológia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Mgr. Veronika Bugárová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
2.	Mgr. Matúš Hajduk	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: INTERREG

1.) Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií *(Building learning and research capacities in the structure and functional analysis of biomolecules for the needs of biomedicine and biotechnology)*

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.5.2019 / 30.4.2022
Evidenčné číslo projektu:	305011X666
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Slovensko: 1
Čerpané financie:	Interreg Slovakia-Austria, European Regional Development Fund: 51863 €

Dosiahnuté výsledky:
V rámci projektu StruBioMol (Interreg V-A Slovakia-Austria) boli organizované tri prednášky pre výskumných pracovníkov, doktorandov a študentov VŠ z univerzít cezhraničného regiónu, ako aj ďalších záujemcov z praxe, na ktorých sa zúčastnil veľký počet záujemcov z Viedne a Bratislavského regiónu. Prednášky sa konali: 14.01.2021 (Dr. Jacob BAUER - Analýza v normálnom režime a jej aplikácia na štúdie štruktúry proteínov), 04.05.2021 (Prof. Tony Wilkinson - Systémy posttranslačných modifikácií ako ciele inhibície v liečbe Leishmaniózy) a 23. novembra 2021 (Dr. Dominika Fričová - What can we learn from Parkinson's disease-related mutations?). http://www.imb.savba.sk/strubiomol/index.php?id=Events&lang=sk
Ďalej sme zorganizovali konferenciu „1st StruBioMol Conference - Structural biology for medicine and biotechnology“. Na konferencii prednášali špičkoví vedeckí pracovníci z viacerých etablovaných európskych inštitúcií vrátane Francis Crick Institute, European Synchrotron Radiation Facility (ESRF), Institute of Biophysics Czech Academy of Sciences, Department of Biosciences University of Milano, National Institute of Chemistry Slovenia, Technical University of Denmark, Institute of Organic Chemistry and Biochemistry The Czech Academy of Sciences, DESY Hamburg a Department of Structural and Computational Biology MPL University of Vienna.
Koncom decembra 2021 vyšiel druhý diel monografie Proteíny – štruktúra a funkcia. Podobne ako prvý diel aj druhý diel vznikol na základe spolupráce Ústavu molekulárnej biológie SAV a Katedry mikrobiológie a virológie Prírodovedeckej fakulty UK Bratislava. Monografia je určená predovšetkým pre študentov bakalárskeho, magisterského a doktorandského štúdia, súčasne však všetkým, ktorí sa chcú dozvedieť viac o štruktúre a funkcii bielkovín.

Programy: Bilaterálne - iné

2.) Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémií *(Water/Wastewater epidemiology: Development of robust and reliable molecular detection systems for surveillance of disease outbreaks)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	MOST 108-2221-E-006 -160 -MY3
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Taiwan: 2
Čerpané financie:	SAS-MOST Joint Research Projects: 24996 €

Dosiahnuté výsledky:
V tomto roku sme optimalizovali rôzne metódy real-time PCR s cieľom odhaliť SARS-CoV-2 vo vzorkách odpadových vôd. Bola vyvinutá aj vysokovýkonná sekvenčná stratégia založená na platforme MinION na identifikáciu komunity rezistentných mikroorganizmov vo vzorkách odpadových vôd.

3.) Trvalo udržateľná regenerácia vody založená na filtrácii keramickými membránami
(Sustainable Water Reclamation Based on Ceramic Membrane Filtration)

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.4.2020 / 31.3.2023
Evidenčné číslo projektu:	EIG_JC2019-058
Organizácia je koordinátorom projektu:	nie
Koordinátor:	TUBITAK, Marmara Research Center (TUBITAK MRC)
Počet spoluriešiteľských inštitúcií:	6 - Japonsko: 2, Slovensko: 2, Turecko: 2
Čerpané financie:	EIG Concert Japan: 17000 €

Dosiahnuté výsledky:
V tomto roku sme optimalizovali rôzne metódy real-time PCR s cieľom odhaliť gén *intl1* (prítomný v mnohých baktériách odolných voči antibiotikám) vo vzorkách životného prostredia: vode, odpadovej vode, plastoch a čiastočkách mikroplastov. Bola vyvinutá vysokovýkonná sekvenčná stratégia založená na platforme MinION na identifikáciu komunity rezistentných mikroorganizmov v rôznych vzorkách súvisiacich s vodou.

Domáce projekty

Programy: VEGA

1.) Regulácia interakčnej špecificity multi-PDZ proteínov

Zodpovedný riešiteľ:	Martina Baliová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0127/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3673 €

Dosiahnuté výsledky:
Pomocou detailnej bodovej mutagenézy sa nám podarilo zistiť, že PDZ motívy niektorých transportérov neurotransmiterov sú schopné okrem klasického interakčného módu interagovať aj atypickým spôsobom. Experimentálne výsledky sme korelovali s dobrou zhodou aj s navrhnutými in silico PDB modelmi.

2.) Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. *(How the cell finds the asymetric site of septation during sporulation of Bacillus subtilis)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0001/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 14685 €

Dosiahnuté výsledky:
Delenie buniek *B. subtilis* a jeho regulácia sa študujú už desaťročia. Aj keď mnohé štúdie odpovedali na mnoho otázok, stále ešte úplne nechápeme ako bunka presne rozpoznáva svoje miesto v strede bunky počas vegetatívneho rastu. Ešte menej sa vie o tom, ako sa asymetrické delenie reguluje počas sporulácie. Zdá sa, že existencia asymetrického delenia má kľúčový význam pri nastavovaní asymetrickej génovej expresie potrebnej na umožnenie diferenciácie buniek *B. subtilis*. Aby bolo možné rozlíšiť, ako je rozpoznávané asymetrické miesto septácie a ako sa tvorí sporulačné septum, bude potrebné objasniť, ako sa tvorí veľký komplex deliacich proteínov a ako interaguje s proteínmy biosyntézy peptidoglykánov. Na dosiahnutie tohto cieľa projektu, v prvom roku sme pripravili kmene na stanovenie funkcie EzrA, GpsB, RefZ, SpoIIE a Min počas sporulácie. Ako najdôležitejšie bola príprava plazmidových konštruktov na štúdium lokalizácie deliacich proteínov počas sporulácie - fúzie génov s Ypet, CyPet, neongreen a scarlet fluorescenčnými fúziami.

Publikácie:

1. D. Krajcikova, V. Bugarova and I. Barak (2021) YncD, Bacillus subtilis spore coat alanine racemase and its role in spore formation and germination. Microorganisms 9, 285. https://doi.org/10.3390/microorganisms9020285 (IF 4.15) (Q2 JCR2019; Qx SJR2019)

2. N. Labajova, N. Baranova, M. Jurásek, R. Vácha, M. Loose and I. Barak (2021) DivIVA binds to cardiolipin-containing lipid bilayers. Int. J. Mol. Sci., 22, 8350. https://doi.org/10.3390/ijms22158350 (IF 5.92) (Q1 JCR2020; Q1 SJR2020)

3. Barak I. (2021) Special Issue “Bacillus subtilis as a Model Organism to Study Basic Cell Processes”. Microorganisms 9, 2459 (IF 4.15) (Q2 JCR2019; Qx SJR2019)

3.) Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2 *(Study of the effect of cardiac arrhythmia-associated mutations on the structure and function of the human ryanodine receptor 2)*

Zodpovedný riešiteľ:	Vladena Bauerová
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0131/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7283 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme pokračovali v "in silico" analýze vybraných mutácií N-terminálnej oblasti ľudského ryanodínového receptora 2. Zamerali sme sa na oblasť svoriek ľudského srdcového ryanodínového receptora 2 (zvyšky ~ 850-1100), ktorá interaguje s viacerými bielkovinami, modulujúcimi cytoplayamtickú hladinu Ca2+ v myocytoch. Exprimovali sme oblasť zahŕňajúcu RYR1a2 doménu (Repeat1-2) a optimalizovali purifikáciu týchto fragmentov. Poznatky a skúsenosti získané pri "in silico" štúdiu ryanodínového receptora 2, predovšetkým aplikácia molekulovej dynamiky a tzv. „normal mode“ analýzy, nám umožnila lepšie porozumenie procesov zbaľovania a rozbaľovania viacerých bielkovín.

Výsledky sme publikovali v renomovanom vedeckom časopise Nanomaterials a kapitole vo vedeckej monografii vydanej zahraničným vydavateľom (Intech, London, UK). Okrem toho sme v spolupráci s Katedrou mikrobiológie a virológie PriFUK vydali druhý diel vedeckej monografie s názvom Proteíny - Štruktúra a Funkcia, podnadpis Funkcia Proteínov.

Zoznam publikácií:
1. Jacob Bauer, Gabriel Žoldák. Interpretation of Single-Molecule Force Experiments on Proteins Using Normal Mode Analysis. Nanomaterials 2021, 11(11), 2795. https://doi.org/10.3390/nano11112795

2. Jacob A. Bauer, Vladena Bauerová-Hlinková. Normal Mode Analysis: A Tool for Better Understanding Protein Flexibility and Dynamics with Application to Homology Models. In: Homology Molecular Modeling - Perspectives and Applications. IntechOpen, London, UK. 2021, p. 13-30 ISBN: 978-1-83962-805-4; on-line ISBN: 978-1-83962-806-1. DOI: 10.5772/intechopen.94139

3. Peter Kabát, Vladena Bauerová-Hlinková, Jacob Bauer. PROTEÍNY - ŠTRUKTÚRA A FUNKCIA; 2. diel Funkcia proteínov. Vydavateľstvo UK, Bratislava, 2021, 106 strán, ISBN: 978-80-223-5094-5. https://www.sav.sk/?lang=sk&doc=user-org-user&user_no=721&action=publications

4.) Kombinácia nanočastíc a esenciálnych olejov na zmiernenie biologického poškodenia rôznych typov stavebných materiálov *(Combination of nanoparticles and essential oils for mitigating the biodeterioration on various types of building materials)*

Zodpovedný riešiteľ:	Monika Benkovičová
Zodpovedný riešiteľ v organizácii SAV:	Mária Bučková
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	2/0059/19
Organizácia je	nie

koordinátorom projektu:	
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3900 €

Dosiahnuté výsledky:
Éterické oleje (EO) chemotypu karvakrol *Thymus capitatus* (Th) a chemotypu tymol a karvakrol *Origanum vulgare* (Or) boli zapuzdrené v biokompatibilných poly(ε-kaprolaktónových) nanokapsulách (NC). Tieto nanosystémy vykazovali antibakteriálne, antifungálne a antibiofilmové aktivity proti *Staphylococcus aureus, Escherichia coli* a *Candida albicans*. Th-NC a Or-NC boli účinnejšie proti všetkým testovaným kmeňom ako čisté EO a zároveň neboli cytotoxické na HaCaT (T0020001) bunkovú líniu ľudských keratinocytov.

Publications:
Kapustová, M., Granata, G., Napoli, E., Puškárová, A., Bučková, M., Pangallo, D., & Geraci, C. (2021). Nanoencapsulated essential oils with enhanced antifungal activity for potential application on agri-food, material and environmental fields. Antibiotics, 10(1), 31.
Kapustová, M., Puškárová, A., Bučková, M., Granata, G., Napoli, E., Annušová, A., Mesárošová, M., Kozics, K., Pangallo, D. and Geraci, C., 2021. Biofilm inhibition by biocompatible poly (?-caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. International Journal of Pharmaceutics, 606, 120846.

5.) Štúdium replikačných proteínov modelových bakteriofágov v systéme bakteriofág – hostiteľ *(The study of model bacteriophages' replication proteins in system bacteriophage - host)*

Zodpovedný riešiteľ:	Gabriela Bukovská
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0139/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6590 €

Dosiahnuté výsledky:
V poslednom roku riešenia projektu VEGA sme pokračovali v charakterizácii replikačných proteínov bakteriofága BFK20 a bakteriofága phiBP. Replikačný proteín gp43 bakteriofága BFK20 je multifunkčný proteín s primázovou-polymerázovou a helikázovou doménou. Helikázová doména s konzervovanými motívmi replikatívnych helikáz z rodiny SF4 sa nachádza v C-koncovej oblasti proteínu. Delečné mutanty obsahovali helikázové jadro so všetkými konzervovanými motívmi a priľahlé oblasti rôznej dĺžky. Charakterizovali sme a porovnali vlastnosti jednotlivých mutantov – ATPázovú a helikázovú aktivitu, oligomérny stav a väzbu na DNA. Pripravili sme publikáciu o delečných mutantoch proteínu gp43, ktorá bola po revízii prijatá na publikovanie.
Pokračovali sme v práci s bodovými mutantami proteínu gp41 - helikázy z rodiny SF2 fága BFK20. Začali sme testovať ich ATPázovú aktivitu a väzbu na DNA substrát. Ďalej sme pokračovali v charakterizácii jedného z replikačných proteínov bakteriofága phiBP: organizátora fágového replizómu. Testovali sme oligomérny stav proteínu pomocou kroslinkovania glutaraldehydom, natívnej elektroforézy BN-PAGE a FPLC gélovej filtrácie na kolóne Superdex 200 Increase. Zistili sme, že organizátor replizómu vytvára oligomérny komplex s vyšším počtom podjednotiek, pravdepodobne 6 a 12. Pripravili sme bodový mutant so zámenou aminokyselny K8A (lyzín v

pozícii 8 zamenený za alanín) s cieľom overiť vplyv tejto zámeny na ATPázovú aktivitu proteínu. Pokračovali sme v príprave publikácie o [*Brevibacterium] flavum* CCM 251, priemyselnom producentovi L-lyzínu. Osekvenovali sme genóm *[B.] flavum* CCM 251 pomocou MinION technology (ONT Nanopore). Následne sme s využitím bioinformatických prístupov stanovili základné vlastnosti genómu: 3,362,281 bp, 54.13% G+C, 3,190 génov, 93.3% CDSs. Zistili sme 99,98% homológiu s kmeňmi *[Brevibacterium] flavum* ATCC 15168 (CP011309) a *Corynebacterium glutamicum* BE (CP053188) a 92,18% s *Corynebacterium glutamicum* ATCC 13032. Na základe in silico analýzy sme v *[B.] flavum* CCM 251 detegovali dve kompletné aspartátové biosyntetické dráhy, ktoré sa podieľajú na produkcii L-lyzínu (priamy variant a sukcinylázový variant). Publikácia bola akceptovaná v časopise Biologia.
Výstupy:
1.Halgasova N., Krajcikova D., Kraus D., Bukovska G. The helicase core accessory regions of the phage BFK20 DnaB-like helicase gp43 significantly affect its activity, oligomeric state and DNA binding properties. (2021) Virology 558: 96-109. https://doi.org/10.1016/j.virol.2021.02.016
2.Nora Halgasova and Gabriela Bukovska: Three charged amino acid residues at the extreme C-terminus of the BFK20 gp41 helicase play a role in the ATPase activity of the protein. Poster - Abstract ID: 121, page 22 In: Book of Abstracts: Helicases and Nucleic Acid-Based Machines:Structure, Mechanism and Regulation and Roles in Human Disease. Online conference 6. – 9. JULY 2021, France
3.Maria KAJSIKOVA, Michal KAJSIK, Hana DRAHOVSKA and Gabriela BUKOVSKA: Complete genome sequence of the industrial l-lysine production strain [Brevibacterium] flavum CCM 251. Biologia", Section Cellular and Molecular Biology. Accepted.

6.) Skladanie septínového komplexu do štruktúr vyššieho poriadku. *(Assembly of Septin Complex to Higher Order Structures.)*

Zodpovedný riešiteľ:	Marian Farkašovský
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0003/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5528 €

Dosiahnuté výsledky:
10-30 % septínov v kvasinkách je počas mitózy sumoylovaných. Úloha sumoylovaných septínov je neznáma. Prvým krokom pre pochopenie úlohy tejto posttranslačnčj modifikácie je identifikácia proteínov, ktoré špecificky interagujú so sumoylovanými septínmi. Kvasinkové septíny (Cdc3 - Cdc10 - Cdc11 - Cdc12) exprimované v baktériach boli sumoylované in vitro a naviazané na magnetické guličky (kraličie IgG) cez TAP tag. Guličky s naviazanými septínmi boli inkubované s bunkovým extraktom z kvasiniek. Guličky boli následne premyté a septíny s interagujúcimi proteínmi eluované. Paralelne sme uskutočnili tento experiment s nemodifikovanými septínmi. Vzorky sa potom naniesli polyakrylamidový gél a nechali vbehnúť do gélu. Gél bol ofarbený s koloidnou Coomassie, proteínove pásiky vyrezané a uskutočnené štiepenie trypsínom v géli. Interagujúce proteíny boli identifikované pomocou hmotnostnej spektrometrie. Slx5-Slx8, proteínový komplex sprostredkujúci ubiquitináciu sumoylovaných proteínov (STUbL), je jeden príklad z identifikovaných proteínov, ktoré špecificky interagovali so sumoylovanými septínmi. Táto interakcia bola už potvrdená pomocou pull-down experimentu. Predpokladáme, že sumoylácia

je potrebná pre proteolytickú degradáciu septínov. Ďalšie funkcie sumoylácie septínov sú predmetom budúceho skúmania.

7.) Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...? *(Amylolytic enzymes – thousands of sequences, hundreds of structures, dozens of specificities – and what about evolution...?)*

Zodpovedný riešiteľ:	Štefan Janeček
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0146/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10551 €

Dosiahnuté výsledky:
(1)
N-terminálna doména prítomná v skupine amylomaltáz z rodiny GH77 reprezentovaných enzýmami z *Escherichia coli* a *Corynebacterium glutamicum* bola na základe detailnej in silico štúdie navrhnutá ako nová možná škrob-viažuca doména.

Marecek F., M?ller M.S., Svensson B. & Janecek S.: A putative novel starch-binding domain revealed by in silico analysis of the N-terminal domain in bacterial amylomaltases from the family GH77. 3 Biotech 2021, 11: 229. doi: 10.1007/s13205-021-02787-8

(2)
Na základe detailnej bioinformatickej analýzy alfa-amyláz z rodiny GH13 klasifikovaných do podrodín 1, 5, 15, 24, 32 a 42 bola zistená výnimočnosť podrodiny GH13_32, ktorá obsahuje fungálne alfa-amylázy ako aj ich bakteriálne homológy aktivované chloridovým aniónom.

Janickova Z. & Janecek S.: In silico analysis of fungal and chloride-dependent alpha-amylases within the family GH13 with identification of possible secondary surface-binding sites. Molecules 2021, 26: 5704. doi: 10.3390/molecules26185704

8.) Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmiterov.

Zodpovedný riešiteľ:	František Jurský
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0126/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3512 €

Dosiahnuté výsledky:
V prvom roku riešenia projektu boli vytvorené viaceré fosfomimetické a neutrálne mutácie v N-terminálnom konci glycínového transportéra GlyT2 a sledovaný ich vplyv na štiepenie proteázou

kalpain. Bol tiež zaznamenaný ich vplyv na mikroštruktúru proteínu detegovaný pomocou jeho dynamickej interakcie s farbičkou Coomassie Briliant Blue.

9.) Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces *(Signal cascades of regulation of sigma factors of RNA polymerase in response to stress, cell and physiological differentiation in soil bacteria of the genus Streptomyces)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0026/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 14719 €

Dosiahnuté výsledky:
Baktérie sú vo svojom prirodzenom prostredí vystavené rôznym stresovým podmienkam, pričom odozva na tieto stresy je regulovaná najmä sigma faktormi RNA polymerázy, ktoré riadia expresiu génov potrebných na prekonanie týchto nepriaznivých podmienok. V jednobunkovom modeli Gram-pozitívnej baktérie *Bacilus subtilis* je to stresový sigma faktor SigB, ktorý je regulovaný fosforylačným mechanizmom prostredníctvom anti-sigma faktora RsbW, anti-anti-sigma faktora RsbV, a dvoch PP2C fosfatáz, RsbP a RsbU.
Gram-pozitívne myceliálne pôdne baktérie rodu Streptomyces podliehajú výnimočnému procesu morfologickej diferenciácie sprevádzanej produkciou mnohých antibiotík. Na rozdiel od *B. subtilis*, modelový organizmus *Streptomyces coelicolor* obsahuje až 9 homológov tohto stresového sigma faktora SigB, 45 homológov anti-sigma faktora RsbW, 17 homológov anti-anti-sigma faktora RsbV a 44 homológov aktivačných PP2C fosfatáz RsbU/RsbP. Tieto homológy (SigB, SigF, SigG, SigH, SigI, SigK, SigL, SigM, SigN) hrajú dominantnú úlohu najmä v kontrole morfologickej diferenciácie a v odozve na osmotický stres. Porovnanie aminokyselinových sekvencií SigB homológov u *S. coelicolor* odhalilo značnú podobnosť medzi týmito sigma faktormi, a to najmä v oblastiach 2.4 a 4.2, ktoré sú dôležité v rozpoznávaní oblastí promótorov -10 a -35. Toto naznačovalo, že by mohli rozpoznávať veľmi podobné promótory. V predchádzajúcicom období sme zaviedli a optimalizovali účinný dvojplazmidový systém v *Escherichia coli* na identifikáciu promótorov špecificky rozpoznávaných príslušnými heterologickými sigma faktormi. Pomocou tohto systému sme identifikovali 24 reprezentatívnych promótorov špecificky rozpoznávaných štyrmi SigB homológmi zo *S. coelicolor* (SigF, SigG, SigH, SigB). Promótory sme overili in vivo v podmienkach osmotického stresu a diferenciácie v divom type *S. coelicolor*, ako aj v mutantoch *sigB, sigH, sigF, sigG* pomocou S1-nukleázového mapovania. Tieto výsledky naznačili, že viaceré promótory boli závislé na viacerých SigB homológoch. Preto sme pomocou dvojplazmidového systému charakterizovali krížové rozpoznávanie týchto 24 identifikovaných promótorov všetkými deviatimi SigB homológmi zo *S. coelicolor*. Promótory boli rozpoznávané variabilne; niektoré iba jedným sigma faktorom, iné dvoma, troma, štyrmi, resp. až piatimi SigB homológmi. Toto potvrdilo, že promótory týchto deviatich homologických sigma faktorov sú krížovo rozpoznávané týmito sigma faktormi, pričom tieto výsledky naznačili niekoľko skupín promótorov rozpoznávaných dominantne stresovými (SigB, SigL), alebo diferenciačnými SigB homológmi (SigF, SigH, SigN). Po sekvenčnej analýze promótorov sme zistili, že všetky promótory boli konzervované v oblastiach -35 a -10 s konsensus sekvenciou GTTTcg N14-15 GGGtAc. Avšak ani detailnou analýzou v súvislosti s ich krížovým rozpoznávaním sme neidentifikovali jednotlivé sekvenčné motívy špecifické pre jednotlivé sigma faktory.

Imunoblotovou analýzou pomocou protilátok voči SigB, SigH a UshX sme dokázali, že SigB je prítomný iba v podmienkach osmotického stresu a SigH a jeho špecifický anti-sigma faktor UshX sú prítomné dominantne pri neskorých štádiách morfologickej diferenciácie. Spolu s fenotypovou analýzou pripravených mutantov v operónoch *sigB* a *sigH* v *S. coelicolor* tieto výsledky naznačujú dominantnú úlohu SigB v reakcii na osmotický stres a dvojitú úlohu SigH v reakcii na osmotický stres a morfologickej diferenciácii a komplexnú reguláciu reakcie na osmotický stres vo vzťahu k morfologickej diferenciácii v *S. coelicolor*.

Publikácie

1, Sevcikova B, Rezuchova D, Mazurakova V, Homerova D, Novakova R, Feckova L, Kormanec J: Cross-recognition of promoters by the nine SigB homologues present in *Streptomyces coelicolor* A3(2). Int. J. Mol. Sci. 22 (2021) 7849.

2, Kormanec J, Rezuchova B, Novakova R: Screening systems for stable markerless genomic deletions/integrations in *Streptomyces* species. Antimicrobial Therapies (Barreiro C, Barredo JL, eds.). Methods in Molecular Biology Vol. 2296, Humana, New York, NY, 2021, pp. 91-141.

10.) Faktory ovplyvňujúce dynamiku mitochondriálneho nukleoidu *(Factors that influence mitochondrial nucleoid dynamics)*

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0075/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13298 €

Dosiahnuté výsledky:

V spolupráci s Chemickým ústavom SAV sme dokončili proteomickú analýzu štandardného kmeňa *Saccharomyces cerevisiae* ako aj kmeňa s deléciou génu kódujúceho mitochondriálnu Lon proteázu a ďalších mutantných kmeňov v Lon proteáze. Študovali sme vplyv delécie a mutácií v Lon proteázy na komplexy dýchacieho reťazca. Výsledky boli súčasťou úspešne obhájenej dizertačnej práce Mgr. Barbory Stojkovičovej (rod. Keresztesovej) s názvom „Ako strata funkcie Lon proteázy ovplyvňuje mitochondrie kvasinky *Saccharomyces cerevisiae*“. Okrem toho sme pripravili vzorky DNA pochádzajúcich z týchto kmeňov pre podrobnú NGS analýzu pomocou Illumina a Nanopore sekvenovania. V súčasnosti čakáme na výsledky, ktoré plánujeme ďalej analyzovať.
V spolupráci so skupinou prof. Ľubomíra Tomášku (Katedra genetiky UK v Bratislave) sme dokončili štúdium vplyvu sukcinylácie na reguláciu funkcie kvasinkového mitochondriálneho nukleoidu. Výsledkom aktívnej spolupráce je publikácia:

Frankovsky, J., Keresztesova, B., Bellova, J., Kunova, N., Canigova, N., Hanakova, K., Bauer, J., Ondrovicova, G., Lukacova, V., Sivakova, B., Zdrahal, Z., Pevala, V., Prochazkova, K., Nosek, J., Kutejova, E., Tomáška Ľ.
The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids. (2021) J. Biol. Chem. 297 (4): 1-16

Obmedzenú možnosť práce v laboratóriu spôsobenú pandémiou COVID-19 sme využili na prípravu

a publikovanie vyžiadaných review článkov:

Kotrasova, V., Keresztesova, B., Ondrovicova, G., Bauer, J., Havalova, H., Pevala, V., Kutejova, E., Kunova, N.
Mitochondrial Kinases and the Role of Mitochondrial Protein Phosphorylation in Health and Disease.
(2021) LIFE-BASEL 11: 82

11.) 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
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0004/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9405 €

Dosiahnuté výsledky:
V projekte sme prvýkrát charakterizovali a porovnali antibakteriálnu aktivitu medov a včelami spracovaných sirupov, ktoré boli pripravené z roztoku sacharózy alebo z invertného sirupu za bežných podmienkach priamo na včelnici. Ďalej sme porovnali obsah GOX a hladiny peroxidu vodíka vo vzorkách medu a včelou spracovaných sirupov. Tieto parametre boli tiež porovnané medzi spracovaným roztokom sacharózy a spracovaným invertným sirupom. Naše výsledky jasne ukazujú, že vzorky medu majú v porovnaní so sirupmi, ktoré boli spracované včelami signifikantne vyššiu antibakteriálnu aktivitu. Neboli však zistené žiadne rozdiely v obsahu GOX a akumulovaných hladinách peroxidu vodíka medzi medmi a včelami spracovanými sirupmi. Porovnanie rovnakých parametrov medzi rôznymi zdrojmi sacharidov, ktoré boli spracované včelami neodhalilo žiadne rozdiely vo všetkých meraných parametroch, s výnimkou obsahu GOX. Množstvo GOX bolo štatisticky významne vyššie v roztokoch sacharózy spracovanej včelami, čo naznačuje, že včely pri spracovaní roztoku sacharózy pravdepodobne vylučujú viac enzýmov metabolizujúcich sacharidy. Stanovenie intenzity farby medu ukázalo, že vo včelstvách boli včelami spracované sirupy čiastočne zmiešané s medom.

Výstupy:

BUGÁROVÁ, V. - GODOČÍKOVÁ, J. - BUČEKOVÁ, M. - BRODSCHNEIDER, R. - MAJTÁN, J.**. Effects of the carbohydrate sources nectar, sucrose and invert sugar on antibacterial activity of honey and bee-processed syrups. In Antibiotics, 2021, vol. 10, no. 985.

MAJTÁN, J.** - BUČEKOVÁ, M. - KAFANTARIS, I. - SZWEDA, P. - HAMMER, K. - MOSSIALOS, D. Honey antibacterial activity: A neglected aspect of honey quality assurance as functional food. In Trends in Food Science and Technology, 2021, vol. 118, p. 870-886.

12.) Bio-čistenie farebných škvŕn na historických dokumentoch: mikrobiálne, enzymatické a chemické prístupy *(Bio-cleaning of colored stains on historical documents: microbial, enzymatic,*

and chemical approaches)

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0099/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9437 €

Dosiahnuté výsledky:
Mnohé mikroorganizmy boli izolované a vybrané pre ich hydrolytické vlastnosti. Celulolytické, lipolytické, proteolytické a ligninolytické mikroorganizmy boli použité v bioreštauračných aplikáciách, najmä na biočistenie.

Publications:
Sidari, R., Ženišová, K., Tobolková, B., Belajová, E., Cabicarová, T., Bučková, M., Puškárová, A., Planý, M., Kuchta, T. and Pangallo, D., 2021. Wine Yeasts Selection: Laboratory Characterization and Protocol Review. Microorganisms, 9(11), p.2223.
Kisová, Z., Pavlović, J., Šefčiková, L., Bučková, M., Puškárová, A., Kraková, L., Šišková, A.O., Kleinová, A., Machatová, Z. and Pangallo, D., 2021. Removal of overpainting from an historical painting of the XVIII Century: a yeast enzymatic approach. Journal of Biotechnology, 335, 55-64.
Planý, M., Pinzari, F., Šoltys, K., Kraková, L., Cornish, L., Pangallo, D., Jungblut, A.D. and Little, B., 2021. Fungal-induced atmospheric iron corrosion in an indoor environment. International Biodeterioration & Biodegradation, 159, p.105204.
Pavlovic, J., Cavalieri, D., Mastromei, G., Pangallo, D., Perito, B. and Marvasi, M., 2021. MinION technology for microbiome sequencing applications for the conservation of cultural heritage. Microbiological Research, p.126727.

13.) Izolácia a pokročilá charakterizácia nových probiotických mikroorganizmov s potenciálom pre uplatnenie v biomedicíne a biotechnológiách *(Isolation and advanced characterization of new probiotic microorganisms with potential for use in biomedicine and biotechnology)*

Zodpovedný riešiteľ:	Vladimír Pevala
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	1/0519/18
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Lekárska fakulta UPJŠ, Košice
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 1380 €

Dosiahnuté výsledky:
Počas roka 2021 sa dokončila genomická a proteomická analýza probiotického kmeňa *Lactobacillus plantarum* LS/07 pre publikovanie v pripravovanom článku. V sekretóme študovaného kmeňa sa identifikovali zaujímavé proteíny s využitím online dostupných a našich unikátnych genomických dát.

14.) Hybridné, lignolytické a verzatilné hémové peroxidázy z askomycétnych a bazidiomycétnych húb *(Hybrid, lignolytic and versatile heme peroxidases from Ascomycetes and Basidiomycetes)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0061/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Holandsko: 1
Čerpané financie:	VEGA SAV: 10920 €

Dosiahnuté výsledky:
Dosiahli sme v spolupráci s brazílskymi kolegami významné výsledky ohľadom prieskumu reaktivity askorbátových peroxidáz a im evolučne príbuzných enzýmov, ktoré boli zverejnené v článku Lazzarotto, F., Menguer, P.K., Del-Bem, L., Zámocký, M., Margis-Pinheiro, M. Ascorbate Peroxidase Neofunctionalization at the Origin of APX-R and APX-L: Evidence from Basal Archaeplastida. Antioxidants (2021) 10(4):597. Výsledky ohľadom reaktivity rôznych peroxidáz s dôležitými substrátmi boli prezentované na online konferencii 14th World Congress on Polyphenols Applications 22.-24.9.2021 formou prednášky: Zámocký M., Poljovka A. "Differences within four heme peroxidase superfamilies in the reactivity with phenolic compounds" v príslušnom zborníku konferencie na str. 26.

Programy: APVV

15.) STROM A KRAJINA – VPLYV DREVÍN NA DIVERZITU PÔDNYCH MIKROORGANIZMOV V POĽNOHOSPODÁRSKEJ KRAJINE *(Tree and country - influence of trees on diversity of soil microorganisms in agricultural land)*

Zodpovedný riešiteľ:	Slavomír Adamčík
Zodpovedný riešiteľ v organizácii SAV:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0257
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Botanický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV - SAV: 3131 €

Dosiahnuté výsledky:
Na začiatku projektu sme sa zamerali na analýzu zloženia pôd pochádzajúcich z bučín stredného Slovenska najmä na prítomnosť húb, ktoré vykazujú mangán-peroxidázové aktivity. Pomocou vybraných primerov na PCR sme sledovali biodiverzitu v pôdnych vzorkách z rôznych lesných lokalít.

16.) Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry *(Asymmetric cell division during bacterial endospore formation)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 42090 €

Dosiahnuté výsledky:
Dôležitou súčasťou Min systému v gram-pozitívnych baktériách je DivIVA proteín. Tento proteín bol pôvodne identifikovaný ako priestorový regulátor bunkového delenia v modelovom organizme *Bacillus subtilis*, ale jeho homológy sú prítomné v mnohých iných gram-pozitívnych baktériách, vrátane druhov Clostrídií. Okrem svojej úlohy ako topologického regulátora systému Min počas delenia bakteriálnych buniek sa DivIVA podieľa na segregácii chromozómov počas sporulácie, genetickej kompetencii a syntéze bunkovej steny. DivIVA sa lokalizuje do oblastí s vysokým zakrivením membrány, ako sú bunkové póly a miesto bunkového delenia, kde získava odlišných väzbových partnerov. Predtým sa predpokladalo, že rozpoznávanie negatívneho zakrivenia je hlavným mechanizmom, ktorým sa DivIVA viaže na tieto špecifické oblasti. My sme ukázali, že *Clostridioides difficile* DivIVA sa prednostne viaže na membrány obsahujúce negatívne nabité fosfolipidy, najmä kardiolipín. Prekvapivo sme pozorovali, že po naviazaní DivIVA modifikuje distribúciu lipidov a indukuje zmeny lipidických dvojvrstiev obsahujúcich kardiolipín. Naše pozorovania naznačujú, že DivIVA môže hrať komplexnejšiu a doteraz neznámu aktívnu úlohu pri tvorbe membrány deliacej prepážky počas bunkového delenia.

Publikácie:

1. M. Bodík, D. Krajčíková, J. Hagara, E. Majkova, I. Barák and P. Šiffalovič (2021) Diffraction pattern of *Bacillus subtilis* CotY spore coat protein 2D crystals. Colloids and Surfaces B-Biointerfaces , doi: 10.1016/j.colsurfb.2020.111425 (IF = 4.39) (Q1 JCR2019; Q1 SJR2019)

2. H. Han, R. Schubert, J. Makroczyova, D. Meza, P. Heuser, M. Aepfelbacher, I. Barák, C. Betzel, P. Fromme, J. Hajdu, I. Kursula, V. S Lamzin, P. Nissen, E. Tereschenko, J. Schulz, C. Uetrecht, J. Uličný and K. Lorenzen (2021) The XBI BioLab for life science experiments at the European XFEL. Journal of Applied Crystallography 54, 1-15. https://doi.org/10.1107/S1600576720013989 (IF = 2.99) (Q2 JCR2019; Q1 SJR2019)

3. D. Krajcikova, V. Bugarova and I. Barak (2021) YncD, *Bacillus subtilis* spore coat alanine racemase and its role in spore formation and germination. Microorganisms 9, 285. https://doi.org/10.3390/microorganisms9020285 (IF 4.15) (Q2 JCR2019; Qx SJR2019)

4. N. Labajova, N. Baranova, M. Jurásek, R. Vácha, M. Loose and I. Barak (2021) DivIVA binds to cardiolipin-containing lipid bilayers. Int. J. Mol. Sci., 22, 8350. https://doi.org/10.3390/ijms22158350 (IF 5.92) (Q1 JCR2020; Q1 SJR2020)

5. Barak I. (2021) Special Issue "*Bacillus subtilis* as a Model Organism to Study Basic Cell Processes". Microorganisms 9, 2459 (IF 4.15) (Q2 JCR2019; Qx SJR2019)

17.) Farebné škvrny na historických papieroch: biologická a chemická charakterizácia

spojená s ich odstraňovaním *(Colored stains on historical papers: biological and chemical characterization coupled with removal solutions)*

Zodpovedný riešiteľ:	Mária Bučková
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0059
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 25000 €

Dosiahnuté výsledky:
Vysokovýkonné sekvenovanie založené na platforme MinION sa použilo na analýzu mikrobioty prítomnej v rôznych objektoch kultúrneho dedičstva a okolitom prostredí. Na odstránenie lipidickej patiny z historickej maľby sa použil prístup enzymatického biočistenia.

Publications:
Kisová, Z., Pavlović, J., Šefčiková, L., Bučková, M., Puškárová, A., Kraková, L., Šišková, A.O., Kleinová, A., Machatová, Z. and Pangallo, D., 2021. Removal of overpainting from an historical painting of the XVIII Century: a yeast enzymatic approach. Journal of Biotechnology, 335, 55-64.
Planý, M., Pinzari, F., Šoltys, K., Kraková, L., Cornish, L., Pangallo, D., Jungblut, A.D. and Little, B., 2021. Fungal-induced atmospheric iron corrosion in an indoor environment. International Biodeterioration & Biodegradation, 159, p.105204.
Pavlovic, J., Cavalieri, D., Mastromei, G., Pangallo, D., Perito, B. and Marvasi, M., 2021. MinION technology for microbiome sequencing applications for the conservation of cultural heritage. Microbiological Research, p.126727.

18.) Príprava bakteriofágov na terapiu vaginálnych a močových infekcií *(Bacteriophage preparations for therapy of vaginal and urinary infection)*

Zodpovedný riešiteľ:	Gabriela Bukovská
Trvanie projektu:	1.7.2017 / 31.12.2021
Evidenčné číslo projektu:	APVV-16-0168
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 7500 €

Dosiahnuté výsledky:
V poslednom roku riešenia projektu APVV sme sa venovali expresii a stanoveniu aktivity endolyzínu KMB-572_5 (dve katalytické domény: Amidase5, glucosaminidase a jedna väzbová doména Cpl-7; 52,9 KDa). Lytickú aktivitu izolovaného proteínu sme stanovili pomocou difúznej a optickej metódy. Určili sme optimálne podmienky pre lytickú aktivitu endolyzínu EN572_5: pH 6-7, 5 mM Ca2+, 50-150 mM NaCl. Zistili sme, že endolyzín EN572_5 je aktívny aj po osemnástich týždňoch pri teplote 6°C v elučnom roztoku s obsahom 500 mM imidazolu. Pri sledovaní lytického spektra endolyzínu EN572_5 pre rôzne substráty sme pomocou optickej metódy otestovali 13

rôznych izolátov *S. agalactiae*, kde sme zaznamenali v priemere 75% lytickú aktivitu.
Pokračovali sme v bioinformatickej a biochemickej charakterizácii endolyzínu EN534-C. Pomocou bioinformatických softvérov sme pripravili 3D model EN534 a predikovali väzbové miesta pre dvojmocné katióny vápnika a zinku. Potvrdili sme, že v prítomnosti dvojmocných katiónov vápnika dochádza k zvýšeniu lytickej aktivity endolyzínu voči vybraným bakteriálnym kmeňom. Pomocou drop testu sme testovali lytickú aktivitu endolyzínu EN534-C na ďalších bakteriálnych kmeňoch a rozšírili tak antibakteriálne spektrum pôsobenie endolyzínu voči ďalším kmeňom *Streptococcus agalactiae, Enterococcus faecalis* a *Staphylococcus aureus*. Lytickú aktivitu endolyzínu EN534-C sme potvrdili analýzou viability buniek pomocou kvapkového testu a optickej analýzy pri teplotách 4°C, 20°C, 25°C, 30°C, 37°C a 42°C, pričom najvyššia lytická aktivita voči vybranému bakteriálnemu kmeňu *S. agalactiae* CCM6187 bola dosiahnutá pri teplotách 30°C a 37°C.
V rámci riešenia projektu sa zaoberáme štúdiom proteínu gp15 bakteriofága BFK20, s doménou pre solubilnú lytickú transglykozylázu (SLT). Pripravili sme 7 rôznych konštruktov obsahujúcich túto doménu, ktoré sú navzájom odlišné dĺžkou sekvencií priľahlých k SLT doméne. Predpokladaná veľkosť jednotlivých proteínov sa pohybuje v rozmedzí od 12 – 44 kDa. Proteíny sme exprimovali v kmeni *E. coli* BL21 (DE3), pričom individuálne konštrukty vykazovali variabilnú mieru expresie a odlišný expresný profil. Predpokladáme, že skrátenie sekvencie, ktorá predchádza SLT doméne, výrazne znižuje mieru expresie oproti konštruktom, ktoré majú túto oblasť predĺženú. Zároveň sme pozorovali prítomnosť viacerých fragmentov, čo naznačuje, že dochádza k proteolytickému štiepeniu študovaného proteínu.
Naše výsledky sme spísali do vedeckej publikácie, do dvoch popularizačných článkov v časopise Quark a zúčastnili sme sa zahraničnej a domácich konferencii.

Výstupy:
1.Pápayová, K., Bocánová, L., Pšenko, M. a Bukovská, G.: Rekombinantný endolyzín EN534-C ako potenciálny bioagens s exolytickou aktivitou voči vaginálnym streptokokom. In: Tomáškovy dny 2021: 30. konference mladých mikrobiologů. [elektronický dokument] 1. vyd. ISBN 978-80-210-9882-4. Brno, ČR, Masarykova univerzita, 2021. s. 51 [online]
2.Pápayová, K., Bocánová, L., Kajsikova, M. a Bukovská, G.: Charakterizácia proteínových derivátov s lytickou doménou SLT pôvodom z proteínu gp15 korynefága BFK20. Interaktívna konferencia mladých vedcov 2021 [elektronický dokument]: Preveda. 1. vyd. ISBN 978-80-972360-7-6. Banská Bystrica: Občianské združenie Preveda, 2021. s. [1-1], art. no. 2188 [online]
3.Pápayová, K., Bocánová, L., Kajsikova, M. a Bukovská, G.: Identifikácia SLT domény proteínu gp15 bakteriofága BFK20 s vlastnosťou degradácie peptidoglykánu. Študentská vedecká konferencia PriF UK 2021 [elektronický dokument]: zborník recenzovaných príspevkov. 1. vyd. ISBN 978-80-223-5132-4. Bratislava, Prírodovedecká fakulta UK, 2021. s. 364-369 [online]
Patent:
V roku 2020 (17.12.) sme podali novú patentovú prihlášku č. PP 50075-2020 v Slovenskej republike. Dňa 16.12.2021 bola podaná medzinárodná prihláška PCT patentovej prihlášky pod číslom PCT/SK2021/050016. „Antimicrobial protein, antimicrobial recombinant protein with lytic properties, expression vector, method of their preparation and use“ v anglickom jazyku.

19.) Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov
(Harnessing the immunological mechanisms in various subtypes of B cell lymphoma)

Zodpovedný riešiteľ:	Dana Cholujová
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0212
Organizácia je	nie

koordinátorom projektu:	
Koordinátor:	Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 8431 €

Dosiahnuté výsledky:
Vzorky pacientov s rôznymi B-bunkovými lymfómami v rôznych štádiách boli analyzované pomocou hmotnostnej cytometrie (CyTOF). CyTOF dáta boli spracované SPADE algoritmom. Na základe SPADE výsledkov sme vytvorili rôzne skupiny pacientských vzoriek, ktoré sme následne porovnávali rôznymi štatistickými testami ako napr.: Mann-Whitney U-test, Kolmogorov-Smirnov test, ale aj ďalšími analýzami ako sú Korešpondenčná analýza a PCA. Výsledky pomáhajú porozumieť vzniku B-bunkových malignít.

20.) Nádorové imunoeditovanie v mnohopočetnom myelóme: imunitné kontrolné body a klinický význam *(Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance)*

Zodpovedný riešiteľ:	Jana Jakubíková
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0183
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 4152 €

Dosiahnuté výsledky:
Mnohopočetný myelóm (MM) patrí medzi nádorové ochorenie krvi (malígne B-bunkové lymfómy), ktoré vznikajú s premenou normálnych plazmatických buniek na klonálne plazmatické bunky. Imunitné kontrolné body sú špecifické inhibičné signálne dráhy. Nádorové bunky dokážu aktivovať tieto imunitné kontrolné body a tým potlačiť reakciu imunitného systému. Porozumenie týchto mechanizmov poskytuje základ pre nové liečebné postupy. V úvodnom polroku riešenia projektu sme sa venovali overeniu kvality dát, spracovaniu metadát a vizualizáciam.

21.) Zhodnotenie imunitných kontrolných bodov u B bunkových malignít *(Assessing immune-checkpoints in B cell malignancies)*

Zodpovedný riešiteľ:	Jana Jakubíková
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.7.2017 / 30.6.2021
Evidenčné číslo projektu:	APVV-16-0484
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2446 €

Dosiahnuté výsledky:
Imunitné kontrolné body sú inhibičné signálne dráhy, ktoré môžu byť aktivované nádorovými bunkami. Aktiváciou imunitných kontrolných bodov sa potlačí imunitná odpoveď. V poslednej dobe sa dosiahli veľké úspechy v terapii nádorových ochorení použitím monoklonárnych protilátok, ktoré inhibujú molekuly imunitných kontrolných bodov. Mali sme prístup k CyTOF vzorkám pacientov (s ochoreniami MM – mnohopočetný myelóm alebo WM – Waldenströmová makroglobulinémia), ktoré pochádzali nielen z primárneho nádora ale aj z nádorového mikroprostredia. Vzorky sme analyzovali pomocou rôznych algoritmov (napr. SPADE) a štatistických testov (napr. Mann-Whitney U-test). Výsledky sme zobrazovali pomoocu heatmap, box-plotov, dot-plotov a PCA. Zistené rozdiely medzi vzorkami primárneho nádoru a nádorového mikroprostredia pomáhajú vyvíjať nové liečebné postupy založených na imunoterapii. Záverečná publikácia obsahujúca výsledky tohto projektu je v súčasnosti v oponentskom konaní.

22.) Identification of new treatment options in refractory testicular germ cell tumors *(Identification of new treatment options in refractory testicular germ cell tumors)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 1527 €

Dosiahnuté výsledky:
Nádory semeníkov zo zárodočných buniek (TGCT) sú najčastejším nádorom mladých mužov s rastúcou incidenciou na Slovensku. Cieľom projektu je identifikovať nové terapeutické ciele a identifikovať nové lieky, ktoré prekonávajú rezistenciu na cisplatinu pomocou high-throughput metód molekulárnej biológie a translačného výskumu. V prvom polroku riešenie projektu bola pozornosť venovaná príprave a štandardizácii analyzačných postupov na experimentálnej aj na bioinformatickej úrovni, ako aj príprave a spracovania metadát analyzovaných vzoriek.

23.) Identifikácia a validácia signálnych dráh asociovaných s cirkulujúcimi nádorovými bunkami pri karcinóme prsníka *(Identification and validation of signalling pathways associated with circulating tumor cells in breast cancer.)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	1.7.2017 / 30.6.2021
Evidenčné číslo projektu:	APVV-16-0010
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave Lekárska fakulta
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2024 €

Dosiahnuté výsledky:
Sfinalizovali sme analýzu dát z RNA-seq vzoriek 23 pacientov s rakovinou prsníka. Analýza diferenciálnej expresie génov (DNA microarrays, RNA-seq, RT-qPCR) bola doplnená o

mettranskriptomickú štúdiu mikrobiómu prítomného v analyzovaných bunkách primárneho tumoru ako aj zdravého prsníkového tkaniva. Údaje z našich vzoriek boli porovnané s obdobnými vzorkami z Číny zo Sichuan University.

HADŽEGA, Dominik - MINÁRIK, G. - KARABA, Marián - KALAVSKA, K. - BENCA, Juraj - ČIERNIKOVÁ, Soňa - SEDLÁČKOVÁ, T. - NEMCOVÁ, Petra - BOHÁČ, M. - PINDAK, D. - KĽUČÁR, Ľuboš** - MEGO, M. Uncovering microbial composition in human breast cancer primary tumour tissue using transcriptomic RNA-seq. In International Journal of Molecular Sciences, 2021, vol. 22, no. 9058. (2020: 5.923 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22169058

24.) Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie *(Preparation of new antibiotics and antitumor agents by manipulations of secondary metabolite genes and synthetic biology methods)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0009
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 37048 €

Dosiahnuté výsledky:
Za účelom aktivácie silentných biosyntetických génových klastrov (BGC) v našom modelovom kmeni *S. lavendulae* subsp. *lavendulae* CCM 3239 sme v predchádzajúcom období pripravili indukčnú antibiotickú rezistenčnú kazetu v plazmide pKasOpAmRb so silným promótorom *kasOp** a s reverzne orientovaným génom rezistenie na apramycín.
Pripravenú kazetu sme verifikovali pri aktivácii známeho silentného BGC pre antibiotikum aktinorhodín v *Streptomyces lividans* TK24 po jej integrácii pred gén SLIV_12960 (actII-4), kódujúci pozitívny regulátor rodiny SARP, ktorý by mal aktivovať všetky biosyntetické gény pre aktinorhodín ale aj ďalšie antibiotikum undecylprodigiosín. Pripravili a verifikovale sme rekombinantné kmene so správne integrovanou kazetou pre génom SLIV_12960 (actII-4). Avšak po fenotypickej analýze nedochádzalo k produkcii aktinorhodínu, ale druhého silentného antibiotika undecylprodigiosínu, čo je v súlade s publikovanými výsledkami. Absencia aktinorhodínu je pravdepodobne spôsobená inhibíciou aktinorhodínového biosyntetického génu SLIV_12965 reverznou transkripciou génu rezistencie pre apramycín z integrovanej kazety. Preto sme pre účely ďalšieho použitia tejto kazety zaviedli silný obojstranný terminátor T5 zo *S. lavendulae* subsp. *lavendulae* CCM 3239 za gén rezistencie pre apramycín, za tvorby plazmidu pKasOpAmRT2.
Na overenie stratégie aktivácie silentných BGC v našom študovanom kmeni *S. lavendulae* subsp. *lavendulae* CCM 3239 sme pripravenú kazetu z pKasOpAmRb integrovali pomocou stratégie REDIRECT pred silentný biosyntetický gén *bspA* kódujúci neribozomálnou peptidsyntetázou (NRPS) z BGC pre modrý pigment indigoidín. Pripravené rekombinantné kmene sme geneticky verifikovali. Fenotypová analýza týchto mutantných kmeňov *S. lavendulae*, *bpsAkasOp::aac*1, 2, 3, 4 preukázala 528-násobnú zvýšenú produkciu modrého pigmentu indigoidínu v porovnaní s kmeňom divokého typu. Tieto výsledky potvrdili účinnú aktiváciu BGC pre indigoidín pomocou tohto systému u *S. lavendulae* subsp. *lavendulae* CCM 3239.
V predchádzajúcom období sme bioinformatickou analýzou genómu *S. lavendulae* subsp. *lavendulae* CCM 3239 identifikovali 27 BGCs pre rôzne reprezentatívne typy sekundárnych

metabolitov. Ich detailnou bioinformatickou analýzou sme identifikovali v každom BGC potenciálne gény pre dráhovo-špecifické regulátory, ako aj operónové usporiadanie daných BGC a ich trankripciu. Na základe tejto analýzy sme pre aktiváciu pomocou pripravenej aktivačnej kazety v plazmide pKasOpAmRT2 vybrali BGC2 pre silentnú neznámu polyketid syntetázu prvého typu (PKSI), BGC11 a BGC15 pre neznáme neribozomálne peptidové syntetázy (NRPS), BGC21 pre lantipeptid a BGC26 pre predpokladané pyrolidínové antibiotikum. Vo všetkých prípadoch biosyntetické gény boli organizované v operónoch, kde sme navrhli primery pre integráciu tejto kazety pred prvý biosyntetický gén v operóne alebo pred predpokladaný transktipčný aktivátor v danom BGC. V predchádzajúcom období sme dokázali, že jeden z BGC u *S. lavendulae* subsp. *lavendulae* CCM 3239 (SLAV_37345 – SLAV_37475) je zodpovedný za produkciu známeho aminoglykozidového antibiotika streptotricín. Po delécii tohto BGC došlo k strate jeho produkcie. Ako alternatívu TAR klonovania sme pripravili a optimalizovali nový účinný systém pre bezmarkerové vkladanie veľkých BGC do oblastí genómu vhodného hostiteľa *Streptomyces lividans RedStrep 1.3* pre ich účinnú a stabilnú heterologickú expresiu. Pripravený systém na báze plazmidu pAMR23A sme verifikovali úspešnou integráciou časti landomycínového BGC (lanFABCDL) pod kontrolu silného promótora *ermEp** a celého 40 kb BGC pre mitramycín v kmeni *S. lividans RedStrep 1.3*. Pripravené bezmarkerové kmene boli stabilné a produkovali vysoké hladiny UWM6/rabelomycínu a mitramycínu.
V predchádzajúcom období sme pomocou metódy REDIRECT deletovali viaceré potenciálne biosyntetické gény auricínového klastra v genóme *S. lavendulae* subsp. *lavendulae* CCM 3239. Všetky pripravené mutanty sme verifikovali Southern blot hybridizáciou. Pomocou TLC, biochromatografiou a HPLC sme postupne analyzovali produkciu sekundárnych metabolitov u pripravených mutantov. U niektorých doposiaľ charakterizovaných mutantov nebola postihnutá biosyntéza auricínu (*aur1DE, aur1H, aur1G, aur1N, sa14, sa16, sa21, sa22, sa27, aur2E*), takže uvedené gény nie sú esenciálne pre biosyntézu auricínu. U ďalších došlo k výraznému poklesu produkcie auricínu (*aur1A, sa15, sa45, aur2F*), takže tieto gény sú dôležité pri biosyntéze auricínu, ale daný krok je sprostredkovaný aj ďalším homologickým génom. U niektorých mutantov nedochádzalo k produkcii auricínu a ani žiadneho iného sekundárneho metabolitu (*aur1C, sa49, sa50, aur2AB, aur2C, aur2EFGHI, aur2B-I*). Tieto gény sú kritické pre biosyntézu auricínu. V prípade mutantov v géne *sa48, sa10, sa11, sa12,* a *sa13* nedochádzalo k produkcii auricínu, ale iného sekundárneho metabolitu, pravdepodobne medziproduktu auricínu. Pripravili sme kmeň *S. lavendulae DelLP* s deletovaným veľkým lineárnym plazmidom pSA3239, ktorý obsahuje aj auricínový BGC. Genomická sekvencia tohto kmeňa preukázala cirkularizáciu chromozómu u *S. lavendulae* subsp. *lavendulae*. Bioinformatická analýza genómu potvrdila eseniálnu úlohu pSA3239 pre replikáciu aj lineárneho chromozómu *S. lavendulae* subsp. *lavendulae* CCM 3239.
V predchádzajúcom období sme pomocou PCR amplifikovali viaceré kľúčové biosyntetické gény pre aromatické polyketidové antibiotiká landomycín (*lan*), auricín (*aur),* mitramycín (*mtm*) a aktinorhodín (*act*) a klonovali ich pod kontrolou silného RBS miesta za účelom vytvorenia operónu pod kontrolou silného *kasOp** promótora. Viaceré predpokladané biosyntetické gény počiatočných krokov výstavby týchto antibiotík sme postupne klonovali a kombinovali do operónov pod kontrolou silného *kasOp** promótora a fágového PhiBT1 integračného vektora. Po ich konjugácii do heterologického hostiteľského kmeňa *S. coelicolor* M1146 sme analyzovali produkciu sekundárnych metabolitov pomocou TLC a HPLC. V prípade rekombinantného plazmidu pKasOp-aur1DEFCGHA z auricínového BGC nedochádzalo k produkcii žiadneho sekundárneho metabolitu. V prípade pKasOp-lanABCFDLE z landomycínového BGC dochádzalo k produkcii rabelomycínu, ktorý je vedlajším produktom medziproduktu väčšiny angucyklínových antibiotík. V prípade zmesného plazmidu pKasOp-aur1DEFlanFDLE rovnako nedochádzalo k produkcii žiadneho sekundárneho metabolitu. Avšak v prípade zmesného plazmidu pKasOp-lanABCaur1CGHA dochádzalo k produkcii rabelomycínu a rovnako aj v prípade zmesného plazmidu pKasOp-mtmABCtaur1CGHA. V prípade zmesného plazmidu pKasOp-actABCtaur1CGHA dochádzalo k produkcii novej látky s m/z=325.0734 [M+H]+. Tieto výsledky naznačujú, že kľúčové biosyntetické gény *aur1D* a *aur1E*, kódujúce homológy KSα a KSβ, sú neaktívne a ich úlohu

pravdepodobne nahradzujú iné homologické gény *aur2A* a *aur2B* zo vzdialeného klastra *aur2*. Tento predpoklad sme aj potvrdili rozrušením génov *aur1DE* a *aur2AB* v chromozóme *S. lavendulae* subsp. *lavendulae* CCM 3239, kde v prvom prípade nebola postihnutá produkcia auricínu a v druhom prípade nedochádzalo k produkcii. Obdobne, keď sme nahradili gény *aur1DE* homologickými génmi *aur2AB*, tak v prípade tohto zmesného konštruktu pKasOp-aur2ABtaur1FCGHA dochádzalo k nízkej produkcií rabelomycínu. Táto však bola dramaticky zvýšená priradením ďalších dvoch biosyntetických génov *aur1L* a *aur1M*, ktoré kódujú fosfopanteteinyltransferázu (PPTase) potrebnú pre aktiváciu ACP a malonyl CoA:ACP transacylázu (MCAT) potrebnú pre naviazanie malonyl CoA na ACP. Uvedený konštrukt pKasOp-aur2ABtaur1FCGHALM po konjugácii do *S. coelicolor* M1146 spôsobil vysokú produkciu rabelomycínu. Takže, tieto dva biosyntetické gény sú rovnako potrebné pre počiatočné kroky výstavby auricínového aglykónu. Po ich priradení za heterologický operón *actABCtaur1CGHA* rovnako dochádzalo k výrazne zvýšenej produkcii novej látky s m/z=325.0734 [M+H]+ po konjugácii pKasOp-actABCtaur1CGHALM do *S. coelicolor* M1146. Tieto výsledky zároveň potvrdzujú funkčnosť biosyntetických génov *aur2A* (KSα), *aur2B* (KSβ), *aur1F* (ACP), *aur1C* (CYC), *aur1G* (KR), *aur1H* (ARO), *aur1L* (PPTase), *aur1M* (MCAT) pri výstavbe auricínového aglykónu. Taktiež sú v súlade s unikátnou štruktúrou auricínu, ktorá naznačuje jedinečný mechanizmus jeho biosyntézy dvoma prekrývajúcimi sa biosyntetickými cestami, pre angucyklíny (*aur1*) a pyronaftochinóny (*aur2*).

Publikácie

1, Csolleiova D, Knirschova R, Rezuchova D, Homerova D, Sevcikova B, Matulova M, Nú?ez LE, Novakova R, Feckova L, Javorova R, Cortés J, Kormanec J: An efficient system for stable markerless integration of large biosynthetic gene clusters into *Streptomyces* chromosomes. Appl. Microbiol. Biotechnol. 105 (2021) 2123-2137.

2, Novakova R, Rückert C, Knirschova R, Feckova L, Busche T, Csolleiova D, Homerova D, Rezuchova B, Javorova R, Sevcikova B, Kalinowski J, Kormanec J: The linear plasmid pSA3239 is essential for the replication of the *Streptomyces lavendulae* subsp. *lavendulae* CCM 3239 chromosome. Res. Microbiol. 172 (2021) 103870.

3, Kormanec J, Rezuchova B, Novakova R: Screening systems for stable markerless genomic deletions/integrations in *Streptomyces* species. Antimicrobial Therapies (Barreiro C, Barredo JL, eds.). Methods in Molecular Biology Vol. 2296, Humana, New York, NY, 2021, pp. 91-141.

25.) Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. *(Interaction between proteases, chaperones and kinases in stress condition cause by pathological conditions.)*

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0298
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 40000 €

Dosiahnuté výsledky:

V roku 2021 sme pokračovali v štúdiu vplyvu fosforylácie na vlastnosti vybraných proteínov mitochondriálneho nukleoidu, konkrétne TFAM a Lon proteázy. Výsledky boli súčasťou úspešne obhájenej dizertačnej práce Mgr. Veroniky Kotrasovej s názvom „Vplyv fosforylácie na vlastnosti a stabilitu proteínov mitochondriálneho nukleoidu“. Pripravené vzorky fosfomimikujúcich mutantov Lon proteázy analyzujeme elektrónovou mikroskopiou v spolupráci s Centrálnym laboratóriom kryoelektrónovej mikroskopie a tomografie CEITEC v Brne .
V spolupráci so skupinou prof. Ľubomíra Tomášku (Katedra genetiky UK v Bratislave) sme dokončili štúdium vplyvu sukcinylácie na mitochondriálny nukleoid kvasinky *S. cerevisiae*.
Výsledkom aktívnej spolupráce je publikácia:
Frankovsky, J., Keresztesova, B., Bellova, J., Kunova, N., Canigova, N., Hanakova, K., Bauer, J., Ondrovicova, G., Lukacova, V., Sivakova, B., Zdrahal, Z., Pevala, V., Prochazkova, K., Nosek, J., Kutejova, E., Tomáška Ľ.
The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids.
(2021) J. Biol. Chem. 297 (4): 1-16.

Obmedzenú možnosť práce v laboratóriu spôsobenú pandémiou COVID-19 sme využili na prípravu a publikovanie review článkov:

Kotrasova, V., Keresztesova, B., Ondrovicova, G., Bauer, J., Havalova, H., Pevala, V., Kutejova, E., Kunova, N.
Mitochondrial Kinases and the Role of Mitochondrial Protein Phosphorylation in Health and Disease.
(2021) LIFE-BASEL 11: 82

Havalova, H., Ondrovicova, G., Keresztesova, B., Bauer, J., Pevala, V., Kutejova, E., Kunova, N.
Mitochondrial HSP70 Chaperone System - The Influence of Post-Translational Modifications and Involvement in Human Diseases.
(2021) Int J Mol Sci 22(15): 8077

26.) Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19 *(The double-edged sword of the plasminogen system: From homeostasis maintenance to COVID-19)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0513
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 19914 €

Dosiahnuté výsledky:
Kvôli pandémii koronavírusu sme sa sústredili na štúdium infekcie buniek vírusom SAR-CoV2. Podarilo sa nám odhaliť možný spôsob blokovania infekcie a na základe toho pripraviť vedeckú publikáciu, ktorá je toho času v štádiu revízie.

27.) Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie *(Lactoferrin and lactoferricin as natural plasmin inhibitors: From the structure resolution to therapeutic applications)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0152/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6145 €

Dosiahnuté výsledky:
Sústredili sme sa na úlohu laktofericínu pri blokovaní infekcie buniek vírusom SARS-CoV-2 a pripravili vedecký článok, ktorý je teraz v štádiu revízie.

28.) 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
Trvanie projektu:	1.7.2017 / 30.6.2021
Evidenčné číslo projektu:	APVV-16-0452
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 24221 €

Dosiahnuté výsledky:
Kvôli pandémii koronavírusu sme sa sústredili na štúdium infekcie buniek vírusom SAR-CoV2. Podarilo sa nám odhaliť možný spôsob blokovania infekcie a na základe toho pripraviť vedeckú publikáciu, ktorá je toho času v štádiu revízie.

29.) Mikrobiálne kontaminanty v tradičných slovenských syroch: ich eliminácia vedeckými nástrojmi založenými na kvantitatívnej analýze a matematickom modelovaní *(Microbial contaminants in traditional Slovakian cheeses: their elimination by scientific tools based on quantitative analysis and mathematical modelling)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0031
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská technická univerzita v Bratislave Fakulta chemickej a potravinárskej technológie
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 25000 €

Dosiahnuté výsledky:
Štúdium povrchového rastu izolátov vláknitej huby *Mucor circinelloides* z produktov a výrobných

závodov tradičných slovenských syrov, vo vzťahu k environmentálnym faktorom (teplota, pH, aw, dekontaminačné prostriedky). Predmetom výskumu bude charakterizácia povrchového rastu *Mucor circinelloides* so zameraním na rozdiely v rýchlosti rastu vzhľadom na živné médium.

30.) Štartovacie a prídavné kultúry na výrobu slovenskej bryndze s tradičnými organoleptickými vlastnosťami. *(Microbial starters and adjunct cultures for production of Slovakian bryndza cheese with traditional organoleptic properties)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0001
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národné poľnohospodárske a potravinárske centrum; Výskumný ústav potravinársky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 8000 €

Dosiahnuté výsledky:
Cieľom tohto výskumného projektu bude syntetizovať doteraz získané poznatky, využiť internú zbierku mikrobiálnych izolátov z tradičných slovenských syrov vytvorenú v rámci predchádzajúcich výskumných projektov a doplniť tieto o ďalšie potrebné poznatky a ďalšie kmene baktérií mliečneho kysnutia i kvasiniek a vláknitých húb ako kandidátov na štartovacie kultúry. Predkladaný výskumný projekt sa bude zaoberať charakterizáciou mikrobiálnych spoločenstiev a genetickou charakterizáciu mikroorganizmov v srvátkových kultúrach a zrecích miestnostiach, na čo sa použijú kultivačné mikrobiologické metódy a moderné molekulárno-biologické metódy vrátane veľkokapacitného paralelného sekvenovania DNA (High-throughout sequencing). Študovať budeme tiež diverzitu bakteriofágov, keďže ovplyvňujú mikrobiálne spoločenstvá syrov a potenciálnu úspešnosť štartovacích kultúr. Na objektívnu charakterizáciu arómy modelových syrov sa použije plynová chromatografia – olfaktometria s podporou plynovej chromatografie – hmotnostnej spektrometrie. Výstupom projektu bude súbor kmeňov mikroorganizmov a poznatkov o ich metabolickom potenciáli, vrátane údajov z ich experimentálnej aplikácie, ktoré bezprostredne umožnia technický vývoj štartovacích kultúr pre výrobu bryndze s tradičnými organoleptickými vlastnosťami.

31.) Črevná mikrobiota a diabetická periferálna neuropatia: účinok cemtirestatu v potkaňom modely diabetu. *(Gut microbiota and diabetic peripheral neuropathy: effect of cemtirestat in rat models of diabetes.)*

Zodpovedný riešiteľ:	Milan Štefek
Zodpovedný riešiteľ v organizácii SAV:	Domenico Pangallo
Trvanie projektu:	1.8.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0411
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 10000 €

Dosiahnuté výsledky:
Mikrobiálna nerovnováha vo vnútri gastrointestinálneho traktu (dysbióza) môže byť spojená s metabolickými poruchami ako je obezita, inzulínová rezistencia, diabetes a imunitná dysfunkcia. Tieto prepojenia sú však stale kontroverzné a vyžadujú ďalší výskum. Cieľom tohto projektu je lepšie porozumenie vzájomných interakcií črevnej mikrobioty a diabetického stavu a odhalenie ich dôsledkov na vývoj chronických diabetických komplikácií s dôrazom na periférnu neuropatiu. Budú sa študovať účinky cemtirestatu, nového inhibítora aldózareduktázy, na vyššie uvedené procesy. Experimentálne údaje poskytnú cenné poznatky o úlohe zmien črevnej mikrobioty v etiológii diabetickej periférnej neuropatie a naznačia možné terapeuticé prístupy.

32.) Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách *(Fungal Hybrid Heme Peroxidases from Primeval Forest with Application in Environmental Biotechnologies)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0284
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV - SAV: 9529 €

Dosiahnuté výsledky:
Rozsiahle genomické analýzy zamerané prvotne na evolúciu glutatión peroxidáz boli zverejnené v publikácii Trenz, T., Delaix, C., Turchetto-Zolet, A., Zámocký, M., Lazzarotto, F., Margis-Pinheiro, M. "Going Forward and Back: The complex Evolutionary History of the GPx" ktorá vyšla v časopise Biology Basel (2021) 10(11) 1165. Zároveň sa rozbehla prvá séria genomických analýz vzoriek lesnej pôdy odobranej z bučín stredného Slovenska. Pozorované zmeny diverzity rôznych hémových peroxidáz boli prezentované na medzinárodnej online konferencii 14th World Congress on Polyphenols Applications v dňoch 22.-24.9.2021 formou prednášky: Zámocký M., Poljovka A. "Differences within four heme peroxidase superfamilies in the reactivity with phenolic compounds" v príslušnom zborníku tejto konferencie na str. 26.

33.) Výskum a vývoj efektívnych procesov prípravy vanilínu a iných prírodných aróm s využitím oxidačného a protektívneho účinku rekombinantnej katalázy a peroxidázy *(Research & development of effective processes for the preparation of vanillin and other natural flavors using the oxidative and protective effect of recomtinant catalase and peroxidase)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.8.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0333
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV SAV: 7099 €

Dosiahnuté výsledky:
Výsledky ohľadom skúmanej reaktivity rôznych hémových peroxidáz s dôležitými prírodnými

substrátmi boli prezentované na online konferencii 14th World Congress on Polyphenols Applications 22.-24.9.2021 formou prednášky: Zámocký M., Poljovka A. "Differences within four heme peroxidase superfamilies in the reactivity with phenolic compounds" v príslušnom zborníku konferencie na str. 26. Prebehlo tiež posúdenie rôznych typov peroxidáz pre konverziu na vanilín.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

34.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2020 / 30.6.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Univerzitný Vedecký park
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ŠF: 74505 €

Dosiahnuté výsledky:
V rámci riešenia projektu bola navrhnutá a otestovaná metodika identifikácie a kvantifikácie baktérialnych členov červeného mikrobiomu využívajúca sekvenovanie dlhých úsekov DNA obsahujúcich ribozomálne operónové sekvencie (rrn). Táto metodika zahŕňa amplifikáciu úsekov dlhých približne 4000 bázových párov obsahujúcich gény kódujúce 3 hlavné časti - malú ribozomálnu podjednotku, medzerníkovú oblasť a veľkú ribozomálnu podjednotku (16S-ITS-28S), ich následnú purifikáciu po separácii z elektroforetického gélu pomocou kitu a následné sekvenovanie pomocou zariadenia MinION (ONT). Vyvinutá metodika zahŕňa aj nami naskriptovaný proces bioinformatického spracovania a vyhodnotenia sekvenčných dát, ktorý na taxonomickú klasifikáciu a identifikáciu neznámych baktérií využíva nami vytvorenú databázu referenčných sekvencií označenú ako “AEROS” (skratka z angl. Almost Entire Ribosomal Operon Sequences). Databáza AEROS je tvorená z ribosomálnych operónových sekvencií z celkovo 7 192 organizmov a je verejne dostupná online pre vedecké účely na https://github.com/xsitarcik/AEROS-DB. Metodika bola úspešne overená aj na umelo vytvorenej modelovej skupine baktérií obsahujúcej rody prirodzene sa vyskytujúce v ľudskom črevnom mikrobióme.

Príloha C
Publikačná činnosť organizácie (*generovaná z ARL*)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 BAUER, Jacob** - BAUEROVÁ-HLINKOVÁ, Vladena. Normal mode analysis: a tool for better understanding protein flexibility and dynamics with application to homology models. In Homology molecular modeling : perspectives and applications. - London : IntechOpen, 2021, p. 13-30. ISBN 978-1-83962-805-4.

ABC02 FURTMULLER, P.G. - ZÁMOCKÝ, Marcel - HOFBAUER, S. - OBINGER, C. Evolution, structure and biochemistry of human peroxidases. In Mammalian heme peroxidases : diverse roles in health and disease. - London : CRC Press, 2021, p. 3-20. ISBN 978-1-0032-1228-7.

ABC03 KORMANEC, Ján** - REŽUCHOVÁ, Bronislava - NOVÁKOVÁ, Renáta. Screening systems for stable markerless genomic deletions/integrations in Streptomyces species. In Antimicrobial therapies : methods and protocols. - New York : Springer-Verlag, Humana Press, 2021, p. 91-141. ISBN 978-1-0716-1358-0. Dostupné na: https://doi.org/10.1007/978-1-0716-1358-0_6

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB01 KABÁT, Peter - BAUEROVÁ, Vladena - BAUER, Jacob. Proteíny štruktúra a funkcia : 2. diel Funkcia proteínov. H. Drahovská, M. Kúdelová. 1. vyd. Bratislava : Univerzita Komenského, 2021. 105 s. ISBN 978-80-223-5094-5

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 BAUER, Jacob** - ŽOLDÁK, Gabriel**. Interpretation of single-molecule force experiments on proteins using normal mode analysis. In Nanomaterials-Basel, 2021, vol. 11, no. 11, no. 2795. (2020: 5.076 - IF, Q1 - JCR, 0.919 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: https://doi.org/10.3390/nano11112795

ADCA02 BODIK, Michal** - KRAJČÍKOVÁ, Daniela - HAGARA, Jakub - MAJKOVÁ, Eva - BARÁK, Imrich** - ŠIFFALOVIČ, Peter. Diffraction pattern of Bacillus subtilis CotY spore coat protein 2D crystals. In Colloids and Surfaces B - Biointerfaces, 2021, vol. 197, 111425. (2020: 5.268 - IF, Q1 - JCR, 0.939 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0927-7765. Dostupné na: https://doi.org/10.1016/j.colsurfb.2020.111425

ADCA03 CSÖLLEIOVÁ, Dominika - KNIRSCHOVÁ, Renáta - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - ŠEVČÍKOVÁ, Beatrica - MATULOVÁ, Mária - NÚñEZ, L.E. - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - JAVOROVÁ, Rachel - CORTÉS, J. - KORMANEC, Ján**. An efficient system for stable markerless integration of large biosynthetic gene clusters into Streptomyces chromosomes. In Applied Microbiology and Biotechnology, 2021, vol. 105, p. 2123–2137. (2020: 4.813 - IF, Q1 - JCR, 1.074 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-021-11161-w

ADCA04 DANKO, Martin** - MOSNÁČKOVÁ, Katarína - VYKYDALOVÁ, Anna - KLEINOVÁ, Angela - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico - BUJDOŠ, Marek - MOSNÁČEK, Jaroslav. Properties and degradation performances of biodegradable poly(lactic acid)/poly(3-hydroxybutyrate) blends and keratin

composites. In Polymers : Open Access Polymer Science Journal, 2021, vol. 13, art. no. 2693, [18] p. (2020: 4.329 - IF, Q1 - JCR, 0.770 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4360. Dostupné na: https://doi.org/10.3390/polym13162693

ADCA05 FARKAS, Bence - VOJTKOVÁ, Hana - BUJDOŠ, Marek - KOLENČÍK, Marek - ŠEBESTA, Martin - MATULOVÁ, Michaela - DUBORSKÁ, Eva - DANKO, Martin - KIM, Hyunjung - KUČOVÁ, Kateřina - KISOVÁ, Zuzana - MATÚŠ, Peter - URÍK, Martin**. Fungal Mobilization of Selenium in the Presence of Hausmannite and Ferric Oxyhydroxides. In Journal of Fungi, 2021, vol. 7, art. no. 810, [10] p. (2020: 5.816 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2309-608X. Dostupné na: https://doi.org/10.3390/jof7100810

ADCA06 FARKAS, Bence - BUJDOŠ, Marek - POLÁK, Filip - MATULOVÁ, Michaela - CESNEK, Martin - DUBORSKÁ, Eva - ZVĚŘINA, Ondřej - KIM, Hyunjung - DANKO, Martin - KISOVÁ, Zuzana - MATÚŠ, Peter - URÍK, Martin**. Bioleaching of manganese oxides at different oxidation states by filamentous fungus Aspergillus niger. In Journal of Fungi, 2021, vol. 7, art. no. 808, [15] p. (2020: 5.816 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2309-608X. Dostupné na: https://doi.org/10.3390/jof7100808

ADCA07 FRANKOVSKY, J. - KERESZTESOVÁ, Barbora* - BELLOVÁ, Jana - KUNOVÁ, Nina - ČANIGOVÁ, N. - HANAKOVA, K. - BAUER, Jacob - ONDROVIČOVÁ, Gabriela - LUKÁČOVÁ, Veronika - SIVÁKOVÁ, Barbara - ZDRÁHAL, Zbyněk - PEVALA, Vladimír - PROCHÁZKOVÁ, K. - NOSEK, J. - BARÁTH, Peter** - KUTEJOVÁ, Eva** - TOMAŠKA, Ľubomír**. The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids. In Journal of Biological Chemistry, 2021, vol. 297, no. 4, no. 101155 [16] p. (2020: 5.157 - IF, Q2 - JCR, 2.361 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1016/j.jbc.2021.101155

ADCA08 HADŽEGA, Dominik - MINÁRIK, G. - KARABA, Marián - KALAVSKA, K. - BENCA, Juraj - ČIERNIKOVÁ, Soňa - SEDLÁČKOVÁ, T. - NEMCOVÁ, Petra - BOHÁČ, M. - PINDAK, D. - KĽUČÁR, Ľuboš** - MEGO, M. Uncovering microbial composition in human breast cancer primary tumour tissue using transcriptomic RNA-seq. In International Journal of Molecular Sciences, 2021, vol. 22, no. 9058. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22169058

ADCA09 HALGAŠOVÁ, Nora - KRAJČÍKOVÁ, Daniela - KRAUS, Daniel - BUKOVSKÁ, Gabriela**. The helicase core accessory regions of the phage BFK20 DnaB-like helicase gp43 significantly affect its activity, oligomeric state and DNA binding properties. In Virology, 2021, vol. 558, p. 96-109. (2020: 3.616 - IF, Q3 - JCR, 1.389 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0042-6822. Dostupné na: https://doi.org/10.1016/j.virol.2021.02.016

ADCA10 HAN, H. - ROUND, E. - SCHUBERT, R. - MAKROCZYOVÁ, Jana - BARÁK, Imrich - HAJDU, Janos**. The XBI BioLab for life science experiments at the European XFEL. In Journal of Applied Crystallography, 2021, vol. 54, p. 7–21. (2020: 3.304 - IF, Q2 - JCR, 1.429 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-8898. Dostupné na: https://doi.org/10.1107/S1600576720013989

ADCA11 HAVALOVÁ, Henrieta* - ONDROVIČOVÁ, Gabriela* - KERESZTESOVÁ, Barbora - BAUER, Jacob - PEVALA, Vladimír - KUTEJOVÁ, Eva** - KUNOVÁ, Nina**. Mitochondrial HSP70 chaperone system - the influence of post-translational modifications and involvement in human diseases. In International Journal of

Molecular Sciences, 2021, vol. 22, no. 8077. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22158077

ADCA12 JANÍČKOVÁ, Zuzana - JANEČEK, Štefan**. In silico analysis of fungal and chloride-dependent alpha-amylases within the family GH13 with identification of possible secondary surface-binding sites. In Molecules, 2021, vol. 26, no. 5704. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules26185704

ADCA13 KAPUSTOVÁ, Magdaléna* - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - GRANATA, Giuseppe* - NAPOLI, Edoardo - ANNUŠOVÁ, Adriana - MESÁROŠOVÁ, Monika - KOZICS, Katarína - PANGALLO, Domenico** - GERACI, Coradda**. Biofilm inhibition by biocompatible poly(epsilon-caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. In International Journal of Pharmaceutics, 2021, vol. 606, no. 12, art. no. 120846. (2020: 5.875 - IF, Q1 - JCR, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0378-5173. Dostupné na: https://doi.org/10.1016/j.ijpharm.2021.120846

ADCA14 KISOVÁ, Zuzana - PAVLOVIĆ, Jelena - ŠEFČIKOVÁ, Lucia - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KRAKOVÁ, Lucia - OPÁLKOVÁ ŠIŠKOVÁ, Alena - KLEINOVÁ, Angela - MACHATOVÁ, Zuzana - PANGALLO, Domenico**. Removal of overpainting from an historical painting of the XVIII century: A yeast enzymatic approach. In Journal of Biotechnology, 2021, vol. 335, p. 55-64. (2020: 3.307 - IF, Q2 - JCR, 0.901 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2021.06.008

ADCA15 KOTRASOVÁ, Veronika* - KERESZTESOVÁ, Barbora* - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - HAVALOVÁ, Henrieta - PEVALA, Vladimír - KUTEJOVÁ, Eva** - KUNOVÁ, Nina**. Mitochondrial kinases and the role of mitochondrial protein phosphorylation in health and disease. In Life-Basel, 2021, vol. 11, p. 82. (2020: 3.817 - IF, Q2 - JCR, 0.973 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2075-1729. Dostupné na: https://doi.org/10.3390/life11020082

ADCA16 LABAJOVÁ, Naďa** - BARANOVA, N. - JURÁSEK, M. - VÁCHA, R.** - LOOSE, M. - BARÁK, Imrich**. Cardiolipin-containing lipid membranes attract the bacterial cell division protein divIVA. In International Journal of Molecular Sciences, 2021, vol. 22, no. 8350. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22158350

ADCA17 LEITNER, J. - MAHASONGKRAM, K. - SCHATZLMAIER, P. - PFISTERER, K. - LEKSA, Vladimír - PATA, S. - KASINRERK, W. - STOCKINGER, H.** - STEINBERGER, P.**. Differentiation and activation of human CD4 T cells is associated with a gradual loss of myelin and lymphocyte protein. In European Journal of Immunology, 2021, vol. 51, p. 848-863. (2020: 5.532 - IF, Q2 - JCR, 2.272 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0014-2980. Dostupné na: https://doi.org/10.1002/eji.202048603

ADCA18 MAJTÁN, Juraj** - BUČEKOVÁ, Marcela - JESEŇÁK, M. Natural products and skin diseases. In Molecules, 2021, vol. 26, p. 4489. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules26154489

ADCA19 MAREČEK, Filip - MøLLER, M.S. - SVENSSON, B. - JANEČEK, Štefan**. A

putative novel starch-binding domain revealed by in silico analysis of the N-terminal domain in bacterial amylomaltases from the family GH77. In 3 Biotech, 2021, vol. 11, p. 229. (2020: 2.406 - IF, Q3 - JCR, 0.557 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-021-02787-8

ADCA20 NOVÁKOVÁ, Renáta - RUCKERT, C. - KNIRSCHOVÁ, Renáta - FECKOVÁ, Ľubomíra - BUSCHE, T. - CSÖLLEIOVÁ, Dominika - HOMEROVÁ, Dagmar - REŽUCHOVÁ, Bronislava - JAVOROVÁ, Rachel - ŠEVČÍKOVÁ, Beatrica - KALINOWSKI, J. - KORMANEC, Ján. The linear plasmid pSA3239 is essential for the replication of the Streptomyces lavendulae subsp. lavendulae CCM 3239 chromosome. In Research in Microbiology, 2021, vol. 172, no. 6, no. 103870. (2020: 3.992 - IF, Q2 - JCR, 1.329 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0923-2508. Dostupné na: https://doi.org/10.1016/j.resmic.2021.103870

ADCA21 NOVÁKOVÁ, Slavomíra** - DANCHENKO, Maksym* - OKAJČEKOVÁ, Terézia - BARANOVIČOVÁ, Eva - KOVÁČ, Andrej - GRENDÁR, Marián - BEKE, Gábor - PÁLEŠOVÁ, Janka - STRNÁDEL, Ján - JANÍČKOVÁ, Mária - HALAŠOVÁ, E. - ŠKOVIEROVÁ, Henrieta. Comparative Proteomic and Metabolomic Analysis of Human Osteoblasts, Differentiated from Dental Pulp Stem Cells, Hinted Crucial Signaling Pathways Promoting Osteogenesis. In International Journal of Molecular Sciences, 2021, vol. 22, no. 15, art. no.7908. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22157908

ADCA22 OPÁLKOVÁ ŠIŠKOVÁ, Alena** - BUČKOVÁ, Mária - KRONEKOVÁ, Zuzana - KLEINOVÁ, Angela - NAGY, Štefan - RYDZ, Joanna - OPÁLEK, Andrej - SLÁVIKOVÁ, Monika - ECKSTEIN ANDICSOVÁ, Anita**. The drug-loaded electrospun poly(epsilon-caprolactone) mats for therapeutic application. In Nanomaterials-Basel, 2021, vol. 11, art. no. 922, [19] p. (2020: 5.076 - IF, Q1 - JCR, 0.919 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: https://doi.org/10.3390/nano11040922

ADCA23 OPÁLKOVÁ ŠIŠKOVÁ, Alena** - MOSNÁČKOVÁ, Katarína - HRŮZA, Jakub - FRAJOVÁ, Jaroslava - OPÁLEK, Andrej - BUČKOVÁ, Mária - KOZICS, Katarína - PEER, Petra - ECKSTEIN ANDICSOVÁ, Anita**. Electrospun poly(ethylene terephthalate)/silk fibroin composite for filtration application. In Polymers : Open Access Polymer Science Journal, 2021, vol. 13, art. no. 2499, [23] p. (2020: 4.329 - IF, Q1 - JCR, 0.770 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4360. Dostupné na: https://doi.org/doi.org/10.3390/polym13152499

ADCA24 PAVLOVIĆ, Jelena - CAVALIERI, D. - MASTROMEI, G. - PANGALLO, Domenico - PERITO, B. - MARVASI, M.**. MinION technology for microbiome sequencing applications for the conservation of cultural heritage. In Microbiological Research, 2021, vol. 247, no. 126727. (2020: 5.415 - IF, Q1 - JCR, 1.254 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2021.126727

ADCA25 PLANÝ, Matej - PINZARI, F.** - ŠOLTÝS, K. - KRAKOVÁ, Lucia - CORNISH, L. - PANGALLO, Domenico - JUNGBLUT, A.D. - LITTLE, B. Fungal-induced atmospheric iron corrosion in an indoor environment. In International Biodeterioration & Biodegradation, 2021, vol. 159, no. 105204. (2020: 4.320 - IF, Q2 - JCR, 1.103 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2021.105204

ADCA26 SCHIANO, I. - RACO, S. - CESTONE, E. - JESEŇÁK, M. - RENNEROVÁ, Z. - MAJTÁN, Juraj**. Pleuran-beta-glucan from oyster culinary-medicinal mushroom,

pleurotus ostreatus (Agaricomycetes), soothes and improves skin parameters. In International Journal of Medicinal Mushrooms, 2021, vol. 23, p. 75–83. (2020: 1.921 - IF, Q4 - JCR, 0.471 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1521-9437.

ADCA27 ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - MAZURÁKOVÁ, V. - HOMEROVÁ, Dagmar - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - KORMANEC, Ján**. Cross-recognition of promoters by the nine SigB homologues present in Streptomyces coelicolor A3(2). In International Journal of Molecular Sciences, 2021, vol. 22, no. 7849. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22157849

ADCA28 TRENZ, Thomaz Stumpf - DELAIX, C.L. - TURCHETTO-ZOLET, A.C. - ZÁMOCKÝ, Marcel - LAZZAROTTO, F.** - MARGIS-PINHEIRO, M.**. Going forward and back: the complex evolutionary history of the GPx. In Biology-Basel, 2021, vol. 10, no. 1165. (2020: 5.079 - IF, Q1 - JCR, 1.731 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology10111165

ADCA29 URBAN, J.** - SUCHANKOVA, M. - GANOVSKÁ, M. - LEKSA, Vladimír - SÁNDOR, F. - TEDLOVÁ, E. - KÖNIG, Brian - BUCOVA, E. The role of CX3CL1 and ADAM17 in pathogenesis of diffuse parenchymal lung diseases. In Diagnostics, 2021, vol. 11, no. 1074. (2020: 3.706 - IF, Q2 - JCR, 0.622 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2075-4418. Dostupné na: https://doi.org/10.3390/diagnostics11061074

ADCA30 URBÁNIKOVÁ, Ľubica**. CE16 acetylesterases: in silico analysis, catalytic machinery prediction and comparison with related SGNH hydrolases. In 3 Biotech, 2021, vol. 11, no. 84. (2020: 2.406 - IF, Q3 - JCR, 0.557 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-020-02575-w

ADCA31 ZAIN, Gamal - BUČKOVÁ, Mária - MOSNÁČKOVÁ, Katarína - DOHÁŇOŠOVÁ, Jana - OPÁLKOVÁ ŠIŠKOVÁ, Alena - MIČUŠÍK, Matej - KLEINOVÁ, Angela - MATÚŠ, Peter - MOSNÁČEK, Jaroslav**. Antibacterial cotton fabric prepared by surface-initiated photochemically induced atom transfer radical polymerization of 2-(dimetylamino)ethyl methacrylate with subsequent quaternization. In Polymer Chemistry, 2021, vol. 12, p. 7073-7084. (2020: 5.582 - IF, Q1 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1759-9954.

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 PECINA, Peter - VIDLIČKA, Ľubomír - MAJTÁN, Juraj - PURKART, Adrián - PROKOP, Pavol**. Why do zombies clean themselves? An initial test of the antimicrobial hypothesis in a parasite-host relationship. In Biologia, 2021, vol. 76, p. 2303–2307. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00694-0

ADDA02 ŽENIŠOVÁ, K.** - CABICAROVÁ, T. - SIDARI, R. - KOLEK, Emil - PANGALLO, Domenico - SZEMEŠ, T. - KUCHTA, T. Effects of co-fermentation with Lachancea thermotolerans or Metschnikowia pulcherrima on concentration of aroma compounds in Pinot Blanc wine. In Journal of Food and Nutrition Research, 2021, vol. 60, p. 87–91. (2020: 1.333 - IF, Q4 - JCR, 0.312 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1336-8672.

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

ADMA01 BUGÁROVÁ, Veronika - GODOČÍKOVÁ, Jana - BUČEKOVÁ, Marcela - BRODSCHNEIDER, R. - MAJTÁN, Juraj**. Effects of the carbohydrate sources nectar, sucrose and invert sugar on antibacterialactivity of honey and bee-processed syrups. In Antibiotics, 2021, vol. 10, no. 985. (2020: 4.639 - IF, Q2 - JCR, 0.960 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics10080985

ADMA02 HRIC, Ivan - UGRAYOVÁ, S. - PENESOVÁ, Adela - RÁDIKOVÁ, Žofia - KUBÁŇOVÁ, Libuša - ŠARDZÍKOVÁ, S. - BARANOVIČOVÁ, Eva - KĽUČÁR, Ľuboš - BEKE, Gábor - GRENDÁR, M. - KOLISEK, M. - ŠOLTÝS, K. - BIELIK, V.**. The Efficacy of short-term weight loss programs and consumption of natural probiotic bryndza cheese on gut microbiota composition in women. In Nutrients, 2021, vol. 13, no. 1753. (2020: 5.719 - IF, Q1 - JCR, 1.418 - SJR, Q1 - SJR). ISSN 2072-6643. Dostupné na: https://doi.org/10.3390/nu13061753

ADMA03 KAPUSTOVÁ, Magdaléna* - GRANATA, Giuseppe* - NAPOLI, Edoardo - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - PANGALLO, Domenico** - GERACI, C.**. Nanoencapsulated essential oils with enhanced antifungal activity for potential application on agri-food, material and environmental fields. In Antibiotics, 2021, vol. 10, no. 31. (2020: 4.639 - IF, Q2 - JCR, 0.960 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics10010031

ADMA04 KRAJČÍKOVÁ, Daniela - BUGÁROVÁ, Veronika - BARÁK, Imrich**. Interactions of bacillus subtilis basement spore coat layer proteins. In Microorganisms, 2021, vol. 9, p. 285. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms9020285

ADMA05 LAHO, Maroš - ŠEDIVÁ, Mária - MAJTÁN, Juraj - KLAUDINY, Jaroslav**. Fructose and trehalose selectively enhance in vitro sporulation of Paenibacillus larvae ERIC I and ERIC II strains. In Microorganisms, 2021, vol. 9, art. no. 225 [15] p. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms9020225

ADMA06 LAZZAROTTO, F.** - MENGUER, P.K.** - DEL-BEM, L.-E.** - ZÁMOCKÝ, Marcel** - MARGIS-PINHEIRO, M.**. Ascorbate peroxidase neofunctionalization at the origin of APX-R and APX-L: evidence from basal archaeplastida. In Antioxidants, 2021, vol. 10, p. 597. (2020: 6.313 - IF, Q1 - JCR, 1.067 - SJR, Q2 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox10040597

ADMA07 MAJTÁN, Juraj** - BUČEKOVÁ, Marcela - KAFANTARIS, I. - SZWEDA, P. - HAMMER, K. - MOSSIALOS, D. Honey antibacterial activity: A neglected aspect of honey quality assurance as functional food. In Trends in Food Science and Technology, 2021, vol. 118, p. 870-886. (2020: 12.563 - IF, Q1 - JCR, 2.676 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0924-2244. Dostupné na: https://doi.org/10.1016/j.tifs.2021.11.012

ADMA08 MAJTÁNOVÁ, Nora** - KRISKOVA, P. - KERI, P. - FELLNER, Z. - MAJTÁN, Juraj - KOLAR, P. Herpes simplex keratitis in patients with SARS-CoV-2 infection: a series of five cases. In Medicina, 2021, vol. 57, p. 412. (2020: 2.430 - IF, Q2 - JCR, 0.530 - SJR, Q3 - SJR). ISSN 1010-660X. Dostupné na: https://doi.org/10.3390/medicina57050412

ADMA09 MARVASI, M.** - PANGALLO, Domenico - CAVALIERI, D. - POYATOS-JIMÉNEZ 3, F. Editorial: Multi-Omics Revolution in Microbial Cultural Heritage Conservation. In Frontiers in Microbiology, 2021, vol. 12, no. 720509. (2020: 5.640 - IF, Q1 - JCR, 1.701 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na:

https://doi.org/10.3389/fmicb.2021.720509

ADMA10 SIDARI, R.** - ŽENIŠOVÁ, K. - TOBOLKOVÁ, B. - BELAJOVÁ, E. - CABICAROVÁ, T. - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - PLANÝ, Matej - KUCHTA, T. - PANGALLO, Domenico**. Wine yeasts selection: laboratory characterization and protocol review. In Microorganisms, 2021, vol. 9, no. 2223. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms9112223

ADMA11 ŠIMONOVIČOVÁ, A. - VOJTKOVÁ, Hana - NOSALJ, Sanja - PIECKOVÁ, E. - ŠVEHLÁKOVÁ, H. - KRAKOVÁ, Lucia - DRAHOVSKÁ, H. - STALMACHOVÁ, B. - KUČOVÁ, K. - PANGALLO, Domenico**. Aspergillus niger environmental isolates and their specific diversity through metabolite profiling. In Frontiers in Microbiology, 2021, vol. 12, no. 658010. (2020: 5.640 - IF, Q1 - JCR, 1.701 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2021.658010

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 JAVOROVÁ, Rachel - NOVÁKOVÁ, Renáta - KORMANEC, Ján. Stratégia aktivácie silentných génových klastrov pre biologicky aktívne. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 198-203. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)

AFD02 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - KAJSIKOVÁ, Mária - BUKOVSKÁ, Gabriela. Identifikácia SLT domény proteínu gp15 bakteriofága BFK20 s vlastnosťou degradácie peptidoglykánu. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 364-369. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)

AFD03 PECINA, Peter - PROKOP, Pavol - VIDLIČKA, Ľubomír - MAJTÁN, Juraj - PECINA, Lukáš - HROMNÍKOVÁ, Dominika - KLÖCKLEROVÁ, Vanda. Samočistenie švábov vyvolané vpichnutím neurotoxínu parazitoidnou osou = Self-cleaning of cockroaches induced by neurotoxin injection by the parasitoid wasp. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 382-387. ISBN 978-80-223-5132-4. (VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába Ectobius vittiventris (Blattaria) na Slovensku. VEGA 2/0074/21 : Invázny švábik Planuncus tingitanus (Blattaria) na Slovensku - šírenie, ekológia a etológia.. Študentská vedecká konferencia PriF UK 2021)

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 URBÁNIKOVÁ, Ľubica. Protein as the main variable in crystallization. In Abstract book of 9th FEBS practical crystallization course - Advanced methods in macromolecular crystallization IX : České Budějovice, Czech Republic, 2021, FEBS Practical Course, p. 16.

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 BARÁK, Imrich - MUCHOVÁ, Katarína - KALOCSAIOVÁ, Evelína - POSPÍŠIL, J. - CHROMÍKOVÁ, Zuzana - KRÁSNY, L. Nucleoid organization as a cue of asymmetric septum positioning in Bacillus subtilis. In 26. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : Programme and Abstract Book. - Praha : Venice, 2021, p. 40. ISBN 978-80-907779-1-0. (Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section)

AFG02 ECKSTEIN ANDICSOVÁ, Anita - OPÁLKOVÁ ŠIŠKOVÁ, Alena - BUČKOVÁ, Mária - KRONEKOVÁ, Zuzana - OPÁLEK, Andrej - KOZMA, Erika. DICLOFENAC LOADED ELECTROSPUN POLY(E-CAPROLACTONE) MATS FOR THERAPEUTIC APPLICATION. In 3-rd E-Meeting on Polymer Science & Biomaterials : [abstract book], November 8-9, 2021, virtual conference. - Greenville, USA : Coalesce Research Group, 2021, p. 25.

AFG03 HADŽEGA, Dominik** - KALAVSKA, K. - KARABA, Marián - MINÁRIK, Gabriel - BENCA, Juraj - ČIERNIKOVÁ, Soňa - SEDLÁČKOVÁ, Tatiana - PINĎÁK, Daniel - KĽUČÁR, Ľuboš - MEGO, Michal. Use of Galaxy tools for microbiome analysis of breast cancer RNA-seq transcriptomic data. In Abstract book of 2021 Galaxy Community Conference : Virtual Meeting, Ghent 2021, p. 3.

AFG04 HALGAŠOVÁ, Nora - BUKOVSKÁ, Gabriela. Three charged amino acid residues at the extreme C-terminus of the BFK20 gp41 helicase play a role in the ATPase activity of the protein. In Helicases and Nucleic Acid-Based Machines: Structure, Mechanism and Regulation and Roles in Human Disease : Book of Abstracts [elektronický zdroj], p. 22.

AFG05 CHROMÍKOVÁ, Zuzana - KALIANKOVÁ-CHOVANOVÁ, R. - TAMINDŽIJA, D. - BÁRTOVÁ, B. - RADNOVIĆ, D. - BERNIER-LATMANI, R. - BARÁK, Imrich. Microbial strategies to fight chromate stress. In 26. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : Programme and Abstract Book. - Praha : Venice, 2021, p. 132. ISBN 978-80-907779-1-0. (Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section)

AFG06 JANEČEK, Štefan. Alpha-amylase GH families and starch-binding domain CBM families in CAZy: in silico studies. In Abstract book of Third Meeting & First Workshop of the Argentine Network of Enzymatic Technology : Rosario, Argentina 2021, p. 24.

AFG07 JAVOROVÁ, Rachel - NOVÁKOVÁ, Renáta - KNIRSCHOVÁ, Renáta - KORMANEC, Ján. Activation strategy for silent secondary metabolite gene clusters in Streptomyces. In 26. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : Programme and Abstract Book. - Praha : Venice, 2021, p. 137. ISBN 978-80-907779-1-0. (Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section)

AFG08 KORMANEC, Ján - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - MATULOVA, M. - CSÖLLEIOVÁ, Dominika - JAVOROVÁ, Rachel - HOMEROVÁ, Dagmar - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica. Characterization of biosynthesis and regulation of the aromatic polyketide antibiotic auricin in Streptomyces lavendulae subsp. lavendulae CCM 3239. In 26. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology

with cooperation of Austrian and German Biochemical Section : Programme and Abstract Book. - Praha : Venice, 2021, p. 146. ISBN 978-80-907779-1-0. (Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section)

AFG09 KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - KOTRASOVÁ, Veronika - KERESZTESOVÁ, Barbora - HAVALOVÁ, Henrieta - BAUER, Jacob - KUTEJOVÁ, Eva - PEVALA, Vladimír. The phosphorylation of human Lon protease ? a key component of protein quality control in mitochondria. In 26. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : Programme and Abstract Book. - Praha : Venice, 2021, p. 59. ISBN 978-80-907779-1-0. (Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section)

AFG10 NOVÁKOVÁ, Renáta - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - KNIRSCHOVÁ, Renáta - ŠEVČÍKOVÁ, Beatrica - JAVOROVÁ, Rachel - FECKOVÁ, Ľubomíra - KORMANEC, Ján. A stable vector based on linear plasmid pSA3239 for production of heterologous proteins and secondary metabolites in streptomycetes. In 26. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section : Programme and Abstract Book. - Praha : Venice, 2021, p. 160. ISBN 978-80-907779-1-0. (Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section)

AFG11 OPÁLKOVÁ ŠIŠKOVÁ, Alena - FRAJOVÁ, Jaroslava - HRŮZA, Jakub - OPÁLEK, Andrej - BUČKOVÁ, Mária - KOZICS, Katarína - GALEOTTI, Francesco - ECKSTEIN ANDICSOVÁ, Anita. MEMBRANES FROM POST-CONSUMER POLY(ETHYLENETEREPHTHALATE)/SILK FIBROIN MIXTURE FOR FILTRATION. In 3-rd E-Meeting on Polymer Science & Biomaterials : [abstract book], November 8-9, 2021, virtual conference. - Greenville, USA : Coalesce Research Group, 2021, p. 23-24.

AFG12 ZÁMOCKÝ, Marcel - POLJOVKA, Andrej. Differences within four heme peroxidase superfamilies in the reactivity with phenolic compounds. In 14th World Congress on Polyphenols Applications 2021 : online only, Germany 2021, p. 24.

AFH Abstrakty príspevkov z domácich konferencií

AFH01 AMBRO, Ľ. - LINK, R. - KAMLÁROVÁ, Anna - KĽUČÁR, Ľuboš - HADŽEGA, Dominik - PEVALA, Vladimír - PANTŮČEK, R. - VRBOVSKÁ, V. - STROJNÝ, R. Multiplatformové sekvenovanie nového probiotického kmeňa Lactiplantibacillus plantarum LS/07 pre stanovenie jeho genetickej bezpečnosti. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2248. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)

AFH02 FRAJOVÁ, Jaroslava - OPÁLKOVÁ ŠIŠKOVÁ, Alena - MOSNÁČKOVÁ, Katarína - HRUZA, Jakub - BUČKOVÁ, Mária - OPÁLEK, Andrej - KLEINOVÁ, Angela - ECKSTEIN ANDICSOVÁ, Anita - HOLKOVÁ, Zuzana. Recycled bottle-grade PET used in personal protection. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2247. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA. Interaktívna konferencia mladých vedcov 2021 : PREVEDA)

AFH03 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - KAJSIKOVÁ, Mária -

BUKOVSKÁ, Gabriela. Charakterizácia proteínových derivátov s lytickou doménou SLT pôvodom z proteínu gp15 korynefága BFK20. In PREVEDA : interaktívna konferencia mladých vedcov 2021. Book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2021, abstract no. 2188. ISBN 978-80-972360-7-6. (Interaktívna konferencia mladých vedcov 2021 : PREVEDA)

AFH04 SARDZIKOVÁ, S. - UGRAYOVÁ, S. - HRIC, I. - ŠVEC, P. - BIELIK, V. - KĽUČÁR, Ľuboš - BEKE, Gábor - KORENOVÁ, A. - ŠOLTÝS, K. Zmena črevnej bakteriálnej komunity predtransplantačnou liečbou u pediatrických onkologických pacientov. In Mikroorganismy okolo nás II : on-line, Slovakia 2021, p. 30. ISBN ISBN 978-80-973411-3-8.

AFH05 TAMAS, K. - KONEČNÁ, B. - POTOCAROVA, A. - KRIVNJANSKA, A. - STRECANSKY, T. - KĽUČÁR, Ľuboš - MACKUĽAK, T. Monitoring SARS-CoV-2 v odpadových vodách pomocou sekvenovania 3. generácie. In Mikroorganismy okolo nás II : on-line, Slovakia 2021, p. 28. ISBN ISBN 978-80-973411-3-8.

AFH06 TAMAS, K. - KONEČNÁ, B. - POTOCAROVA, A. - KRIVNJANSKA, A. - STRECANSKY, T. - KĽUČÁR, Ľuboš - MACKUĽAK, T. Monitoring SARS-CoV-2 v odpadových vodách pomocou sekvenovania 3. generácie. In Rekonštrukcie stokových sietí a čistarní odpadových vôd : Zborník abstraktov, s. 53. ISBN 978-80-89740-34-5.

AFK Postery zo zahraničných konferencií

AFK01 AMBRO, Ľuboš - LUKÁČOVÁ, Magdaléna - HADŽEGA, Dominik - LINK, R. - KĽUČÁR, Ľuboš - DANCHENKO, Maksym - BARÁTH, Peter. Cryptic plasmids of the Lactiplantibacillus plantarum LS/07 probiotic co-determine its membrane-associated proteome and secreted proteome. In Tomáškovy dny 2021 : XXX. konference mladých mikrobiologů. - Brno : Masarykova univerzita, 2021, p. P01. ISBN 978-80-210-9882-4. (Konference mladých mikrobiologů)

AFK02 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - PSENKO, M. - BUKOVSKÁ, Gabriela. Rekombinantný endolyzín EN534-C ako potenciálny bioagens s exolytickou aktivitou voči vaginálnym streptokokom. In Tomáškovy dny 2021 : XXX. konference mladých mikrobiologů. - Brno : Masarykova univerzita, 2021. ISBN 978-80-210-9882-4. (Konference mladých mikrobiologů)

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

FAI01 Biologia. Editors [2007-] Štefan Janeček, [2009, 2013-] Mária Kazimírová, [2018-] Katarína Hegedüšová Vantarová, [managing editor Section Botany: 2017-] František Hindák, [2000-2017] Igor Mistrík. Cham : Springer International Publishing, 2018-. Copyrith a vlastník: Centrum biologie a rastlin a biodiverzity SAV, Ústav zoológie SAV, Ústav molekulárnej biológie SAV. 12 x ročne. ISSN 0006-3088

Ohlasy (citácie):

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 REBETS, Y. - KORMANEC, Ján - LUZHETSKYY, A. - BERNAERTS, K. - ANNÉ, J. Cloning and expression of metagenomic DNA in Streptomyces lividans and subsequent fermentation for optimized production. In Metagenomics : methods and Protocols. - New York : Springer, 2017, p. 99-144. (2016: 0.585 - SJR, Q3 - SJR). (2017 - SCOPUS). ISBN 978-1-4939-6689-9. Dostupné na:

https://doi.org/10.1007/978-1-4939-6691-2_8

Citácie:

1. [1.1] WILTSCHI, B. - CERNAVA, T. - DENNIG, A. - CASAS, M.G. - GEIER, M. - GRUBER, S. - HABERBAUER, M. - HEIDINGER, P. - ACERO, E.H. - KRATZER, R. - LULEY-GOEDL, C. - MULLER, C.A. - PITZER, J. - RIBITSCH, D. - SAUER, M. - SCHMOLZER, K. - SCHNITZHOFER, W. - SENSEN, C.W. - SOH, J. - STEINER, K. - WINKLER, C.K. - WINKLER, M. - WRIESSNEGGER, T. Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, MAY-JUN 2020, vol. 40., Registrované v: WOS

2. [1.1] WU, F.F. - HU, S.P. - RAN, Y. - CHEN, X.N. - LIN, S. Gene Mining and Sequence Analysis of Purine Nucleosidase Based on RNA-Seq. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. ISSN 1940-087X, OCT 2020, no. 164., Registrované v: WOS

ABC02 URZI, C. - DE LEO, F. - BRUNO, L. - PANGALLO, Domenico - KRAKOVÁ, Lucia. New species description, biomineralization processes and biocleaning applications of Roman catacombs-living bacteria. In Conservation of subterranean cultural heritage. - CRC Press-Taylor & Francis Group, 2014, p. 65-72. ISBN 978-1-315-73997-7.

Citácie:

1. [1.1] CANEVA, G. - ISOLA, D. - LEE, H.J. - CHUNG, Y.J. Biological Risk for Hypogea: Shared Data from Etruscan Tombs in Italy and Ancient Tombs of the Baekje Dynasty in Republic of Korea. In APPLIED SCIENCES-BASEL. SEP 2020, vol. 10, no. 17, 6104, Registrované v: WOS

ABC03 ZÁMOCKÝ, Marcel - OBINGER, C. Molecular phylogeny of heme peroxidases. In Biocatalysis based on heme peroxidases. - New York : Springer, 2010, p. 7-35. ISBN 978-3-642-12626-0.

Citácie:

1. [1.1] ABDULAAL, W.H. - ALMULAIKY, Y.Q. - EL-SHISHTAWY, R.M. Encapsulation of HRP Enzyme onto a Magnetic Fe3O4 Np-PMMA Film via Casting with Sustainable Biocatalytic Activity. In CATALYSTS. FEB 2020, vol. 10, no. 2., Registrované v: WOS

2. [1.1] BILAL, M. - ASHRAF, S.S. - FERREIRA, L.F.R. - CUI, J.D. - LOU, W.Y. - FRANCO, M. - IQBAL, H.M.N. Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 1 2020, vol. 162, p. 1906-1923., Registrované v: WOS

3. [1.1] GARCIA-ULLOA, A. - SANJURJO, L. - CIMINI, S. - ENCINA, A. - MARTINEZ-RUBIO, R. - BOUZA, R. - BARRAL, L. - ESTEVEZ-PEREZ, G. - NOVO-UZAL, E. - DE GARA, L. - POMAR, F. Overexpression of ZePrx in Nicotiana tabacum Affects Lignin Biosynthesis Without Altering Redox Homeostasis. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, JUN 26 2020, vol. 11., Registrované v: WOS

4. [1.1] LYALL, R. - NIKOLOSKI, Z. - GECHEV, T. Comparative Analysis of ROS Network Genes in Extremophile Eukaryotes. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2020, vol. 21, no. 23., Registrované v: WOS

5. [1.1] NAFISA - SHOAIB, A. - IQBAL, J. - KHAN, K.A. Evaluation of phenotypic, physiological and biochemical attributes connected with resistance in tomato against Alternaria solani. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, MAY 5 2020, vol. 42, no. 5., Registrované v: WOS

6. [1.1] OLIVEIRA, R.A.D. - DE ANDRADE, A.S. - IMPARATO, D.O. - DE LIMA, J.G.S. - DE ALMEIDA, R.V.M. - LIMA, J.P.M.S. - PASQUALI, M.A.D. - DALMOLIN, R.J.S. Analysis of Arabidopsis thaliana Redox Gene Network Indicates Evolutionary Expansion of Class III Peroxidase in Plants. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 31 2019, vol. 9., Registrované v: WOS

7. [1.1] SAHRMANN, P.G. - DONNAN, P.H. - MERZ, K.M. - MANSOORABADI, S.O. - GOODWIN, D.C. MRP.py: A Parametrizer of Post-Translationally Modified Residues. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, OCT 26 2020, vol. 60, no. 10, p. 4424-4428., Registrované v: WOS

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB01 ŠIMONOVIČOVÁ, A. - PIECKOVÁ, E. - FERIANC, Peter - HANAJÍK, Peter - HORVÁTH, Rozália. Environmentálna mikrobiológia. Rec. Z. Bedrna, I. Čižnár, H. Vojtková. Bratislava : Univerzita Komenského, 2013. ISBN 978-80-223-3382-5

Citácie:

1. [1.1] BOTUROVA, K. Microbiota as an indicator of the environmental burden of mined-out sites. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444., Registrované v: WOS

2. [1.1] PAVLIKOVA, M. Microbial degradation of wool industry wastewater. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444., Registrované v: WOS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ALSTON, R.W. - URBÁNIKOVÁ, Ľubica - ŠEVČÍK, Jozef - LASAGNA, M. - REINHOLD, G. - SCHOLTZ, J.M. - PACE, C.N. Contribution of single tryptophan residues to the fluorescence and stability of ribonuclease Sa. In Biophysical Journal, 2004, vol. 87, p. 4036-4047. ISSN 0006-3495.

Citácie:

1. [1.1] AUGUSTIJN, D. - KULAKOVA, A. - MAHAPATRA, S. - HARRIS, P. - RINNAN, A. Isothermal Chemical Denaturation: Data Analysis, Error Detection, and Correction by PARAFAC2. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, MAY 19 2020, vol. 92, no. 10, p. 6958-6967., Registrované v: WOS

2. [1.1] GUPTA, P. - KHAN, F.I. - AMBREEN, D. - LAI, D.K. - ALAJMI, M.F. - HUSSAIN, A. - ISLAM, A. - AHMAD, F. - HASSAN, M.I. Investigation of guanidinium chloride-induced unfolding pathway of sphingosine kinase 1. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, MAR 15 2020, vol. 147, p. 177-186., Registrované v: WOS

3. [1.1] GUPTA, P. - KHAN, F.I. - ROY, S. - ANWAR, S. - DAHIYA, R. - ALAJMI, M.F. - HUSSAIN, A. - REHMAN, M.T. - LAI, D.K. - HASSAN, M.I. Functional implications of pH-induced conformational changes in the Sphingosine kinase 1. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, JAN 15 2020, vol. 225., Registrované v: WOS

4. [1.1] KHAN, F.I. - GUPTA, P. - ROY, S. - AZUM, N. - ALAMRY, K.A. - ASIRI, A.M. - LAI, D.K. - HASSAN, M.I. Mechanistic insights into the urea-induced denaturation of human sphingosine kinase 1. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, OCT 15 2020, vol. 161, p. 1496-1505., Registrované v: WOS

ADCA02 AMBRO, Ľuboš - PEVALA, Vladimír - BAUER, Jacob - KUTEJOVÁ, Eva. The influence of ATP-dependent proteases on a variety of nucleoid-associated processes. In Journal of Structural Biology, 2012, vol. 179, p. 181–192. (2011: 3.406 - IF, Q2 - JCR, 2.119 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2012.05.018

Citácie:

1. [1.1] YANG, S.H. - FRANDEN, M.A. - WANG, X. - CHOU, Y.C. - HU, Y. - BROWN, S.D. - PIENKOS, P.T. - ZHANG, M. Transcriptomic Profiles of Zymomonas mobilis 8b to Furfural Acute and Long-Term Stress in Both Glucose and Xylose Conditions. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, JAN 23 2020, vol. 11, 13, Registrované v: WOS

ADCA03 ARA, K.Z.G.** - MåNBERGER, A. - GABRIŠKO, Marek - LINARES-PASTÉN, J.A. - JASILIONIS, A. - FRIðJÓNSSON, O.H. - HREGGVIðSSON, G.O. - JANEČEK, Štefan - KARLSSON, E.N.**. Characterization and diversity of the complete set of GH family 3 enzymes from Rhodothermus marinus DSM 4253. In Scientific Reports, 2020, vol. 10, no. 1329. (2019: 3.998 - IF, Q1 - JCR, 1.341 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-020-58015-5

Citácie:

1. [1.1] LIEW, K.J. - BRUCE, N.C. - SANI, R.K. - CHONG, C.S. - YAAKOP, A.S. - SHAMSIR, M.S. - GOH, K.M. Global Transcriptomic Responses ofRoseithermus saccharipHilusStrain RA in Media Supplemented with Beechwood Xylan. In MICROORGANISMS. JUL 2020, vol. 8, no. 7, 976., Registrované v: WOS

ADCA04 BALIOVÁ, Martina - BETZ, H. - JURSKÝ, František. Calpain-mediated proteolytic cleavage of the neuronal glycine transporter, GlyT2. In Journal of Neurochemistry, 2004, vol. 88, p. 227-232. (2003: 4.825 - IF). ISSN 0022-3042.

Citácie:

1. [1.1] MARQUES, B.L. - OLIVEIRA-LIMA, O.C. - CARVALHO, G.A. - CHIARELLI, R.D. - RIBEIRO, R.I. - PARREIRA, R.C. - FREITAS, E.M.D. - RESENDE, R.R. - KLEMPIN, F. - ULRICH, H. - GOMEZ, R.S. - PINTO, M.C.X. Neurobiology of glycine transporters: From molecules to behavior. In NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. ISSN 0149-7634, NOV 2020, vol. 118, p. 97-110., Registrované v: WOS

ADCA05 BALIOVÁ, Martina** - JURSKÝ, František**. Phosphomimetic mutation of glycine transporter glyT1 C-terminal PDZ binding motif inhibits its interactions with PSD95. In Journal of Molecular Neuroscience, 2020, vol. 70, p. 488–493. (2019: 2.678 - IF, Q3 - JCR, 0.861 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0895-8696. Dostupné na: https://doi.org/10.1007/s12031-019-01435-4

Citácie:
1. [1.1] GOGL, G. - JANE, P. - CAILLET-SAGUY, C. - KOSTMANN, C. - BICH, G. - COUSIDO-SIAH, A. - NYITRAY, L. - VINCENTELLI, R. - WOLFF, N. - NOMINE, Y. - SLUCHANKO, N.N. - TRAVE, G. Dual Specificity PDZ- and 14-3-3-Binding Motifs: A Structural and Interactomics Study. In STRUCTURE. ISSN 0969-2126, JUL 7 2020, vol. 28, no. 7, p. 747-+., Registrované v: WOS
2. [1.1] MARQUES, B.L. - OLIVEIRA-LIMA, O.C. - CARVALHO, G.A. - CHIARELLI, R.D. - RIBEIRO, R.I. - PARREIRA, R.C. - FREITAS, E.M.D. - RESENDE, R.R. - KLEMPIN, F. - ULRICH, H. - GOMEZ, R.S. - PINTO, M.C.X. Neurobiology of glycine transporters: From molecules to behavior. In NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. ISSN 0149-7634, NOV 2020, vol. 118, p. 97-110., Registrované v: WOS

ADCA06 BALIOVÁ, Martina - JUHÁSOVÁ, Anna - JURSKÝ, František. Using a collection of MUPP1 domains to investigate the similarities of neurotransmitter transporters C-terminal PDZ motifs. In Biochemical and biophysical research communications, 2014, vol. 454, p. 25–29. (2013: 2.281 - IF, Q3 - JCR, 1.270 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-291X. Dostupné na: https://doi.org/10.1016/j.bbrc.2014.10.011

Citácie:
1. [1.1] EAR, J. - SAKLECHA, A. - RAJAPAKSE, N. - CHOI, J. - GHASSEMIAN, M. - KUFAREVA, I. - GHOSH, P. Tyrosine-Based Signals Regulate the Assembly of Daple.PARD3 Complex at Cell-Cell Junctions. In ISCIENCE. FEB 21 2020, vol. 23, no. 2., Registrované v: WOS

ADCA07 BARÁK, Imrich - WILKINSON, A.J. Division site recognition in Escherichia coli and Bacillus subtilis. In FEMS Microbiology Reviews : Vol. 31, no. 3 (2007), pp. 311-326. ISSN 0168-6445.

Citácie:
1. [1.1] SINGHI, D. - SRIVASTAVA, P. How similar or dissimilar cells are produced by bacterial cell division?. In BIOCHIMIE. ISSN 0300-9084, SEP 2020, vol. 176, p. 71-84., Registrované v: WOS
2. [1.1] ZOHA, S. - AHMAD, M. - ZAIDI, S.J.A. - ASHIQ, M.N. - AHMAD, W. - PARK, T.J. - BASIT, M.A. ZnO-based mutable Ag2S/Ag2O multilayered architectures for organic dye degradation and inhibition of E. coli and B. subtilis. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, MAY 1 2020, vol. 394, 112472, Registrované v: WOS

ADCA08 BARÁK, Imrich - BEHARI, J. - OLMEDO, G. - GUZMÁN, P. - CASTRO, E. - BROWN, D.P. - WALKER, D. - WESTPHELING, J. - YOUNGMAN, P. Structure and function of the Bacillus SpoIIE protein and its localization to sites of sporulation septum assembly. In Molecular Microbiology, 1996, vol. 19, p. 1047-1060. ISSN 0950-382X.

Citácie:
1. [1.1] DIALLO, M. - HOCQ, R. - COLLAS, F. - CHARTIER, G. - WASELS, F. - WIJAYA, H.S. - WERTEN, M.W.T. - WOLBERT, E.J.H. - KENGEN, S.W.M. - VAN DER OOST, J. - FERREIRA, N.L. - LOPEZ-CONTRERAS, A.M. Adaptation and application of a two-plasmid inducible CRISPR-Cas9 system in Clostridium beijerinckii. In METHODS. ISSN 1046-2023, FEB 1 2020, vol. 172, p. 51-60., Registrované v: WOS

ADCA09 BARÁK, Imrich - MUCHOVÁ, Katarína - WILKINSON, A.J. - TOOLE, O. - PAVLENDOVÁ, Naďa. Lipid spirals in Bacillus subtilis and their role in cell division. In Molecular Microbiology, 2008, vol. 68, p. 1315-1327. (2007: 5.462 - IF, Q1 - JCR, 3.868 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0950-382X.

Citácie:
1. [1.1] BREWER, W. - HARRISON, J. - SAITO, H.E. - FOZO, E.M. Induction of Daptomycin Tolerance in Enterococcus faecalis by Fatty Acid Combinations. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, OCT 2020, vol. 86, no. 20., Registrované v: WOS
2. [1.1] GRAY, D.A. - WENZEL, M. More Than a Pore: A Current Perspective on the In Vivo Mode of Action of the Lipopeptide Antibiotic Daptomycin. In ANTIBIOTICS-BASEL. JAN 2020, vol. 9, no. 1., Registrované v: WOS
3. [1.1] NICKELS, J.D. - POUDEL, S. - CHATTERJEE, S. - FARMER, A. - CORDNER, D. - CAMPAGNA, S.R. - GIANNONE, R.J. - HETTICH, R.L. - MYLES, D.A.A. - STANDAERT, R.F. - KATSARAS, J. - ELKINS, J.G. Impact of Fatty-Acid Labeling of Bacillus subtilis Membranes on the Cellular Lipidome and Proteome. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, MAY 15 2020, vol. 11., Registrované v: WOS

ADCA10 BARÁK, Imrich - YOUNGMAN, P. SpoIIE mutants of Bacillus subtilis comprises two distinct phenotypic classes consistent with a dual functional role for the SpoIIE protein. In Journal of Bacteriology, 1996, vol. 178, p. 4984-4989. ISSN 0021-9193.

Citácie:
1. [1.1] DIALLO, M. - HOCQ, R. - COLLAS, F. - CHARTIER, G. - WASELS, F. - WIJAYA, H.S. -

WERTEN, M.W.T. - WOLBERT, E.J.H. - KENGEN, S.W.M. - VAN DER OOST, J. - FERREIRA, N.L. - LOPEZ-CONTRERAS, A.M. Adaptation and application of a two-plasmid inducible CRISPR-Cas9 system in Clostridium beijerinckii. In METHODS. ISSN 1046-2023, FEB 1 2020, vol. 172, p. 51-60., Registrované v: WOS
2. [1.1] DIALLO, M. - KINT, N. - MONOT, M. - COLLAS, F. - MARTIN-VERSTRAETE, I. - VAN DER OOST, J. - KENGEN, S.W.M. - LOPEZ-CONTRERAS, A.M. Transcriptomic and Phenotypic Analysis of aspoIIEMutant inClostridium beijerinckii. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 15 2020, vol. 11, 556064., Registrované v: WOS
3. [1.1] KHANNA, K. - LOPEZ-GARRIDO, J. - POGLIANO, K. Shaping an Endospore: Architectural Transformations During Bacillus subtilis Sporulation. In ANNUAL REVIEW OF MICROBIOLOGY, VOL 74, 2020. ISSN 0066-4227, 2020, vol. 74, p. 361-386., Registrované v: WOS

ADCA11 BARÁK, Imrich - RICCA, E. - CUTTING, S.M. From fundamental studies of sporulation to applied spore research. In Molecular Microbiology, 2005, vol. 55, p. 330-338. ISSN 0950-382X.

Citácie:
1. [1.2] OKADA, Masahiro - SUMIMOTO, Shimpei. Bacillus Quorum Sensing Pheromones: ComX and Phr. In ACS Symposium Series. ISSN 00976156, 2020-01-01, 1374, pp. 201-217., Registrované v: SCOPUS

ADCA12 BARÁK, Imrich - MUCHOVÁ, Katarína. The role of lipid domains in bacterial cell processes. In International Journal of Molecular Sciences, 2013, vol. 14, p. 4050-4065. (2012: 2.464 - IF, Q2 - JCR, 0.770 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms14024050

Citácie:
1. [1.1] BETECK, R.M. - JORDAAN, A. - SWART, T. - VAN DER KOOY, F. - WARNER, D.F. - HOPPE, H.C. - LEGOABE, L.J. 6-Nitro-1-benzylquinolones exhibiting specific antitubercular activity. In CHEMICAL BIOLOGY & DRUG DESIGN. ISSN 1747-0277, DEC 2020, vol. 96, no. 6, p. 1387-1394., Registrované v: WOS
2. [1.1] BRIAUD, P. - CARROLL, R.K. Extracellular Vesicle Biogenesis and Functions in Gram-Positive Bacteria. In INFECTION AND IMMUNITY. ISSN 0019-9567, DEC 2020, vol. 88, no. 12, e00433-20, Registrované v: WOS
3. [1.1] ESTELLE, D. - LAURENCE, L. - MARC, O. - CAROLINE, D. - MAGALI, D. - MARIE-LAURE, F. Linolenic fatty acid hydroperoxide acts as biocide on plant pathogenic bacteria: Biophysical investigation of the mode of action. In BIOORGANIC CHEMISTRY. ISSN 0045-2068, JUL 2020, vol. 100, 103877, Registrované v: WOS
4. [1.1] LELLMAN, S.E. - CRAMER, R. Bacterial identification by lipid profiling using liquid atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry. In CLINICAL CHEMISTRY AND LABORATORY MEDICINE. ISSN 1434-6621, JUN 2020, vol. 58, no. 6, SI, p. 930-938., Registrované v: WOS
5. [1.1] LV, X.Q. - ZHANG, C. - CUI, S.X. - XU, X.H. - WANG, L.L. - LI, J.H. - DU, G.C. - CHEN, J. - LEDESMA-AMARO, R. - LIU, L. Assembly of pathway enzymes by engineering functional membrane microdomain components for improved N-acetylglucosamine synthesis in Bacillus subtilis. In METABOLIC ENGINEERING. ISSN 1096-7176, SEP 2020, vol. 61, p. 96-105., Registrované v: WOS
6. [1.1] NTHUNYA, L.N. - GUTIERREZ, L. - NXUMALO, E.N. - VERLIEFDE, A.R. - MHLANGA, S.D. - ONYANGO, M.S. f-MWCNTs/AgNPs-coated superhydrophobic PVDF nanofibre membrane for organic, colloidal, and biofouling mitigation in direct contact membrane distillation. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. APR 2020, vol. 8, no. 2, 103654, Registrované v: WOS
7. [1.1] ROYES, J. - BIOU, V. - DAUTIN, N. - TRIBET, C. - MIROUX, B. Inducible intracellular membranes: molecular aspects and emerging applications. In MICROBIAL CELL FACTORIES. SEP 4 2020, vol. 19, no. 1, 176, Registrované v: WOS
8. [1.1] SCHAFER, A.B. - WENZEL, M. A How-To Guide for Mode of Action Analysis of Antimicrobial Peptides. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, OCT 19 2020, vol. 10, 540898, Registrované v: WOS
9. [1.1] SONG, Y.Z. - CARTRON, M.L. - JACKSON, P.J. - DAVISON, P.A. - DICKMAN, M.J. - ZHU, D. - HUANG, W.E. - HUNTER, C.N. Proteorhodopsin Overproduction Enhances the Long-Term Viability of Escherichia coli. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, JAN 2020, vol. 86, no. 1, e02087-19, Registrované v: WOS
10. [1.1] WALCZAK-SKIERSKA, J. - ZLOCH, M. - PAUTER, K. - POMASTOWSKI, P. - BUSZEWSKI, B. Lipidomic analysis of lactic acid bacteria strains by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, DEC 2020, vol. 103, no. 12, p. 11062-11078., Registrované v: WOS
11. [1.2] Andryukov, B.G., Lyapun, I.N., Matosova, E.V. The role of membrane phospholipids in

the implementation of protective strategies of bacteria in Zhurnal Mikrobiologii Epidemiologii i Immunobiologii 97(2020), pp. 594-603, Registrované v: SCOPUS
12. [1.2] Andryukov, B.G., Somova, L.M., Lyapun, I.N., Bynina, M.P., Matosova, E.V. Features of changes in spectra of fatty acids of the bacteria of the Enterobacteriaceae family in the process of forming stable (Dormant) cell forms In Zhurnal Mikrobiologii Epidemiologii i Immunobiologii 97(2020), pp. 401-412, Registrované v: SCOPUS

ADCA13 BARBARO, M. - BONFIGLIO, A. - RAFFO, L. - ALESSANDRINI, P. - FACCI, P. - BARÁK, Imrich. Fully electronic DNA hybridization detection by a standard CMOS biochip. In Sensors and Actuators B, 2006, vol. 118, p.41-46. (2005: 2.646 - IF, Q1 - JCR, 1.280 - SJR, Q1 - SJR).

Citácie:
1. [1.1] CHANG, C.F. - LU, M.S.C. CMOS Ion Sensitive Field Effect Transistors for Highly Sensitive Detection of DNA Hybridization. In IEEE SENSORS JOURNAL. ISSN 1530-437X, AUG.15, 2020, vol. 20, no. 16, p. 8930-8937., Registrované v: WOS
2. [1.1] XING, X.C. - CHEN, M. - GONG, Y. - LV, Z.Y. - HAN, S.T. - ZHOU, Y. Building memory devices from biocomposite electronic materials. In SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS. ISSN 1468-6996, JAN 31 2020, vol. 21, no. 1, p. 100-121., Registrované v: WOS

ADCA14 BARBARO, M. - BONFIGLIO, A. - RAFFO, L. - ALESSANDRINI, A. - FACCI, P. - BARÁK, Imrich. A CMOS, fully integrated sensor for electronic detection of DNA hybridization. In IEEE Electron Devices Letters, 2006, vol. 27, p. 595-597. (2005: 2.825 - IF, Q1 - JCR, 2.432 - SJR, Q1 - SJR). ISSN 0741-3106.

Citácie:
1. [1.1] MACWAN, I. - APHALE, A. - BHAGVATH, P. - PRASAD, S. - PATRA, P. Detection of Cardiovascular CRP Protein Biomarker Using a Novel Nanofibrous Substrate. In BIOSENSORS-BASEL. JUN 2020, vol. 10, no. 6., Registrované v: WOS
2. [1.2] SINGH, Jayant - KAPUR, Garima. Design of CMOS based Neuromorphic Sensor Circuit Using Floating Gate MOSFET. In 2020 6th International Conference on Signal Processing and Communication, ICSC 2020, 2020-03-01, pp. 248-251., Registrované v: SCOPUS

ADCA15 KOCÁKOVÁ, Pavlína - SLÁVIKOVÁ, Monika - HAJNICKÁ, Valéria - SLOVÁK, Mirko - GAŠPERÍK, Juraj - VANČOVÁ, Iveta - FUCHSBERGER, Norbert - NUTTALL, Patricia A. Effect of fast protein liquid chromatography fractionated salivary gland extracts from different ixodid tick species on interleukin-8 binding to its cell receptors. In Folia Parasitologica, 2003, vol. 50, p. 79-84. (2002: 0.515 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0015-5683.

Citácie:
1. [1.1] BHUSAL, R.P. - EATON, J.R.O. - CHOWDHURY, S.T. - POWER, C.A. - PROUDFOOT, A.E.I. - STONE, M.J. - BHATTACHARYA, S. Evasins: Tick Salivary Proteins that Inhibit Mammalian Chemokines. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, FEB 2020, vol. 45, no. 2, p. 108-122., Registrované v: WOS

ADCA16 BAUER, Jacob - ONDROVIČOVÁ, Gabriela - NAJMANOVA, L. - PEVALA, Vladimír - KAMENIK, Z. - KOŠTAN, J. - JANATA, J. - KUTEJOVÁ, Eva. Structure and possible mechanism of the CcbJ methyltransferase from Streptomyces caelestis. In Acta Crystallographica D, 2014, vol. 70, p. 943-57. (2013: 7.232 - IF, Q1 - JCR, karentované - CCC). (2014 - Current Contents). ISSN 0907-4449. Dostupné na: https://doi.org/10.1107/S139900471303397X

Citácie:
1. [1.1] WANG, S.A. - LIN, C.I. - ZHANG, J.W. - USHIMARU, R. - SASAKI, E. - LIU, H.W. Studies of lincosamide formation complete the biosynthetic pathway for lincomycin A. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, OCT 6 2020, vol. 117, no. 40, p. 24794-24801., Registrované v: WOS

ADCA17 BAUER, Jacob** - PAVLOVIĆ, Jelena - BAUEROVÁ-HLINKOVÁ, Vladena. Normal mode analysis as a routine part of a structural investigation. In Molecules, 2019, vol. 24, no. 15, p. 3293. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules24183293

Citácie:
1. [1.1] CUEVAS-ZUVIRIA, B. - MINGUEZ-TORAL, M. - DIAZ-PERALES, A. - GARRIDO-ARANDIA, M. - PACIOS, L.F. Dynamic plasticity of the lipid antigen-binding site of CD1d is crucially favoured by acidic pH and helper proteins. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 31 2020, vol. 10, no. 1., Registrované v: WOS
2. [1.1] PATRA, P. - BHATTACHARYA, M. - SHARMA, A.R. - GHOSH, P. - SHARMA, G. - PATRA, B.C. - MALLICK, B. - LEE, S.S. - CHAKRABORTY, C. Identification and Design of a Next-Generation Multi Epitopes Bases Peptide Vaccine Candidate Against Prostate Cancer: An In Silico Approach. In CELL BIOCHEMISTRY AND BIOPHYSICS. ISSN 1085-9195, DEC 2020, vol. 78, no. 4, SI, p. 495-509., Registrované v: WOS

3. [1.1] PATRA, P. - GHOSH, P. - PATRA, B.C. - BHATTACHARYA, M. Biocomputational Analysis and In Silico Characterization of an Angiogenic Protein (RNase5) in Zebrafish (Danio rerio). In INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS. ISSN 1573-3149, DEC 2020, vol. 26, no. 4, p. 1687-1697., Registrované v: WOS
4. [1.1] SUPO-ESCALANTE , R.R. - MEDICO, A. - GUSHIKEN, E. - OLIVOS-RAMIREZ, G.E. - QUISPE, Y. - TORRES, F. - ZAMUDIO, M. - ANTIPARRA, R. - AMZEL, L.M. - GILMAN, R.H. - SHEEN, P. - ZIMIC, M. Prediction of Mycobacterium tuberculosis pyrazinamidase function based on structural stability, physicochemical and geometrical descriptors. In PLOS ONE. ISSN 1932-6203, JUL 31 2020, vol. 15, no. 7., Registrované v: WOS
5. [1.1] SURPETA, B. - SEQUEIROS-BORJA, C.E. - BREZOVSKY, J. Dynamics, a Powerful Component of Current and Future in Silico Approaches for Protein Design and Engineering. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. APR 2020, vol. 21, no. 8., Registrované v: WOS
6. [1.2] BHATTACHARYA, Manojit - SHARMA, Ashish Ranjan - PATRA, Prasanta - GHOSH, Pratik - SHARMA, Garima - PATRA, Bidhan Chandra - SAHA, Rudra P. - LEE, Sang Soo - CHAKRABORTY, Chiranjib. A SARS-CoV-2 vaccine candidate: In-silico cloning and validation. In Informatics in Medicine Unlocked. ISSN 23529148, 2020-01-01, 20, pp., Registrované v: SCOPUS
7. [1.2] BUENO, João Gabriel Ribeiro - BORELLI, Guilherme - CORRÊA, Thamy Lívia Ribeiro - FIAMENGHI, Mateus Bernabe - JOSÉ, Juliana - DE CARVALHO, Murilo - DE OLIVEIRA, Leandro Cristante - PEREIRA, Gonçalo A.G. - DOS SANTOS, Leandro Vieira. Novel xylose transporter Cs4130 expands the sugar uptake repertoire in recombinant Saccharomyces cerevisiae strains at high xylose concentrations. In Biotechnology for Biofuels. ISSN 17546834, 2020-08-14, 13, 1, pp., Registrované v: SCOPUS

ADCA18 BEKE, Gábor - STANO, Matej - KĽUČÁR, Ľuboš. Modelling the interaction between bacteriophages and their bacterial hosts. In Mathematical Biosciences, 2016, vol. 279, p. 27–32. (2015: 1.256 - IF, Q3 - JCR, 0.712 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0025-5564. Dostupné na: https://doi.org/10.1016/j.mbs.2016.06.009

Citácie:

1. [1.1] EL-DOUGDOUG, N.K. - HASSAN, M.G. - ELASHKAR, E. - AHMED, A.I. - HAZAA, M.M. Control of Antibiotic-Resistant Salmonella enterica Serovar Typhi in Water and Milk Using Phage Cocktail. In EGYPTIAN JOURNAL OF BOTANY. ISSN 0375-9237, SPR 2020, vol. 60, no. 1, p. 185-197., Registrované v: WOS
2. [1.1] IQBAL, M. - NARULITA, E. - ZAHRA, F. - MURDIYAH, S. Effect of Phage-Antibiotic Synergism (PAS) in increasing antibiotic inhibition of bacteria caused of foodborne diseases. In JOURNAL OF INFECTION IN DEVELOPING COUNTRIES. ISSN 1972-2680, MAY 2020, vol. 14, no. 5, p. 488-493., Registrované v: WOS

ADCA19 BERNROITNER, M. - ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - PESCHEK, G.A. - OBINGER, C. Occurrence, phylogeny, structure, and function of catalases and peroxidases in cyanobacteria. In Journal of experimental botany, 2009, vol. 60, p. 423-440. (2008: 4.001 - IF, Q1 - JCR, 2.234 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0022-0957.

Citácie:

1. [1.1] BALLAL, A. - CHAKRAVARTY, D. - BIHANI, S.C. - BANERJEE, M. Gazing into the remarkable world of non-heme catalases through the window of the cyanobacterial Mn-catalase ';KatB';. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, NOV 20 2020, vol. 160, p. 480-487., Registrované v: WOS
2. [1.1] CAMPITELLI, P. - CRUCIANELLI, M. On the Capability of Oxidovanadium(IV) Derivatives to Act as All-Around Catalytic Promoters Since the Prebiotic World. In MOLECULES. JUL 2020, vol. 25, no. 13, 3073, Registrované v: WOS
3. [1.1] GALLO, M. - MORSE, D. - HOLLNAGEL, H.C. - BARROS, M.P. Oxidative stress and toxicology of Cu2+ based on surface areas in mixed cultures of green alga and cyanobacteria: The pivotal role of H2O2. In AQUATIC TOXICOLOGY. ISSN 0166-445X, MAY 2020, vol. 222, 105450, Registrované v: WOS
4. [1.1] LUSTY, M.W. - GOBLER, C.J. The Efficacy of Hydrogen Peroxide in Mitigating Cyanobacterial Blooms and Altering Microbial Communities across Four Lakes in NY, USA. In TOXINS. JUL 2020, vol. 12, no. 7, 428., Registrované v: WOS
5. [1.1] PIEL, T. - SANDRINI, G. - WHITE, E. - XU, T.S. - SCHUURMANS, J.M. - HUISMAN, J. - VISSER, P.M. Suppressing Cyanobacteria with Hydrogen Peroxide Is More Effective at High Light Intensities. In TOXINS. JAN 2020, vol. 12, no. 1, 18, Registrované v: WOS
6. [1.1] RASTOGI, R.P. - MADAMWAR, D. - NAKAMOTO, H. - INCHAROENSAKDI, A. Resilience and self-regulation processes of microalgae under UV radiation stress. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY C-PHOTOCHEMISTRY REVIEWS. ISSN 1389-5567, JUN 2020, vol. 43, 100322, Registrované v: WOS

7. [1.1] SANDRINI, G. - PIEL, T. - XU, T.S. - WHITE, E. - QIN, H.J. - SLOT, P.C. - HUISMAN, J. - VISSER, P.M. Sensitivity to hydrogen peroxide of the bloom-forming cyanobacterium Microcystis PCC 7806 depends on nutrient availability. In HARMFUL ALGAE. ISSN 1568-9883, NOV 2020, vol. 99, 101916, Registrované v: WOS
8. [1.1] SHEEBA - RUHIL, K. - PRASAD, S.M. Nostoc muscorum and Phormidium foveolarum differentially respond to butachlor and UV-B stress. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, APR 2020, vol. 26, no. 4, p. 841-856., Registrované v: WOS
9. [1.1] SUN, K.L. - SONG, Y. - ZONG, W.S. - TANG, J.C. - LIU, R.T. Anthracene-induced DNA damage and oxidative stress: a combined study at molecular and cellular levels. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, NOV 2020, vol. 27, no. 33, SI, p. 41458-41474., Registrované v: WOS

ADCA20 BERTELLI, M. - KAINI, A.K. - PAOLACCI, S.** - MANARA, E. - KURTI, D. - DHULI, K. - BUSHATI, V. - MIERTUS, J. - PANGALLO, Domenico - BAGLIVO, M. - BECCARI, T. - MICHELINI, S. Hydroxytyrosol: A natural compound with promising pharmacological activities. In Journal of Biotechnology, 2020, vol. 309, p. 29-33. (2019: 3.503 - IF, Q2 - JCR, 0.992 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2019.12.016

Citácie:

1. [1.1] BREAKSPEAR, I. - GUILLAUME, C. A Quantitative Phytochemical Comparison of Olive Leaf Extracts on the Australian Market. In MOLECULES. SEP 2020, vol. 25, no. 18., Registrované v: WOS
2. [1.1] CUYAS, E. - GUMUZIO, J. - LOZANO-SANCHEZ, J. - SEGURA-CARRETERO, A. - VERDURA, S. - BOSCH-BARRERA, J. - MARTIN-CASTILLO, B. - NONELL-CANALS, A. - LLEBARIA, A. - CABELLO, S. - SERRA, C. - SANCHEZ-MARTINEZ, M. - MARTIN, A.G. - MENENDEZ, J.A. Mimetics of extra virgin olive oil phenols with anti-cancer stem cell activity. In AGING-US. ISSN 1945-4589, NOV 9 2020, vol. 12, no. 21, p. 21057-21075., Registrované v: WOS
3. [1.1] D';ANGELO, C. - FRANCESCHELLI, S. - QUILES, J.L. - SPERANZA, L. Wide Biological Role of Hydroxytyrosol: Possible Therapeutic and Preventive Properties in Cardiovascular Diseases. In CELLS. SEP 2020, vol. 9, no. 9., Registrované v: WOS
4. [1.1] JIMENEZ-LOPEZ, C. - CARPENA, M. - LOURENCO-LOPES, C. - GALLARDO-GOMEZ, M. - LORENZO, J.M. - BARBA, F.J. - PRIETO, M.A. - SIMAL-GANDARA, J. Bioactive Compounds and Quality of Extra Virgin Olive Oil. In FOODS. AUG 2020, vol. 9, no. 8., Registrované v: WOS
5. [1.1] MARTINEZ-ZAMORA, L. - ROS, G. - NIETO, G. Synthetic vs. Natural Hydroxytyrosol for Clean Label Lamb Burgers. In ANTIOXIDANTS. SEP 2020, vol. 9, no. 9., Registrované v: WOS
6. [1.1] REVERON, I. - PLAZA-VINUESA, L. - SANTAMARIA, L. - OLIVEROS, J.C. - DE LAS RIVAS, B. - MUNOZ, R. - DE FELIPE, F.L. Transcriptomic Evidence of Molecular Mechanisms Underlying the Response of Lactobacillus plantarum WCFS1 to Hydroxytyrosol. In ANTIOXIDANTS. MAY 2020, vol. 9, no. 5., Registrované v: WOS
7. [1.1] SILVA, A.F.R. - RESENDE, D. - MONTEIRO, M. - COIMBRA, M.A. - SILVA, A.M.S. - CARDOSO, S.M. Application of Hydroxytyrosol in the Functional Foods Field: From Ingredient to Dietary Supplements. In ANTIOXIDANTS. DEC 2020, vol. 9, no. 12., Registrované v: WOS
8. [1.1] ZEB, A. Concept, mechanism, and applications of phenolic antioxidants in foods. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, SEP 2020, vol. 44, no. 9., Registrované v: WOS

ADCA21 BÍLIKOVÁ, Katarína - MIRGORODSKAYA, E. - BUKOVSKÁ, Gabriela - GOBOM, J. - LEHRACH, H. - ŠIMÚTH, Jozef. Towards functional proteomics of minority component of honeybee royal jelly: The effect of post-translational modifications on the antimicrobial activity of apalbumin2. In Proteomics, 2009, vol. 9, p. 2131-2138. (2008: 4.586 - IF, Q1 - JCR, 1.610 - SJR, Q1 - SJR). ISSN 1615-9853.

Citácie:

1. [1.1] JONCZYK-MATYSIAK, E. - POPIELA, E. - OWCZAREK, B. - HODYRA-STEFANIAK, K. - SWITALA-JELEN, K. - LODEJ, N. - KULA, D. - NEUBERG, J. - MIGDAL, P. - BAGINSKA, N. - ORWAT, F. - WEBER-DABROWSKA, B. - ROMAN, A. - GORSKI, A. Phages in Therapy and Prophylaxis of American Foulbrood - Recent Implications From Practical Applications. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, AUG 11 2020, vol. 11., Registrované v: WOS
2. [1.2] NENNI, Merve - ÇELEBIER, Mustafa - SÜSLÜ, İncilay. An overview of proteomic studies. In Hacettepe University Journal of the Faculty of Pharmacy. ISSN 13000608, 2020-01-01, 40, 1, pp. 48-58., Registrované v: SCOPUS

ADCA22 BÍLIKOVÁ, Katarína - POPOVA, M. - TRUSHEVA, B. - BANKOVA, V. New anti-Paenibacillus larvae substances purified from propolis. In Apidologie, 2013, vol. 44, p. 278-285. (2012: 2.155 - IF,

Q1 - JCR, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0044-8435. Dostupné na: https://doi.org/10.1007/s13592-012-0178-1

Citácie:

1. [1.2] RANAIVOARISOA, Rianatiana H. - RALAMBONIRINA, Sylvia T.Rasoarivelo - RANDRIAMIALINORO, Faliarivony - RANDRIANASOLO, Rivoarison - RATSIMBASON, Michel - RANARIVELO, Lalasoa R. Antiplasmodial Activity of the Extracts and Flavonoids Isolated from Helichrysum gymnocephalum Humbert (Asteraceae) from Madagascar. In ACS Symposium Series. ISSN 00976156, 2020-01-01, 1361, pp. 171-178., Registrované v: SCOPUS

ADCA23 BÍLIKOVÁ, Katarína - ŠIMÚTH, Jozef. New criterion for evaluation of honey: quantification of royal jelly protein apalbumin 1 in honey by ELISA. In Journal of agriculture and food chemistry, 2010, vol. 58, p. 8776–8781. (2009: 2.469 - IF, 1.330 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0021-8561. Dostupné na: https://doi.org/10.1021/jf101583s

Citácie:

1. [1.1] HOSSAIN, K.S. - HOSSAIN, M.G. - MONI, A. - RAHMAN, M.M. - RAHMAN, U.H. - ALAM, M. - KUNDU, S. - RAHMAN, M.M. - HANNAN, M.A. - UDDIN, M.J. Prospects of honey in fighting against COVID-19: pharmacological insights and therapeutic promises. In HELIYON. DEC 2020, vol. 6, no. 12., Registrované v: WOS

2. [1.1] MAKHLOUFI, C. - TAIBI, K. - ABDERRAHIM, L.A. Characterization of Invertase and Diastase Activities, 5-Hydroxymethylfurfural Content and Hydrogen Peroxide Production of Some Algerian Honeys. In IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE. ISSN 1028-6276, OCT 2020, vol. 44, no. 5, p. 1295-1302., Registrované v: WOS

3. [1.1] TAMAS-KRUMPE, O. - MARGAOAN, R. - BOBIS, O. - LATIU, C. - URCAN, A. - OGNEAN, L. NATURAL HONEY AS A POTENTIAL NUTRACEUTICAL SOURCE (REVIEW). In SCIENTIFIC PAPERS-SERIES D-ANIMAL SCIENCE. ISSN 2285-5750, 2020, vol. 63, no. 1, p. 106-115., Registrované v: WOS

4. [1.2] SARKAR, S. - CHANDRA, S. Honey as a functional additive in yoghurt – a review. In Nutrition and Food Science. ISSN 00346659, 2020-01-22, 50, 1, pp. 168-178., Registrované v: SCOPUS

ADCA24 BISCHOFF, M. - DUNMAN, P. - KORMANEC, Ján - MACAPAGAL, D. - MURPHY, E. - MOUNTS, W. - BERGER-BACHI, B. - PROJAN, S. Microarray-based analysis of the Staphylococcus aureus sigmaB regulon. In Journal of Bacteriology, 2004, vol. 186, p. 4085-4099. (2004 - Current Contents). ISSN 0021-9193.

Citácie:

1. [1.1] AYALA, F.R. - BARTOLINI, M. - GRAU, R. The Stress-Responsive Alternative Sigma Factor SigB ofBacillus subtilisand Its Relatives: An Old Friend With New Functions. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 15 2020, vol. 11, 1761, Registrované v: WOS

2. [1.1] BONILLA, C.Y. Generally Stressed Out Bacteria: Environmental Stress Response Mechanisms in Gram-Positive Bacteria. In INTEGRATIVE AND COMPARATIVE BIOLOGY. ISSN 1540-7063, JUL 2020, vol. 60, no. 1, p. 126-133., Registrované v: WOS

3. [1.1] LEE, J.M. - ZILM, P.S. - KIDD, S.P. Novel Research Models for Staphylococcus aureus Small Colony Variants (SCV) Development: Co-pathogenesis and Growth Rate. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, FEB 28 2020, vol. 11, 321, Registrované v: WOS

4. [1.1] LEROY, S. - EVEN, S. - MICHEAU, P. - DE LA FOYE, A. - LAROUTE, V. - LE LOIR, Y. - TALON, R. Transcriptomic Analysis of Staphylococcus xylosus in Solid Dairy Matrix Reveals an Aerobic Lifestyle Adapted to Rind. In MICROORGANISMS. NOV 2020, vol. 8, no. 11, 1807, Registrované v: WOS

5. [1.1] LI, L. - WANG, G.Z. - LI, Y. - FRANCOIS, P. - BAYER, A.S. - CHEN, L. - SEIDL, K. - CHEUNG, A. - XIONG, Y.Q. Impact of the Novel Prophage phi SA169 on Persistent Methicillin-Resistant Staphylococcus aureus Endovascular Infection. In MSYSTEMS. ISSN 2379-5077, MAY-JUN 2020, vol. 5, no. 3, e00178-20, Registrované v: WOS

6. [1.1] LIU, W.F. - BOUDRY, P. - BOHN, C. - BOULOC, P. Staphylococcus aureus pigmentation is not controlled by Hfq. In BMC RESEARCH NOTES. FEB 7 2020, vol. 13, no. 1, 63, Registrované v: WOS

7. [1.1] PETRIE, L.E. - LEONARD, A.C. - MURPHY, J. - COX, G. Development and validation of a high-throughput whole cell assay to investigate Staphylococcus aureus adhesion to host ligands. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, DEC 4 2020, vol. 295, no. 49, p. 16700-16712., Registrované v: WOS

8. [1.1] SCHILCHER, K. - HORSWILL, A.R. Staphylococcal Biofilm Development: Structure, Regulation, and Treatment Strategies. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, SEP 2020, vol. 84, no. 3, e00026-19, Registrované v: WOS

9. [1.1] SUPA-AMORNKUL, S. - MONGKOLSUK, P. - SUMMPUNN, P. - CHAIYAKUNVAT, P. - NAVARATDUSIT, W. - JIARPINITNUN, C. - CHATURONGAKUL, S. Alternative Sigma Factor B

in Bovine Mastitis-Causing Staphylococcus aureus: Characterization of Its Role in Biofilm Formation, Resistance to Hydrogen Peroxide Stress, Regulon Members. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 7 2019, vol. 10, pp.2493, Registrované v: WOS

ADCA25 BLESÁK, Karol - JANEČEK, Štefan. Sequence fingerprints of enzyme specificities from the glycoside hydrolase family GH57. In Extremophiles, 2012, vol. 16, p. 497-506. (2011: 2.941 - IF, Q2 - JCR, 1.552 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-012-0449-9

Citácie:

1. [1.1] BAN, X.F. - DHOBLE, A.S. - LI, C.M. - GU, Z.B. - HONG, Y. - CHENG, L. - HOLLER, T.P. - KAUSTUBH, B. - LI, Z.F. Bacterial 1,4-alpha-glucan branching enzymes: characteristics, preparation and commercial applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 2 2020, vol. 40, no. 3, p. 380-396., Registrované v: WOS

ADCA26 BLESÁK, Karol - JANEČEK, Štefan. Two potentially novel amylolytic enzyme specificities in the prokaryotic glycoside hydrolase α-amylase family GH57. In Microbiology : international journal, 2013, vol. 159, p. 2584-2593. (2012: 2.852 - IF, Q2 - JCR, 1.600 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.071084-0

Citácie:

1. [1.1] BAN, X.F. - DHOBLE, A.S. - LI, C.M. - GU, Z.B. - HONG, Y. - CHENG, L. - HOLLER, T.P. - KAUSTUBH, B. - LI, Z.F. Bacterial 1,4-alpha-glucan branching enzymes: characteristics, preparation and commercial applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 2 2020, vol. 40, no. 3, p. 380-396., Registrované v: WOS

ADCA27 BORKO, Ľubomír - BAUEROVÁ-HLINKOVÁ, Vladena - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - BECK, K - LAI, F.A. - ZAHRADNÍKOVÁ, Alexandra - ŠEVČÍK, Jozef. Structural insights into the human RyR2 N-terminal region involved in cardiac arrhythmias. In Acta Crystallographica D, 2014, vol. D70, p. 2897-2912. (2013: 7.232 - IF, Q1 - JCR, karentované - CCC). (2014 - Current Contents). ISSN 0907-4449. Dostupné na: https://doi.org/10.1107/S1399004714020343

Citácie:

1. [1.1] CHIAPPARINO, Antonella - GRBAVAC, Antonija - JONKER, Hendrik R. A. - HACKMANN, Yvonne - MORTENSEN, Sofia - ZATORSKA, Ewa - SCHOTT, Andrea - STIER, Gunter - SAXENA, Krishna - WILD, Klemens - SCHWALBE, Harald - STRAHL, Sabine - SINNING, Irmgard. Functional implications of MIR domains in protein O-mannosylation. In ELIFE. ISSN 2050-084X, 2020, vol. 9, no., pp., Registrované v: WOS

2. [1.1] KOHLI, Utkarsh - KUNTZ, Lisa - NAYAK, Hemal M. RYR2p.R169L mutation and left ventricular hypertrophy in a child with emotion-triggered sudden death. In CARDIOLOGY IN THE YOUNG. ISSN 1047-9511, 2020, vol. 30, no. 7, pp. 1039-1042., Registrované v: WOS

3. [1.1] LIN, Lianyun - HAO, Zhiyuan - CAO, Peng - YUCHI, Zhiguang. Homology modeling and docking study of diamondback moth ryanodine receptor reveals the mechanisms for channel activation, insecticide binding and resistance. In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2020, vol. 76, no. 4, pp. 1291-1303., Registrované v: WOS

4. [1.1] NOZAKI, Yoshihiro - KATO, Yoshiaki - UIKE, Kiyoshi - YAMAMURA, Kenichiro - KIKUCHI, Masahiro - YASUDA, Maki - OHNO, Seiko - HORIE, Minoru - MURAYAMA, Takashi - KUREBAYASHI, Nagomi - HORIGOME, Hitoshi. Co-Phenotype of Left Ventricular Non-Compaction Cardiomyopathy and Atypical Catecholaminergic Polymorphic Ventricular Tachycardia in Association With R169Q, a Ryanodine Receptor Type 2 Missense Mutation. In CIRCULATION JOURNAL. ISSN 1346-9843, 2020, vol. 84, no. 2, pp. 226-+., Registrované v: WOS

5. [1.1] YAMAZAWA, Toshiko - OGAWA, Haruo - MURAYAMA, Takashi - YAMAGUCHI, Maki - OYAMADA, Hideto - SUZUKI, Junji - KUREBAYASHI, Nagomi - KANEMARU, Kazunori - OGUCHI, Katsuji - SAKURAI, Takashi - IINO, Masamitsu. Insights into channel modulation mechanism of RYR1 mutants using Ca2+ imaging and molecular dynamics. In JOURNAL OF GENERAL PHYSIOLOGY. ISSN 0022-1295, 2020, vol. 152, no. 1, pp., Registrované v: WOS

ADCA28 BREZNA, B. - KWEON, O. - STINGLEY, R.L. - FREEMAN, J.P. - KHAN, A.A. - POLEK, Bystrík - JONES, R.C. - CERNIGLIA, C.E. Molecular characterization of cytochrome P450 genes in the polycyclic aromatic hydrocarbon degrading Mycobacterium vanbaalenii PYR-1. In Applied Microbiology and Biotechnology, 2006, vol. 71, p. 522-532. (2005: 2.586 - IF, Q2 - JCR, 1.131 - SJR, Q1 - SJR). ISSN 0175-7598.

Citácie:

1. [1.1] MIAO, L.L. - QU, J. - LIU, Z.P. Hydroxylation at Multiple Positions Initiated the Biodegradation of Indeno[1,2,3-cd]Pyrene inRhodococcus aetherivoransIcdP1. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 22 2020, vol. 11., Registrované v: WOS

2. [1.1] PEREIRA, A.C. - RAMOS, B. - REIS, A.C. - CUNHA, M.V. Non-Tuberculous Mycobacteria: Molecular and Physiological Bases of Virulence and Adaptation to Ecological

Niches. In MICROORGANISMS. SEP 2020, vol. 8, no. 9., Registrované v: WOS
3. [1.1] SUN, S.S. - WANG, H.Z. - FU, B.X. - ZHANG, H. - LOU, J. - WU, L.S. - XU, J.M. Non-bioavailability of extracellular 1-hydroxy-2-naphthoic acid restricts the mineralization of phenanthrene by Rhodococcus sp. WB9. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, FEB 20 2020, vol. 704., Registrované v: WOS
4. [1.1] WOLF, D.C. - CRYDER, Z. - KHOURY, R. - CARLAN, C. - GAN, J. Bioremediation of PAH-contaminated shooting range soil using integrated approaches. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, JUL 15 2020, vol. 726., Registrované v: WOS
5. [1.1] ZHENG, R.K. - SUN, C.M. Sphingosinithalassobacter tenebrarum sp. nov., isolated from a deep-sea cold seep. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2020, vol. 70, no. 10, p. 5561-5566., Registrované v: WOS
6. [1.1] ZHU, Q.H. - WU, Y.C. - ZENG, J. - ZHANG, T.L. - LIN, X.G. Influence of organic amendments used for benz[a]anthracene remediation in a farmland soil: pollutant distribution and bacterial changes. In JOURNAL OF SOILS AND SEDIMENTS. ISSN 1439-0108, JAN 2020, vol. 20, no. 1, p. 32-41., Registrované v: WOS

ADCA29 BREZNA, B. - KHAN, A.A. - CERNIGLIA, C.E. Molecular characterisation of dioxygenases from polycyclic aromatic hydrogen-degrading Mycobacterium spp. In FEMS Microbiology Letters, 2003, vol. 223, p. 177-183. ISSN 0378-1097.

Citácie:
1. [1.1] JIANG, B. - XING, Y. - LI, G.H. - ZHANG, N.N. - LIAN, L.N. - SUN, G.D. - ZHANG, D.Y. iTRAQ-Based Comparative Proteomic Analysis of Acinetobacter baylyi ADP1 Under DNA Damage in Relation to Different Carbon Sources. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, JAN 14 2020, vol. 10., Registrované v: WOS
2. [1.1] ZHANG, K. - YANG, S.Q. - LUO, H.B. - WANG, W. - WU, X.L. - CHEN, J. - CHEN, W. - CHEN, J. Aerobic biodegradation pathways of pentabromobiphenyl ethers (BDE-99) and enhanced degradation in membrane bioreactor system. In WATER SCIENCE AND TECHNOLOGY. ISSN 0273-1223, JUL 1 2020, vol. 82, no. 1, p. 39-55., Registrované v: WOS

ADCA30 BREŽNÁ, Barbara - ŽENIŠOVÁ, K. - CHOVANOVÁ, Katarína - CHEBENOVA, V. - KRAKOVÁ, Lucia - KUCHTA, T. - PANGALLO, Domenico. Evaluation of fungal and yeast diversity in Slovakian wine-related microbial communities. In Antonie van Leeuwenhoek, 2010, vol. 98, p. 519–529. (2009: 1.983 - IF, Q3 - JCR, 0.976 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-6072. Dostupné na: https://doi.org/10.1007/s10482-010-9469-6

Citácie:
1. [1.1] BRYSCH-HERZBERG, M. - WOHLMANN, E. - FISCHER, R. Zygosaccharomyces seidelii sp. nov. a new yeast species from the Maldives, and a revisit of the single-strain species debate. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, MAR 2020, vol. 113, no. 3, p. 427-436., Registrované v: WOS
2. [1.1] CHEN, Y. - ZHANG, W. - YI, H. - WANG, B. - XIAO, J. - ZHOU, X.Y. - XU, J.K. - JIANG, L. - SHI, X.W. Microbial community composition and its role in volatile compound formation during the spontaneous fermentation of ice wine made from Vidal grapes. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, MAY 2020, vol. 92, p. 365-377., Registrované v: WOS

ADCA31 BRNÁKOVÁ, Zuzana - GODÁNY, Andrej - TIMKO, Jozef. An extracellular endodeoxyribonuclease from Streptomyces aureofaciens. In Biochimica et Biophysica Acta : general subjects, 2005, vol. 1721, p. 116-123. (2004: 3.369 - IF, karentované - CCC). (2005 - Current Contents, SCOPUS). ISSN 0304-4165.

Citácie:
1. [1.2] SHAALA, Lamiaa A. - YOUSSEF, Diaa T.A. - ALZUGHAIBI, Torki A. - ELHADY, Sameh S. Antimicrobial chlorinated 3-phenylpropanoic acid derivatives from the red sea marine actinomycete streptomyces coelicolor LY001. In Marine Drugs, 2020-09-01, 18, 9, pp., Registrované v: SCOPUS

ADCA32 BUČEKOVÁ, Marcela - BURIOVÁ, Monika - PEKÁRIK, Ladislav - MAJTÁN, Viktor - MAJTÁN, Juraj**. Phytochemicals-mediated production of hydrogen peroxide is crucial for high antibacterial activity of honeydew honey. In Scientific Reports, 2018, vol. 8, art. no. 9061. (2017: 4.122 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-018-27449-3

Citácie:
1. [1.1] AL-KAFAWEEN, M.A. - AL-JAMAL, H.A.N. - HILMI, A.M. - ELSAHORYI, N.A. - JAFFAR, N. - ZAHRI, M.K. Antibacterial properties of selected Malaysian Tualang honey against Pseudomonas aeruginosa and Streptococcus pyogenes. In IRANIAN JOURNAL OF MICROBIOLOGY. ISSN 2008-3289, DEC 2020, vol. 12, no. 6, p. 565-576., Registrované v: WOS
2. [1.1] BRUDZYNSKI, K. A current perspective on hydrogen peroxide production in honey. A review. In FOOD CHEMISTRY. ISSN 0308-8146, DEC 1 2020, vol. 332., Registrované v: WOS

3. [1.1] CEBRERO, G. - SANHUEZA, O. - PEZOA, M. - BAEZ, M.E. - MARTINEZ, J. - BAEZ, M. - FUENTES, E. Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. In FOOD CHEMISTRY. ISSN 0308-8146, JUN 15 2020, vol. 315., Registrované v: WOS
4. [1.1] CILIA, G. - FRATINI, F. - MARCHI, M. - SAGONA, S. - TURCHI, B. - ADAMCHUK, L. - FELICIOLI, A. - KACANIOVA, M. Antibacterial Activity of Honey Samples from Ukraine. In VETERINARY SCIENCES. DEC 2020, vol. 7, no. 4., Registrované v: WOS
5. [1.1] DIDARAS, N.A. - KARATASOU, K. - DIMITRIOU, T.G. - AMOUTZIAS, G.D. - MOSSIALOS, D. Antimicrobial Activity of Bee-Collected Pollen and Beebread: State of the Art and Future Perspectives. In ANTIBIOTICS-BASEL. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS
6. [1.1] GREEN, K.J. - DODS, K. - HAMMER, K.A. Development and validation of a new microplate assay that utilises optical density to quantify the antibacterial activity of honeys including Jarrah, Marri and Manuka. In PLOS ONE. ISSN 1932-6203, DEC 9 2020, vol. 15, no. 12., Registrované v: WOS
7. [1.1] HRISTOV, P. - NEOV, B. - SHUMKOVA, R. - PALOVA, N. Significance of Apoidea as Main Pollinators. Ecological and Economic Impact and Implications for Human Nutrition. In DIVERSITY-BASEL. JUL 2020, vol. 12, no. 7., Registrované v: WOS
8. [1.1] LI, D. - KUMARI, B. - MAKABENTA, J.M. - TAO, B.L. - QIAN, K. - MEI, X.F. - ROTELLO, V.M. Development of coinage metal nanoclusters as antimicrobials to combat bacterial infections. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, NOV 7 2020, vol. 8, no. 41, p. 9466-9480., Registrované v: WOS
9. [1.1] LIANG, Y.Y. - ZHANG, L. - QU, Y. - LI, H. - SHI, B. Antibacterial activity of buckwheat honey added with ferrous lactate against Pseudomonas aeruginosa. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JAN 2020, vol. 117., Registrované v: WOS
10. [1.1] MARUHASHI, E. Honey in Wound Healing. In THERAPEUTIC DRESSINGS AND WOUND HEALING APPLICATIONS. 2020, p. 235-254., Registrované v: WOS
11. [1.1] MASOURA, M. - PASSARETTI, P. - OVERTON, T.W. - LUND, P.A. - GKATZIONIS, K. Use of a model to understand the synergies underlying the antibacterial mechanism of H2O2-producing honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 19 2020, vol. 10, no. 1., Registrované v: WOS
12. [1.1] NG, W.J. - SIT, N.W. - OOI, P.A.C. - EE, K.Y. - LIM, T.M. The Antibacterial Potential of Honeydew Honey Produced by Stingless Bee (Heterotrigona itama) against Antibiotic Resistant Bacteria. In ANTIBIOTICS-BASEL. ISSN 2079-6382, DEC 2020, vol. 9, no. 12., Registrované v: WOS

ADCA33 BUČEKOVÁ, Marcela - JURICOVÁ, Valéria - MONTON, E. - MARTINOTTI, S. - RANZATO, E. - MAJTÁN, Juraj**. Microwave processing of honey negatively affects honey antibacterial activity by inactivation of bee-derived glucose oxidase and defensin-1. In Food chemistry, 2018, vol. 240, p. 1131-1136. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2017.08.054

Citácie:

1. [1.1] AMARIEI, S. - NOROCEL, L. - SCRIPCA, L.A. An innovative method for preventing honey crystallization. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, DEC 2020, vol. 66., Registrované v: WOS
2. [1.1] PARK, S.H. - KIM, Y.K. - KIM, M.S. - LEE, S.H. Antioxidant and Antibacterial Properties of Hovenia (Hovenia dulcis) Monofloral Honey Produced in South Korea. In FOOD SCIENCE OF ANIMAL RESOURCES. ISSN 2636-0772, 2020, vol. 40, no. 2, p. 221-230., Registrované v: WOS
3. [1.2] ROSIAK, Elżbieta - MADRAS-MAJEWSKA, Beata - GEMBA, Mateusz. Selected methods of microbiological quality assessment of lime and acacia honeys available on Polish market. In Zywnosc. Nauka. Technologia. Jakosc/Food. Science Technology. Quality. ISSN 24510769, 2020-01-01, 27, 1, pp. 85-95., Registrované v: SCOPUS

ADCA34 BUČEKOVÁ, Marcela - JURICOVÁ, Valéria - DI MARCO, G. - GISMONDI, A. - LEONARDI, D. - CANINI, A. - MAJTÁN, Juraj**. Effect of thermal liquefying of crystallised honeys on their antibacterial activities. In Food chemistry, 2018, vol. 269, p. 335-341. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2018.07.012

Citácie:

1. [1.2] KOLAYLI, Sevgi - KESKIN, Merve. Natural bee products and their apitherapeutic applications. In Studies in Natural Products Chemistry. ISSN 15725995, 2020-01-01, 66, pp. 175-196., Registrované v: SCOPUS

ADCA35 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). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules24081573

Citácie:

1. [1.1] CEBRERO, G. - SANHUEZA, O. - PEZOA, M. - BAEZ, M.E. - MARTINEZ, J. - BAEZ, M. - FUENTES, E. Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. In FOOD CHEMISTRY. ISSN 0308-8146, JUN 15 2020, vol. 315., Registrované v: WOS

2. [1.1] CILIA, G. - FRATINI, F. - MARCHI, M. - SAGONA, S. - TURCHI, B. - ADAMCHUK, L. - FELICIOLI, A. - KACANIOVA, M. Antibacterial Activity of Honey Samples from Ukraine. In VETERINARY SCIENCES. DEC 2020, vol. 7, no. 4., Registrované v: WOS

3. [1.1] COMBARROS-FUERTES, P. - ESTEVINHO, L.M. - TEIXEIRA-SANTOS, R. - RODRIGUES, A.G. - PINA-VAZ, C. - FRESNO, J.M. - TORNADIJO, M.E. Antibacterial Action Mechanisms of Honey: Physiological Effects of Avocado, Chestnut, and Polyfloral Honey upon Staphylococcus aureus and Escherichia coli. In MOLECULES. MAR 1 2020, vol. 25, no. 5., Registrované v: WOS

4. [1.1] COMBARROS-FUERTES, P. - FRESNO, J.M. - ESTEVINHO, M.M. - SOUSA-PIMENTA, M. - TORNADIJO, M.E. - ESTEVINHO, L.M. Honey: Another Alternative in the Fight against Antibiotic-Resistant Bacteria?. In ANTIBIOTICS-BASEL. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS

5. [1.1] GREEN, K.J. - DODS, K. - HAMMER, K.A. Development and validation of a new microplate assay that utilises optical density to quantify the antibacterial activity of honeys including Jarrah, Marri and Manuka. In PLOS ONE. ISSN 1932-6203, DEC 9 2020, vol. 15, no. 12., Registrované v: WOS

6. [1.1] HBIBI, A. - SIKKOU, K. - KHEDID, K. - EL HAMZAOUI, S. - BOUZIANE, A. - BENAZZA, D. Antimicrobial activity of honey in periodontal disease: a systematic review. In JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. ISSN 0305-7453, APR 2020, vol. 75, no. 4, p. 807-826., Registrované v: WOS

7. [1.1] KARAPETSAS, A. - VOULGARIDOU, G.P. - ILIADI, D. - TSOCHANTARIDIS, I. - MICHAIL, P. - KYNIGOPOULOS, S. - LAMBROPOULOU, M. - STAVROPOULOU, M.I. - STATHOPOULOU, K. - KARABOURNIOTI, S. - ALIGIANNIS, N. - GARDIKIS, K. - GALANIS, A. - PANAYIOTIDIS, M.I. - PAPPA, A. Honey Extracts Exhibit Cytoprotective Properties against UVB-Induced Photodamage in Human Experimental Skin Models. In ANTIOXIDANTS. JUL 2020, vol. 9, no. 7., Registrované v: WOS

8. [1.1] MARTINENGHI, L.D. - JONSSON, R. - LUND, T. - JENSSEN, H. Isolation, Purification, and Antimicrobial Characterization of Cannabidiolic Acid and Cannabidiol from Cannabis sativa L.. In BIOMOLECULES. JUN 2020, vol. 10, no. 6., Registrované v: WOS

9. [1.1] MASOURA, M. - PASSARETTI, P. - OVERTON, T.W. - LUND, P.A. - GKATZIONIS, K. Use of a model to understand the synergies underlying the antibacterial mechanism of H2O2-producing honeys. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 19 2020, vol. 10, no. 1., Registrované v: WOS

10. [1.1] NOLAN, V.C. - HARRISON, J. - WRIGHT, J.E.E. - COX, J.A.G. Clinical Significance of Manuka and Medical-Grade Honey for Antibiotic-Resistant Infections: A Systematic Review. In ANTIBIOTICS-BASEL. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS

11. [1.1] SAHIN, H. - KOLAYLI, S. - BEYKAYA, M. Investigation of Variations of Invertase and Glucose Oxidase Degrees against Heating and Timing Options in Raw Honeys. In JOURNAL OF CHEMISTRY. ISSN 2090-9063, MAR 27 2020, vol. 2020., Registrované v: WOS

12. [1.2] ZHANG, Xin - TANG, Xiangyou - SONG, Huali - SHI, Peng - HAO, Yuhui. Research progress on radioprotective effects of bee products. In Chinese Journal of Radiological Medicine and Protection. ISSN 02545098, 2020-08-25, 40, 8, pp. 648-652., Registrované v: SCOPUS

13. [1.2] ČEKSTERYTĖ, Violeta - KURTINAITIENĖ, Bogumila - JAŠKŪNĖ, Kristina - KRETAVIČIUS, Justinas. The influence of storage conditions on invertase, glucose oxidase activity and free acidity of bee bread and bee-collected pollen mixed with honey and vegetable oils. In Journal of Apicultural Research. ISSN 00218839, 2020-10-19, 59, 5, pp. 862-875., Registrované v: SCOPUS

ADCA36 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, art. no. 7340. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-07494-0

Citácie:
1. [1.1] AHMAD, S. - CAMPOS, M.G. - FRATINI, F. - ALTAYE, S.Z. - LI, J.K. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2., Registrované v: WOS
2. [1.1] KUREK-GORECKA, A. - GORECKI, M. - RZEPECKA-STOJKO, A. - BALWIERZ, R. - STOJKO, J. Bee Products in Dermatology and Skin Care. In MOLECULES. FEB 1 2020, vol. 25, no. 3., Registrované v: WOS
3. [1.1] LIN, Y. - ZHANG, M. - WANG, L.Y. - LIN, T.X. - WANG, G.G. - PENG, J.H. - SU, S.K. The in vitro and in vivo wound-healing effects of royal jelly derived from Apis mellifera L. during blossom seasons of Castanea mollissima Bl. and Brassica napus L. in South China exhibited distinct patterns. In BMC COMPLEMENTARY MEDICINE AND THERAPIES. NOV 23 2020, vol. 20, no. 1., Registrované v: WOS
4. [1.1] LIN, Yan - ZHANG, Meng - WANG, Luying - LIN, Tianxing - WANG, Guanggao - PENG, Jianhua - SU, Songkun. The in vitro and in vivo wound-healing effects of royal jelly derived from Apis mellifera L. during blossom seasons of Castanea mollissima Bl. and Brassica napus L. in South China exhibited distinct patterns. In BMC COMPLEMENTARY MEDICINE AND THERAPIES, 2020, vol. 20, no. 1, pp. Dostupné na: https://doi.org/10.1186/s12906-020-03138-5., Registrované v: WOS
5. [1.1] MONTAZER, M. - NAVAEI, T. - RAD, M.M. Preparation of a naturally driven cotton wound dressing via honey, Tragacanth and Sumac. In INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH. ISSN 0971-0426, SEP 2020, vol. 45, no. 3, p. 260-266., Registrované v: WOS
6. [1.1] PENG, Y.Y. - LI, L.H. - YUAN, Q.Y. - GU, P. - YOU, Z.W. - ZHUANG, A. - BI, X.P. Effect of Bifunctional beta Defensin 2-Modified Scaffold on Bone Defect Reconstruction. In ACS OMEGA. ISSN 2470-1343, MAR 3 2020, vol. 5, no. 8, p. 4302-4312., Registrované v: WOS

ADCA37 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - SCLOCCHI, M.C. - BICCHIERI, M. - COLAIZZI, P. - PINZARI, F. - PANGALLO, Domenico. Co-occurrence of bacteria and fungi and spatial partitioning during photographic materials biodeterioration. In Polymer Degradation and Stability, 2014, vol. 108, p. 1–11. (2013: 2.633 - IF, Q2 - JCR, 1.341 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0141-3910. Dostupné na: https://doi.org/10.1016/j.polymdegradstab.2014.05.025

Citácie:
1. [1.1] ALI, M. EFFECT OF FIVE ESSENTIAL OILS AS GREEN DISINFECTANTS ON SELECTED PHOTOGRAPHIC PRINTS: EXPERIMENTAL STUDY. In CONSERVATION SCIENCE IN CULTURAL HERITAGE. ISSN 1974-4951, 2020, vol. 20, p. 79-97., Registrované v: WOS
2. [1.1] GUTAROWSKA, B. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS
3. [1.1] SZULC, J. - RUMAN, T. - KARBOWSKA-BERENT, J. - KOZIELEC, T. - GUTAROWSKA, B. Analyses of microorganisms and metabolites diversity on historic photographs using innovative methods. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 101-113., Registrované v: WOS
4. [1.1] TEPLA, B. - DEMNEROVA, K. - STIBOROVA, H. History and microbial biodeterioration of audiovisual materials. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, JUL-AUG 2020, vol. 44, p. 218-228., Registrované v: WOS

ADCA38 BUČKOVÁ, Mária - GODOČÍKOVÁ, Jana - ZÁMOCKÝ, Marcel - POLEK, Bystrík. Screening of bacterial isolates from polluted soils exhibiting catalase and peroxidase activity and diversity of their responses to oxidative stress. In Current Microbiology, 2010, vol. 61, p. 241-247. (2009: 1.330 - IF, Q4 - JCR, 0.648 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0343-8651. Dostupné na: https://doi.org/10.1007/s00284-010-9601-x

Citácie:
1. [1.1] ELSAEED, E. - ENANY, S. - HANORA, A. - FAHMY, N. Comparative Metagenomic Screening of Aromatic Hydrocarbon Degradation and Secondary Metabolite-Producing Genes in the Red Sea, the Suez Canal, and the Mediterranean Sea. In OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY. ISSN 1536-2310, SEP 1 2020, vol. 24, no. 9, p. 541-550., Registrované v: WOS

ADCA39 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - ŽENIŠOVÁ, K. - KRAKOVÁ, Lucia - PIKNOVA, L. - KUCHTA, T. - PANGALLO, Domenico**. Novel insights into microbial community dynamics during the fermentation of Central European ice wine. In International journal of food microbiology, 2018, vol. 266, p. 42-51. (2017: 3.451 - IF, Q1 - JCR, 1.366 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2017.11.010

Citácie:

1. [1.1] AMROUCHE, T. - MOUNIER, J. - PAWTOWSKI, A. - THOMAS, F. - PICOT, A. Microbiota Associated with Dromedary Camel Milk from Algerian Sahara. In CURRENT MICROBIOLOGY. ISSN 0343-8651, JAN 2020, vol. 77, no. 1, p. 24-31., Registrované v: WOS
2. [1.1] CHEN, Y. - ZHANG, W. - YI, H. - WANG, B. - XIAO, J. - ZHOU, X.Y. - XU, J.K. - JIANG, L. - SHI, X.W. Microbial community composition and its role in volatile compound formation during the spontaneous fermentation of ice wine made from Vidal grapes. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, MAY 2020, vol. 92, p. 365-377., Registrované v: WOS
3. [1.1] FENG, L. - WANG, J.M. - YE, D.Q. - SONG, Y.Y. - QIN, Y. - LIU, Y.L. Yeast population dynamics during spontaneous fermentation of icewine and selection of indigenousSaccharomyces cerevisiaestrains for the winemaking inQilian, China. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, DEC 2020, vol. 100, no. 15, p. 5385-5394., Registrované v: WOS

ADCA40 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - CHOVANOVÁ, Katarína - KRAKOVÁ, Lucia - FERIANC, Peter - PANGALLO, Domenico. A simple strategy for investigating the diversity and hydrocarbon degradation abilities of cultivable bacteria from contaminated soil. In World journal of microbiology and biotechnology, 2013, vol. 29, p. 1085-1098. (2012: 1.262 - IF, Q3 - JCR, 0.585 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-013-1277-5

Citácie:
1. [1.1] ANWAR, Y. - EL-HANAFY, A.A. - SABIR, J.S.M. - AL-GARNI, S.M.S. - AL-GHAMDI, K. - ALMEHDAR, H. - WAQAS, M. Characterization of Mesophilic Bacteria Degrading Crude Oil from Different Sites of Aramco, Saudi Arabia. In POLYCYCLIC AROMATIC COMPOUNDS. ISSN 1040-6638, JAN 1 2020, vol. 40, no. 1, p. 135-143., Registrované v: WOS

ADCA41 BUČKOVÁ, Mária - GODOČÍKOVÁ, Jana - ZÁMOCKÝ, Marcel - POLEK, Bystrík. Isolates of Comamonas spp. exhibiting catalase and peroxidase activities and diversity of their responses to oxidative stress. In Ecotoxicology and environmental safety, 2010, vol. 73, p. 1511-1516. (2009: 2.133 - IF, Q2 - JCR, 1.354 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0147-6513. Dostupné na: https://doi.org/10.1016/j.ecoenv.2010.07.007

Citácie:
1. [1.1] BARCELOS, M.C.S. - RAMOS, C.L. - KUDDUS, M. - RODRIGUEZ-COUTO, S. - SRIVASTAVA, N. - RAMTEKE, P.W. - MISHRA, P.K. - MOLINA, G. Enzymatic potential for the valorization of agro-industrial by-products. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, OCT 2020, vol. 42, no. 10, p. 1799-1827., Registrované v: WOS

ADCA42 BUCHWALD, G. - HOSTINOVÁ, Eva - RUDOLPH, M.G. - KRAEMER, A. - SICKMANN, A. - MEIER, S. - SCHEFFZEK, K. - WITTINGHOFER, A. Conformational switch and role of phosphorylation in PAK activation. In Molecular and Cellular Biology, 2001, vol. 21, p. 5179-5189. ISSN 0270-7306.

Citácie:
1. [1.1] BISWAL, J. - JAYAPRAKASH, P. - SURESH KUMAR, R. - VENKATRAMAN, G. - POOPANDI, S. - RANGASAMY, R. - JEYARAMAN, J. Identification of Pak1 inhibitors using water thermodynamic analysis. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, JAN 2 2020, vol. 38, no. 1, p. 13-31., Registrované v: WOS
2. [1.1] CHEN, K.J. - CHIANG, T.C. - YU, C.J. - LEE, F.J.S. Cooperative recruitment of Arl4A and Pak1 to the plasma membrane contributes to sustained Pak1 activation for cell migration. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, FEB 2020, vol. 133, no. 3., Registrované v: WOS
3. [1.1] YAO, D.H. - LI, C.Y. - RAJOKA, M.S.R. - HE, Z.D. - HUANG, J. - WANG, J.H. - ZHANG, J. P21-Activated Kinase 1: Emerging biological functions and potential therapeutic targets in Cancer. In THERANOSTICS. ISSN 1838-7640, 2020, vol. 10, no. 21, p. 9741-9766., Registrované v: WOS

ADCA43 BUKOVSKÁ, Gabriela - KERRY, V. - KRAUS, J.P. Expression of human cystathionine beta-synthase in Escherichia coli – purification and characterization. In Protein Expression and Purification, 1994, vol. 5, p. 442-448. ISSN 1046-5928.

Citácie:
1. [1.1] FANTEL, A.M. - MYRIANTHOPOULOS, V. - GEORGOULIS, A. - LOUGIAKIS, N. - ZANTZA, I. - LAMPRINIDIS, G. - AUGSBURGER, F. - MARAKOS, P. - VORGIAS, C.E. - SZABO, C. - POULI, N. - PAPAPETROPOULOS, A. - MIKROS, E. Screening of Heteroaromatic Scaffolds against Cystathionine Beta-Synthase Enables Identification of Substituted Pyrazolo[3,4-c]Pyridines as Potent and Selective Orthosteric Inhibitors. In MOLECULES. AUG 2020, vol. 25, no. 16, 3739., Registrované v: WOS
2. [1.1] SONG, A.H. - HUA, Y.M. Cystathionine gamma-lyase-H2S facilitates mandibular defect healing via inducing osteogenic differentiation of bone marrow mesenchymal stem cells. In ARCHIVES OF ORAL BIOLOGY. ISSN 0003-9969, SEP 2020, vol. 117, 104821., Registrované v:

WOS
3. [1.1] WANG, B.Q. - XU, T.H. - LI, Y. - WANG, W.F. - LYU, C.Z. - LUO, D. - YANG, Q.H. - NING, N.N. - CHEN, Z.J. - YAN, J.H. - CHEN, D.B. - LI, J.X. Trophoblast H2S Maintains Early Pregnancy via Regulating Maternal-Fetal Interface Immune Hemostasis. In JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM. ISSN 0021-972X, DEC 2020, vol. 105, no. 12, dgaa357., Registrované v: WOS

ADCA44 CARIDI, A. - SIDARI, R. - KRAKOVÁ, Lucia - KUCHTA, T. - PANGALLO, Domenico. Assessment of color adsorption by yeast using grape skin agar and impact on red wine color. In Journal International des Sciences de la Vigne e du Vin, 2015, vol. 49, p. 195-203. (2014: 0.625 - IF, Q3 - JCR, 0.348 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1151-0285.

Citácie:
1. [1.1] BOZIC, J.T. - BUTINAR, L. - ALBREHT, A. - VOVK, I. - KORTE, D. - VODOPIVEC, B.M. The impact of Saccharomyces and non-Saccharomyces yeasts on wine colour: A laboratory study of vinylphenolic pyranoanthocyanin formation and anthocyanin cell wall adsorption. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, APR 2020, vol. 123, 109072, Registrované v: WOS
2. [1.1] ECHEVERRIGARAY, S. - SCARIOT, F.J. - MENEGOTTO, M. - DELAMARE, A.P.L. Anthocyanin adsorption by Saccharomyces cerevisiae during wine fermentation is associated to the loss of yeast cell wall/membrane integrity. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, FEB 2 2020, vol. 314, 108383, Registrované v: WOS

ADCA45 CIPAKOVA, I. - GAŠPERÍK, Juraj - HOSTINOVÁ, Eva. Expression and purification of human antimicrobial peptide, dermcidin, in Escherichia coli. In Protein Expression and Purification, 2006, vol. 45, p. 269-274. (2005: 1.553 - IF, Q3 - JCR, 0.869 - SJR, Q2 - SJR). ISSN 1046-5928.

Citácie:
1. [1.1] SABRY, N.M. - MOUSSA, T.A.A. Characterization and Antimicrobial Efficacy of Bovine Dermcidin-Like Antimicrobial Peptide Gene. In INTERNATIONAL JOURNAL OF PHARMACEUTICAL AND PHYTOPHARMACOLOGICAL RESEARCH. ISSN 2250-1029, JUN 2020, vol. 10, no. 3, p. 108-117., Registrované v: WOS

ADCA46 DA LAGE, J.L. - FELLER, G. - JANEČEK, Štefan. Horizontal gene transfer from Eukarya to Bacteria and domain shuffling: the alpha-amylase model. In Cellular and Molecular Life Sciences : (CMLS), 2004, vol. 61, p. 97-109. (2003: 4.995 - IF, karentované - CCC). (2004 - Current Contents). ISSN 1420-682X.

Citácie:
1. [1.1] RANE, A.S. - JOSHI, R.S. - GIRI, A.P. Molecular determinant for specificity: Differential interaction of alpha-amylases with their proteinaceous inhibitors. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, DEC 2020, vol. 1864, no. 12., Registrované v: WOS

ADCA47 DA LAGE, J.L. - BINDER, M. - HUA-VAN, A. - JANEČEK, Štefan - CASANE, D. Gene make-up: Rapid and massive intron gains after horizontal transfer of a bacterial α-amylase gene to Basidiomycetes. In BMC Evolutionary Biology, 2013, vol. 13, 40. (2012: 3.285 - IF, Q2 - JCR, 2.027 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1471-2148. Dostupné na: https://doi.org/10.1186/1471-2148-13-40

Citácie:
1. [1.1] TABIMA, J.F. - TRAUTMAN, I.A. - CHANG, Y. - WANG, Y. - MONDO, S. - KUO, A. - SALAMOV, A. - GRIGORIEV, I.V. - STAJICH, J.E. - SPATAFORA, J.W. Phylogenomic Analyses of Non-Dikarya Fungi Supports Horizontal Gene Transfer Driving Diversification of Secondary Metabolism in the Amphibian Gastrointestinal Symbiont,Basidiobolus. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, SEP 2020, vol. 10, no. 9, p. 3417-3433., Registrované v: WOS

ADCA48 DUDÁŠOVÁ, H. - LUKÁČOVÁ, L. - MURÍNOVÁ, S. - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico - DERCOVÁ, Katarína. Bacterial strains isolated from PCB-contaminated sediments and their use for bioaugmentation strategy in microcosms. In Journal of Basic Microbiology, 2014, vol. 54, p. 253–260. (2013: 1.822 - IF, Q3 - JCR, 0.536 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0233-111X. Dostupné na: https://doi.org/10.1002/jobm.201200369

Citácie:
1. [1.1] ALBARANO, L. - COSTANTINI, M. - ZUPO, V. - LOFRANO, G. - GUIDA, M. - LIBRALATO, G. Marine sediment toxicity: A focus on micro- and mesocosms towards remediation. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, MAR 15 2020, vol. 708, 134837, Registrované v: WOS
2. [1.1] CARACCIOLO, A.B. - GRENNI, P. - GARBINI, G.L. - ROLANDO, L. - CAMPANALE, C. - AIMOLA, G. - FERNANDEZ-LOPEZ, M. - FERNANDEZ-GONZALEZ, A.J. - VILLADAS, P.J. - ANCONA, V. Characterization of the Belowground Microbial Community in a Poplar-Phytoremediation Strategy of a Multi-Contaminated Soil. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, AUG 25 2020, vol. 11, 2073, Registrované v: WOS

3. [1.1] CHEN, Y.A. - LIU, P.W.G. - WHANG, L.M. - WU, Y.J. - CHENG, S.S. Effect of soil organic matter on petroleum hydrocarbon degradation in diesel/fuel oil-contaminated soil. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, MAY 2020, vol. 129, no. 5, p. 603-612., Registrované v: WOS
4. [1.1] D';ERRICO, G. - ALOJ, V. - VENTORINO, V. - BOTTIGLIERI, A. - COMITE, E. - RITIENI, A. - MARRA, R. - CENSI, S.B. - FLEMATTI, G.R. - PEPE, O. - VINALE, F. Methyl t-butyl ether-degrading bacteria for bioremediation and biocontrol purposes. In PLOS ONE. ISSN 1932-6203, FEB 21 2020, vol. 15, no. 2, e0228936, Registrované v: WOS
5. [1.1] SANDHU, M. - JHA, P. - PAUL, A.T. - SINGH, R.P. - JHA, P.N. Evaluation of biphenyl- and polychlorinated-biphenyl (PCB) degradingRhodococcussp. MAPN-1 on growth ofMorus albaby pot study. In INTERNATIONAL JOURNAL OF PHYTOREMEDIATION. ISSN 1522-6514, DEC 5 2020, vol. 22, no. 14, p. 1487-1496., Registrované v: WOS
6. [1.1] STELIGA, T. - WOJTOWICZ, K. - KAPUSTA, P. - BRZESZCZ, J. Assessment of Biodegradation Efficiency of Polychlorinated Biphenyls (PCBs) and Petroleum Hydrocarbons (TPH) in Soil Using Three Individual Bacterial Strains and Their Mixed Culture. In MOLECULES. FEB 1 2020, vol. 25, no. 3, 709, Registrované v: WOS
7. [1.1] WOJTOWICZ, K. - STELIGA, T. Study on bioremediation of soil contaminated with polychlorinated biphenyls (PCBs). In NAFTA-GAZ. ISSN 0867-8871, AUG 2020, no. 8, p. 507-516., Registrované v: WOS
8. [1.2] KUMAR, Vineet - THAKUR, Indu Shekhar - SHAH, Maulin P. Bioremediation approaches for treatment of pulp and paper industry wastewater: Recent advances and challenges. In Microbial Bioremediation & Biodegradation, 2020-01-01, pp. 1-48., Registrované v: SCOPUS

ADCA49 DVORSKÝ, Radovan - ŠEVČÍK, Jozef - CAVES, L.S. - HUBBARD, R. - VERMA, C.S. Temperature effects on protein motions: a molecular dynamics study of RNase Sa. In Journal of Physical Chemistry B, 2000, vol. 104, p. 10387-10397. ISSN 1520-6106.

Citácie:

1. [1.1] HEYN, T.R. - MAYER, J. - NEUMANN, H.R. - SELHUBER-UNKEL, C. - KWADE, A. - SCHWARZ, K. - KEPPLER, J.K. The threshold of amyloid aggregation of beta-lactoglobulin: Relevant factor combinations. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, OCT 2020, vol. 283, 110005., Registrované v: WOS

ADCA50 ENTENZA, J.M. - MOREILLON, P. - SENN, M.M. - KORMANEC, Ján - DUNMAN, P. - BERGER-BACHI, B. - PROJAN, S. - BISCHOFF, M. Role of sigmaB in the expression of Staphylococcus aureus cell wall adhesins ClfA and FnbA and contribution to infectivity in a rat model of experimental endocarditis. In Infection and Immunity, 2005, vol. 73, p. 990-998. ISSN 0019-9567.

Citácie:

1. [1.1] DITKOWSKI, B. - LEETEN, K. - JASHARI, R. - JONES, E. - HEYING, R. Staphylococcus aureus adheres avidly to decellularised cardiac homograft tissue in vitro in the fibrinogen-dependent manner. In CARDIOLOGY IN THE YOUNG. ISSN 1047-9511, DEC 2020, vol. 30, no. 12, p. 1783-1787., Registrované v: WOS
2. [1.1] PETRIE, L.E. - LEONARD, A.C. - MURPHY, J. - COX, G. Development and validation of a high-throughput whole cell assay to investigate Staphylococcus aureus adhesion to host ligands. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, DEC 4 2020, vol. 295, no. 49, p. 16700-16712., Registrované v: WOS
3. [1.1] SCHILCHER, K. - HORSWILL, A.R. Staphylococcal Biofilm Development: Structure, Regulation, and Treatment Strategies. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, SEP 2020, vol. 84, no. 3., Registrované v: WOS

ADCA51 EREñO-ORBEA, J. - MAJTÁN, Tomáš - OYENARTE, I. - KRAUS, J.P. - MARTÍNEZ-CRUZ, L.A. Structural basis of regulation and oligomerization of human cystathionine β-synthase, the central enzyme of transsulfuration. In Proceedings of the National Academy of Sciences of the United States of America, 2013, vol. 110, no. 40, p. E3790-E3799. (2012: 9.737 - IF, Q1 - JCR, 6.868 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.1313683110

Citácie:

1. [1.1] ANASHKIN, V.A. - SALMINEN, A. - ORLOV, V.N. - LAHTI, R. - BAYKOV, A.A. The tetrameric structure of nucleotide-regulated pyrophosphatase and its modulation by deletion mutagenesis and ligand binding. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, OCT 15 2020, vol. 692, 108537., Registrované v: WOS
2. [1.1] GIUFFRE, A. - TOME, C.S. - FERNANDES, D.G.F. - ZUHRA, K. - VICENTE, J.B. Hydrogen Sulfide Metabolism and Signaling in the Tumor Microenvironment. In TUMOR MICROENVIRONMENT: THE MAIN DRIVER OF METABOLIC ADAPTATION. ISSN 0065-2598, 2020, vol. 1219, p. 335-353., Registrované v: WOS
3. [1.1] RAHMAN, A. - GLASGOW, J.N. - NADEEM, S. - REDDY, V.P. - SEVALKAR, R.R. -

LANCASTER, Jr - STEYN, A.J.C. The Role of Host-Generated H2S in Microbial Pathogenesis: New Perspectives on Tuberculosis. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, NOV 10 2020, vol. 10, 586923., Registrované v: WOS
4. [1.1] STIPANUK, M.H. Metabolism of Sulfur-Containing Amino Acids: How the Body Copes with Excess Methionine, Cysteine, and Sulfide. In JOURNAL OF NUTRITION. ISSN 0022-3166, OCT 2020, vol. 150, p. 2494S-2505S., Registrované v: WOS
5. [1.1] SUN, S. - WEILE, J. - VERBY, M. - WU, Y.Z. - WANG, Y. - COTE, A.G. - FOTIADOU, I. - KITAYGORODSKY, J. - VIDAL, M. - RINE, J. - JESINA, P. - KOZICH, V. - ROTH, F.P. A proactive genotype-to-patient-phenotype map for cystathionine beta-synthase. In GENOME MEDICINE. ISSN 1756-994X, JAN 30 2020, vol. 12, no. 1, 13., Registrované v: WOS

ADCA52 FARKAŠOVSKÁ, Jarmila - GODÁNY, Andrej - VLCEK, C. Identification of a holin encoded by the Streptomyces aureofaciens phage micro1/6; functional analysis in Escherichia coli system. In Folia microbiologica, 2004, vol. 49, p. 679-684. (2003: 0.857 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0015-5632.

Citácie:

1. [1.1] LU, N.N. - SUN, Y.M. - WANG, Q.Q. - QIU, Y. - CHEN, Z. - WEN, Y. - WANG, S.W. - SONG, Y. Cloning and characterization of endolysin and holin from Streptomyces avermitilis bacteriophage phiSASD1 as potential novel antibiotic candidates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, MAR 15 2020, vol. 147, p. 980-989., Registrované v: WOS

ADCA53 FARKAŠOVSKÁ, Jarmila - GODÁNY, Andrej - VLCEK, C. Identification and Characterization of an Endolysin Encoded by the Streptomyces aureofaciens Phage µ1/6. In Folia microbiologica, 2003, vol. 48, p. 737-744. (2002: 0.979 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0015-5632.

Citácie:

1. [1.1] LU, N.N. - SUN, Y.M. - WANG, Q.Q. - QIU, Y. - CHEN, Z. - WEN, Y. - WANG, S.W. - SONG, Y. Cloning and characterization of endolysin and holin from Streptomyces avermitilis bacteriophage phiSASD1 as potential novel antibiotic candidates. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, MAR 15 2020, vol. 147, p. 980-989., Registrované v: WOS

ADCA54 FARKAŠOVSKÁ, Jarmila - BUGÁROVÁ, Veronika - GODOČÍKOVÁ, Jana - MAJTAN, V. - MAJTÁN, Juraj**. The role of hydrogen peroxide in the antibacterial activity of different floral honeys. In European Food Research and Technology, 2019, vol. 245, p. 2739–2744. (2018: 2.056 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-019-03393-y

Citácie:

1. [1.1] HU, F.L. - CHEN, Z.L. - TAN, Y. - XU, D. - HUANG, S.L. - JIA, S.Q. - GONG, X.N. - QIN, W.L. - YAN, H.L. Organocatalytic Enantioselective gamma-Elimination: Applications in the Preparation of Chiral Peroxides and Epoxides. In ORGANIC LETTERS. ISSN 1523-7060, MAR 6 2020, vol. 22, no. 5, p. 1934-1940., Registrované v: WOS

ADCA55 FARKAŠOVSKÝ, Marian - KUNTZEL, H. Cortical Num1p interacts with the dynein intermediate chain Pac11p and cytoplasmic microtubules in budding yeast. In Journal of Cell Biology, 2001, vol. 152, p. 251-262. ISSN 0021-9525.

Citácie:

1. [1.1] ICHIKAWA, M. - WATANABE, Y. - MURAYAMA, T. - SAITO, K. - KOBAYASHI, T. - SAKAKIBARA, H. - ISHIKAWA, T. - TOYOSHIMA, Y.Y. Subunit Architecture of the Cytoplasmic Dynein Tail. In HANDBOOK OF DYNEIN, 2ND EDITION. 2019, p. 99-116., Registrované v: WOS
2. [1.1] KLECKER, T. - WESTERMANN, B. Asymmetric inheritance of mitochondria in yeast. In BIOLOGICAL CHEMISTRY. ISSN 1431-6730, MAY 2020, vol. 401, no. 6-7, p. 779-791., Registrované v: WOS
3. [1.1] KRAFT, L.M. - LACKNER, L.L. A conserved mechanism for mitochondria-dependent dynein anchoring. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, MAR 1 2019, vol. 30, no. 5, p. 691-702., Registrované v: WOS
4. [1.1] LACKNER, L.L. The Expanding and Unexpected Functions of Mitochondria Contact Sites. In TRENDS IN CELL BIOLOGY. ISSN 0962-8924, JUL 2019, vol. 29, no. 7, p. 580-590., Registrované v: WOS
5. [1.1] QIU, L. - FENG, J.D. - DAI, Y.D. - CHANG, S.Q. Mechanisms of strontium';s adsorption by Saccharomyces cerevisiae: Contribution of surface and intracellular uptakes. In CHEMOSPHERE. ISSN 0045-6535, JAN 2019, vol. 215, p. 15-24., Registrované v: WOS
6. [1.1] RUDLAFF, R.M. - KRAEMER, S. - STREVA, V.A. - DVORIN, J.D. An essential contractile ring protein controls cell division in Plasmodium falciparum. In NATURE COMMUNICATIONS. ISSN 2041-1723, MAY 16 2019, vol. 10., Registrované v: WOS

7. [1.2] MAEKAWA, Hiromi - DRUMMOND, Douglas R. Microtubules in non-conventional yeasts. In Non-conventional Yeasts: from Basic Research to Application, 2019-01-01, pp. 237-296., Registrované v: SCOPUS

ADCA56 FERIANC, Peter - FAREWELL, A. - NYSTROM, T. The cadmium-stress stimulon of Escherichia coli K-12. In Microbiology, 1998, vol. 144, p. 1045-1050. ISSN 1350-0872.

Citácie:

1. [1.1] PANYUSHKINA, A. - MATYUSHKINA, D. - POBEGUTS, O. Understanding Stress Response to High-Arsenic Gold-Bearing Sulfide Concentrate in Extremely Metal-Resistant AcidophileSulfobacillus thermotolerans. In MICROORGANISMS. JUL 2020, vol. 8, no. 7., Registrované v: WOS

2. [1.1] SALAM, L.T. - OBAYORI, O.S. - ILORI, M.O. - AMUND, O.O. Effects of cadmium perturbation on the microbial community structure and heavy metal resistome of a tropical agricultural soil. In BIORESOURCES AND BIOPROCESSING. MAY 11 2020, vol. 7, no. 1., Registrované v: WOS

ADCA57 FRANDSEN, N. - BARÁK, Imrich - KARMAZYN-CAMPELLI, C. - STRAGIER, P. Transient gene asymmetry during sporulation and establishment of cell specificity in Bacillus subtilis. In Genes & Development, 1999, vol. 13, 394-399. ISSN 0890-9369.

Citácie:

1. [1.1] WILLIS, C. - ERRINGTON, J. - WU, L.J. Cohesion of Sister Chromosome Termini during the Early Stages of Sporulation in Bacillus subtilis. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, OCT 2020, vol. 202, no. 20,, Registrované v: WOS

ADCA58 GABRIŠKO, Marek - JANEČEK, Štefan. Characterization of maltase clusters in the genus Drosophila. In Journal of Molecular Evolution, 2011, vol. 72, p. 104-118. (2010: 2.311 - IF, Q3 - JCR, 1.478 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0022-2844. Dostupné na: https://doi.org/10.1007/s00239-010-9406-3

Citácie:

1. [1.1] MIYAZAKI, T. - PARK, E.Y. Structure?function analysis of silkworm sucrose hydrolase uncovers the mechanism of substrate specificity in GH13 subfamily 17exo-?-glucosidases. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, JUN 26 2020, vol. 295, no. 26, p. 8784-8797., Registrované v: WOS

2. [1.1] SCANNAPIECO, A.C. - CONTE, C.A. - RIVAROLA, M. - WULFF, J.P. - MUNTAABSKI, I. - RIBONE, A. - MILLA, F. - CLADERA, J.L. - LANZAVECCHIA, S.B. Transcriptome analysis of Anastrepha fraterculus sp. 1 males, females, and embryos: insights into development, courtship, and reproduction. In BMC GENETICS. ISSN 1471-2156, DEC 18 2020, vol. 21, SI., Registrované v: WOS

ADCA59 GABRIŠKO, Marek - JANEČEK, Štefan. Looking for the ancestry of the heavy-chain subunits of heteromeric amino acid transporters rBAT and 4F2hc within the GH13 alpha-amylase family. In FEBS Journal, 2009, vol. 276, p. 7265-7278. (2008: 3.139 - IF, Q2 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1742-464X.

Citácie:

1. [1.1] DENECKE, S.M. - DRIVA, O. - LUONG, H.N.B. - IOANNIDIS, P. - LINKA, M. - NAUEN, R. - GEIBEL, S. - VONTAS, J. The Identification and Evolutionary Trends of the Solute Carrier Superfamily in Arthropods. In GENOME BIOLOGY AND EVOLUTION. ISSN 1759-6653, AUG 2020, vol. 12, no. 8, p. 1429-1439., Registrované v: WOS

2. [1.1] WU, D. - GRUND, T.N. - WELSCH, S. - MILLS, D.J. - MICHEL, M. - SAFARIAN, S. - MICHEL, H. Structural basis for amino acid exchange by a human heteromeric amino acid transporter. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 1 2020, vol. 117, no. 35, p. 21281-21287., Registrované v: WOS

3. [1.1] YAN, R.H. - LI, Y.N. - SHI, Y. - ZHOU, J.Y. - LEI, J.L. - HUANG, J. - ZHOU, Q. Cryo-EM structure of the human heteromeric amino acid transporter b(0,+) AT-rBAT. In SCIENCE ADVANCES. ISSN 2375-2548, APR 2020, vol. 6, no. 16., Registrované v: WOS

ADCA60 GABRIŠKO, Marek - JANEČEK, Štefan. Novel family GH3 β-glucosidases or β-xylosidases of unknown function found in various animal groups, including birds and reptiles. In Carbohydrate Research, 2015, vol. 408, p. 44–50. (2014: 1.929 - IF, Q2 - JCR, 0.640 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2015.02.004

Citácie:

1. [1.1] MIYAZAKI, T. - PARK, E.Y. Structure?function analysis of silkworm sucrose hydrolase uncovers the mechanism of substrate specificity in GH13 subfamily 17exo-?-glucosidases. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, JUN 26 2020, vol. 295, no. 26, p. 8784-8797., Registrované v: WOS

2. [1.1] RESZKA, M. - SERDIUK, I.E. - KOZAKIEWICZ, K. - NOWACKI, A. - MYSZKA, H. -

BOJARSKI, P. - LIBEREK, B. Influence of a 4 ';-substituent on the efficiency of flavonol-based fluorescent indicators of beta-glycosidase activity. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, OCT 14 2020, vol. 18, no. 38, p. 7635-7648., Registrované v: WOS

3. [1.1] SCANNAPIECO, A.C. - CONTE, C.A. - RIVAROLA, M. - WULFF, J.P. - MUNTAABSKI, I. - RIBONE, A. - MILLA, F. - CLADERA, J.L. - LANZAVECCHIA, S.B. Transcriptome analysis of Anastrepha fraterculus sp. 1 males, females, and embryos: insights into development, courtship, and reproduction. In BMC GENETICS. ISSN 1471-2156, DEC 18 2020, vol. 21, SI136., Registrované v: WOS

ADCA61 GABRIŠKO, Marek. Evolutionary history of eukaryotic alpha-glucosidases from the alpha-amylase family. In Journal of Molecular Evolution, 2013, vol. 76, p. 129-145. (2012: 2.145 - IF, Q3 - JCR, 1.384 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0022-2844. Dostupné na: https://doi.org/10.1007/s00239-013-9545-4

Citácie:

1. [1.1] MIYAZAKI, T. - PARK, E.Y. Structure?function analysis of silkworm sucrose hydrolase uncovers the mechanism of substrate specificity in GH13 subfamily 17exo-?-glucosidases. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, JUN 26 2020, vol. 295, no. 26, p. 8784-8797., Registrované v: WOS

2. [1.1] VISNAPUU, T. - MELDRE, A. - POSNOGRAJEVA, K. - VIIGAND, K. - ERNITS, K. - ALAMAE, T. Characterization of a Maltase from an Early-Diverged Non-Conventional Yeast Blastobotrys adeninivorans. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 1 2020, vol. 21, no. 1., Registrované v: WOS

ADCA62 GARCÍA-NAFRÍA, J. - ONDROVIČOVÁ, Gabriela - BLAGOVA, E. - LEVDIKOV, V. - BAUER, Jacob - SUZUKI, C.K. - KUTEJOVÁ, Eva - WILKINSON, A.J. Structure of the catalytic domain of the human mitochondrial Lon protease: Proposed relation of oligomer formation and activity. In Protein Science, 2010, vol. 19, p. 987-999. (2009: 2.937 - IF, Q2 - JCR, 2.290 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0961-8368. Dostupné na: https://doi.org/10.1002/pro.376

Citácie:

1. [1.1] BOTOS, I. - LOUNTOS, G.T. - WU, W.M. - CHERRY, S. - GHIRLANDO, R. - KUDZHAEV, A.M. - ROTANOVA, T.V. - DE VAL, N. - TROPEA, J.E. - GUSTCHINA, A. - WLODAWER, A. Cryo-EM structure of substrate-free E. coli Lon protease provides insights into the dynamics of Lon machinery. In CURRENT RESEARCH IN STRUCTURAL BIOLOGY. NOV 2019, vol. 1, p. 13-20., Registrované v: WOS

2. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS

3. [1.1] SHA, Z. - CHILAKALA, S. - CRABILL, G. - CHENG, I. - XU, Y. - FISHOVITZ, J. - LEE, I. A Proteolytic Site-Directed Affinity Label to Inhibit the Human ATP-Dependent Protease Caseinolytic Complex XP. In CHEMBIOCHEM. ISSN 1439-4227, JUL 16 2020, vol. 21, no. 14, p. 2049-2059., Registrované v: WOS

ADCA63 GEROVÁ, Martina - HALGAŠOVÁ, Nora - UGORČÁKOVÁ, Jana - BUKOVSKÁ, Gabriela. Endolysin of bacteriophage BFK20: evidence of a catalytic and a cell wall binding domain. In FEMS Microbiology Letters, 2011, vol. 321, p. 83-91. (2010: 2.040 - IF, Q3 - JCR, 1.081 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2011.02312.x

Citácie:

1. [1.1] CHELEUITTE-NIEVES, C. - HESELPOTH, R.D. - WESTBLADE, L.F. - LIPMAN, N.S. - FISCHETTI, V.A. Searching for a Bacteriophage Lysin to Treat Corynebacterium bovis in Immunocompromised Mice. In COMPARATIVE MEDICINE. ISSN 1532-0820, AUG 2020, vol. 70, no. 4, p. 328-335., Registrované v: WOS

2. [1.1] DIETRICH, C. - DE LA SIERRA-GALLAY, I.L. - MASI, M. - GIRARD, E. - DAUTIN, N. - CONSTANTINESCO-BECKER, F. - TROPIS, M. - DAFFE, M. - VAN TILBEURGH, H. - BAYAN, N. The C-terminal domain ofCorynebacterium glutamicummycoloyltransferase A is composed of five repeated motifs involved in cell wall binding and stability. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, JUL 2020, vol. 114, no. 1, p. 1-16., Registrované v: WOS

3. [1.2] THAM, Hong Y. - SONG, Adelene A.L. - YUSOFF, Khatijah - TAN, Geok H. Effect of different cloning strategies in pet-28a on solubility and functionality of a staphylococcal phage endolysin. In BioTechniques. ISSN 07366205, 2020-09-01, 69, 3, pp. 161-170., Registrované v: SCOPUS

ADCA64 GHORBEL, S. - KORMANEC, Ján - ARTUS, A. - VIROLLE, M.J. Transcriptional studies and regulatory interactions between the phoR/phoP operon and the phoU, mtpA and ppk genes of

Streptomyces lividans TK24. In Journal of Bacteriology, 2006, vol. 188, p. 677-686. (2005: 4.167 - IF, Q1 - JCR, 2.660 - SJR, Q1 - SJR). ISSN 0021-9193.

Citácie:

1. [1.1] MARTIN, J.F. - LIRAS, P. The Balance Metabolism Safety Net: Integration of Stress Signals by Interacting Transcriptional Factors in Streptomyces and Related Actinobacteria. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, JAN 22 2020, vol. 10., Registrované v: WOS

2. [1.1] ROSALES-HURTADO, M. - MEFFRE, P. - SZURMANT, H. - BENFODDA, Z. Synthesis of histidine kinase inhibitors and their biological properties. In MEDICINAL RESEARCH REVIEWS. ISSN 0198-6325, JUL 2020, vol. 40, no. 4, p. 1440-1495., Registrované v: WOS

ADCA65 GHORBEL, S. - SMIRNOV, A. - CHOUAYEKH, H. - SPERANDIO, B. - ESNAULT, C. - KORMANEC, Ján - VIROLLE, M.J. Regulation of ppk expression and in vivo function of Ppk in Streptomyces lividans TK24. In Journal of Bacteriology, 2006, vol. 188, p. 6269-6279. (2005: 4.167 - IF, Q1 - JCR, 2.660 - SJR, Q1 - SJR). ISSN 0021-9193.

Citácie:

1. [1.1] LI, X.B. - CHEN, J. - ANDERSEN, J.M. - CHU, J. - JENSEN, P.R. Cofactor Engineering Redirects Secondary Metabolism and Enhances Erythromycin Production in Saccharopolyspora erythraea. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, MAR 20 2020, vol. 9, no. 3, p. 655-670., Registrované v: WOS

ADCA66 GIMÉNEZ-MASCARELL, P. - MAJTÁN, T. - OYENARTE, I. - EREñO-ORBEA, J. - MAJTÁN, Juraj - KLAUDINY, Jaroslav - KRAUS, J.P. - MARTÍNEZ-CRUZ, L.A.**. Crystal structure of cystathionine β-synthase from honeybee Apis mellifera. In Journal of Structural Biology, 2018, vol. 202, p. 82-93. (2017: 3.433 - IF, Q2 - JCR, 3.948 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2017.12.008

Citácie:

1. [1.2] LAN, Jiafu - LIANG, Ye - LI, Jindu - ZENG, Dechuang - LI, Tianzi - PAN, Xingshou. Mutation of cystathionine gene in patients with carotid plaque and its correlation with clinic. In Chinese Journal of Clinical Nutrition. ISSN 1674635X, 2020-10-30, 28, 5, pp. 283-289., Registrované v: SCOPUS

2. [1.2] MOHAMMED, Ammar A. - ALI, Bushra H. CORRELATION STUDY BETWEEN METHIONINE SYNTHASE, CYSTATHIONINE B SYNTHASE WITH CLASSIC PARAMETERS AFTER TREATED WITH JANUVIA IN IRAQI DIABETIC PATIENT';S TYPE 2 AND COMPLICATION. In Biochemical and Cellular Archives. ISSN 09725075, 2020-10-01, 20, 2, pp. 6623-6628., Registrované v: SCOPUS

ADCA67 GLORIEUX, Ch. - ZÁMOCKÝ, Marcel - SANDOVAL, J.M. - VERRAX, J. - CALDERON, P.B. Regulation of catalase expression in healthy and cancerous cells. In Free Radical Biology and Medicine, 2015, vol. 87, p. 84-97. (2014: 5.736 - IF, Q1 - JCR, 2.469 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0891-5849. Dostupné na: https://doi.org/10.1016/j.freeradbiomed.2015.06.017

Citácie:

1. [1.1] ADAM, A.A.A. - JONGEJAN, A. - MOERLAND, P.D. - VAN DER MARK, V.A. - ELFERINK, R.P.O. - CHAMULEAU, R.A.F.M. - HOEKSTRA, R. Genome-wide expression profiling reveals increased stability and mitochondrial energy metabolism of the human liver cell line HepaRG-CAR. In CYTOTECHNOLOGY. ISSN 0920-9069, JUN 2020, vol. 72, no. 3, p. 377-395., Registrované v: WOS

2. [1.1] AL-HARBI, S.A. - AL-SAIDI, H.M. - DEBBABI, K.F. - ALLEHYANI, E.S. - ALQORASHI, A.A. - EMARA, A.A.A. Design and anti-tumor evaluation of new platinum (II) and copper(II) complexes of nitrogen compounds containing selenium moieties. In JOURNAL OF SAUDI CHEMICAL SOCIETY. ISSN 1319-6103, DEC 2020, vol. 24, no. 12, p. 982-995., Registrované v: WOS

3. [1.1] ALLEGRA, A. - PIOGGIA, G. - TONACCI, A. - CASCIARO, M. - MUSOLINO, C. - GANGEMI, S. Synergic Crosstalk between Inflammation, Oxidative Stress, and Genomic Alterations in BCR-ABL-Negative Myeloproliferative Neoplasm. In ANTIOXIDANTS. NOV 2020, vol. 9, no. 11, 1037., Registrované v: WOS

4. [1.1] BLASCO, N. - BEA, A. - BARES, G. - GIRON, C. - NAVARIDAS, R. - IRAZOKI, A. - LOPEZ-LLUCH, G. - ZORZANO, A. - DOLCET, X. - LLOVERA, M. - SANCHIS, D. Involvement of the mitochondrial nuclease EndoG in the regulation of cell proliferation through the control of reactive oxygen species. In REDOX BIOLOGY. ISSN 2213-2317, OCT 2020, vol. 37, 101736., Registrované v: WOS

5. [1.1] CAO, Y.Q. - CHEN, Y. - WANG, F. - WANG, Y.G. - LONG, J. PARP1 might enhance the therapeutic effect of tetrahydroxystilbene glucoside in traumatic brain injury via inhibition of Ras/JNK signalling pathway. In FOLIA NEUROPATHOLOGICA. ISSN 1641-4640, 2020, vol. 58, no. 1, p. 45-56., Registrované v: WOS

6. [1.1] CHEN, W.J. - YAN, X.Y. - TIAN, T. - YAN, R. - WANG, X.Y. - YU, Z.B. - LI, Y.Z. -

ZHANG, L. - HAN, S.P. Integrated analysis of a lncRNA-mRNA network reveals a potential mechanism underlying necrotizing enterocolitis. In MOLECULAR MEDICINE REPORTS. ISSN 1791-2997, JUL 2020, vol. 22, no. 1, p. 423-435., Registrované v: WOS
7. [1.1] COELHO, M.C. - QUEIROZ, I.C. - VIANA, J.M.C. - DE AQUINO, S.G. - PERSUHN, D.C. - DE OLIVEIRA, N.F.P. miR-9-1 gene methylation and DNMT3B (rs2424913) polymorphism may contribute to periodontitis. In JOURNAL OF APPLIED ORAL SCIENCE. ISSN 1678-7757, 2020, vol. 28, e20190583, Registrované v: WOS
8. [1.1] CUI, G.F. - DONG, Q. - DUAN, J.B. - ZHANG, C.C. - LIU, X. - HE, Q. NC2 complex is a key factor for the activation of catalase-3 transcription by regulating H2A.Z deposition. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, SEP 4 2020, vol. 48, no. 15, p. 8332-8348., Registrované v: WOS
9. [1.1] DA SILVA, F.F. - DA SILVA, J.M. - DA SILVA, T.D. - TENORIO, B.M. - TENORIO, F.D.A.M. - SANTOS, E.L. - MACHADO, S.S. - SOARES, E.C. Evaluation of Nile tilapia (Oreochromis niloticus) fingerlings exposed to the pesticide pyriproxyfen. In LATIN AMERICAN JOURNAL OF AQUATIC RESEARCH. ISSN 0718-560X, 2020, vol. 48, no. 5, p. 826-835., Registrované v: WOS
10. [1.1] DEVYATKIN, A. - PAVLOVA, O. - GULENKO, O. - BORISKIN, P. Study of changes in catalase activity in rat brain under mechanical influence on hemato-ophthalmic barrier. In INNOVATIVE TECHNOLOGIES IN SCIENCE AND EDUCATION (ITSE-2020). ISSN 2267-1242, 2020, vol. 210., Registrované v: WOS
11. [1.1] DUAN, J.B. - LIU, Q.Q. - SU, S. - CHA, J. - ZHOU, Y.K. - TANG, R.Q. - LIU, X. - WANG, Y. - LIU, Y. - HE, Q. The Neurospora RNA polymerase II kinase CTK negatively regulates catalase expression in a chromatin context-dependent manner. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, JAN 2020, vol. 22, no. 1, p. 76-90., Registrované v: WOS
12. [1.1] EL-MAHDY, M.A. - ALZARIE, Y.A. - HEMANN, C. - BADARY, O.A. - NOFAL, S. - ZWEIER, J.L. The novel SOD mimetic GC4419 increases cancer cell killing with sensitization to ionizing radiation while protecting normal cells. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, NOV 20 2020, vol. 160, p. 630-642., Registrované v: WOS
13. [1.1] GARCIA-CUELLAR, C.M. - CHIRINO, Y.I. - MORALES-BARCENAS, R. - SOTO-REYES, E. - QUINTANA-BELMARES, R. - SANTIBANEZ-ANDRADE, M. - SANCHEZ-PEREZ, Y. Airborne Particulate Matter (PM10) Inhibits Apoptosis through PI3K/AKT/FoxO3a Pathway in Lung Epithelial Cells: The Role of a Second Oxidant Stimulus. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2, 473., Registrované v: WOS
14. [1.1] GONZALEZ-MUNDO, I. - PEREZ-VIELMA, N.M. - GOMEZ-LOPEZ, M. - FLEURY, A. - CORREA-BASURTO, J. - ROSALES-HERNANDEZ, M.C. - SIXTO-LOPEZ, Y. - MARTINEZ-GODINEZ, M.D. - DOMINGUEZ-LOPEZ, A. - MILIAR-GARCIA, A. DNA methylation of the RE-1 silencing transcription factor in peripheral blood mononuclear cells and gene expression of antioxidant enzyme in patients with late-onset Alzheimer disease. In EXPERIMENTAL GERONTOLOGY. ISSN 0531-5565, JUL 15 2020, vol. 136, 110951., Registrované v: WOS
15. [1.1] GRILO, L.F. - MARTINS, J.D. - CAVALLARO, C.H. - NATHANIELSZ, P.W. - OLIVEIRA, P.J. - PEREIRA, S.P. Development of a 96-well based assay for kinetic determination of catalase enzymatic-activity in biological samples. In TOXICOLOGY IN VITRO. ISSN 0887-2333, DEC 2020, vol. 69., Registrované v: WOS
16. [1.1] GUO, L.H. - QI, J.X. - DU, D. - LIU, Y. - JIANG, X. Current advances ofDendrobium officinalepolysaccharides in dermatology: a literature review. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, JAN 1 2020, vol. 58, no. 1, p. 664-673., Registrované v: WOS
17. [1.1] HAMZA, T.A. - HADWAN, M.H. New Spectrophotometric Method for the Assessment of Catalase Enzyme Activity in Biological Tissues. In CURRENT ANALYTICAL CHEMISTRY. ISSN 1573-4110, 2020, vol. 16, no. 8, p. 1054-1062., Registrované v: WOS
18. [1.1] KAMRAN, M.R. - ZARGAN, J. - ALIKHANI, H.K. - HAJINOORMOHAMADI, A. The Comparative Cytotoxic Effects of Apis mellifera Crude Venom on MCF-7 Breast Cancer Cell Line in 2D and 3D Cell Cultures. In INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS. ISSN 1573-3149, DEC 2020, vol. 26, no. 4, p. 1819-1828., Registrované v: WOS
19. [1.1] KUBIAK-TOMASZEWSKA, G. - TOMASZEWSKI, P. - PACHECKA, J. - STRUGA, M. - OLEJARZ, W. - MIELCZAREK-PUTA, M. - NOWICKA, G. Molecular mechanisms of ethanol biotransformation: enzymes of oxidative and nonoxidative metabolic pathways in human. In XENOBIOTICA. ISSN 0049-8254, OCT 2 2020, vol. 50, no. 10, p. 1180-1201., Registrované v: WOS
20. [1.1] LAUAR, M.R. - COLOMBARI, D.S.A. - COLOMBARI, E. - DE PAULA, P.M. - DE LUCA, L.A. - MENANI, J.V. Catalase blockade reduces the pressor response to central cholinergic activation. In BRAIN RESEARCH BULLETIN. ISSN 0361-9230, NOV 2019, vol. 153, p. 266-272., Registrované v: WOS

21. [1.1] LI, H.X. - HUANG, X.N. - ZHAN, A.B. Stress Memory of Recurrent Environmental Challenges in Marine Invasive Species: Ciona robusta as a Case Study. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, FEB 13 2020, vol. 11, 94., Registrované v: WOS
22. [1.1] MAHMOUD, I.F. - KANTHIMATHI, M.S. - AZIZ, A.A. ROS/RNS-mediated apoptosis in HT-29 colorectal cancer cells by methanolic extract of Tamarindus indica seeds. In EUROPEAN JOURNAL OF INTEGRATIVE MEDICINE. ISSN 1876-3820, DEC 2020, vol. 40., Registrované v: WOS
23. [1.1] MCOYI, S. - AMOAKO, D.G. - SOMBORO, A.M. - KHUMALO, H.M. - KHAN, R.B. The molecular effect of 1,4,7-triazacyclononane on oxidative stress parameters in human hepatocellular carcinoma (HepG2) cells. In JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY. ISSN 1095-6670, DEC 2020, vol. 34, no. 12, e22607., Registrované v: WOS
24. [1.1] NARAYANAN, D. - MA, S.N. - OZCELIK, D. Targeting the Redox Landscape in Cancer Therapy. In CANCERS. JUL 2020, vol. 12, no. 7, 1706., Registrované v: WOS
25. [1.1] PHUNG, C.D. - TRAN, T.H. - PHAM, L.M. - NGUYEN, H.T. - JEONG, J.H. - YONG, C.S. - KIM, J.O. Current developments in nanotechnology for improved cancer treatment, focusing on tumor hypoxia. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, AUG 10 2020, vol. 324, p. 413-429., Registrované v: WOS
26. [1.1] PIECUCH, A. - KUREK, J. - KUCHARZEWSKI, M. - WYROBIEC, G. - JASINSKI, D. - BRZOZOWA-ZASADA, M. Catalase immunoexpression in colorectal lesions. In GASTROENTEROLOGY REVIEW-PRZEGLAD GASTROENTEROLOGICZNY. ISSN 1895-5770, 2020, vol. 15, no. 4, p. 330-337., Registrované v: WOS
27. [1.1] PUDLARZ, A.M. - CZECHOWSKA, E. - KARBOWNIK, M.S. - RANOSZEK-SOLIWODA, K. - TOMASZEWSKA, E. - CELICHOWSKI, G. - GROBELNY, J. - CHABIELSKA, E. - GROMOTOWICZ-POPLAWSKA, A. - SZEMRAJ, J. The effect of immobilized antioxidant enzymes on the oxidative stress in UV-irradiated rat skin. In NANOMEDICINE. ISSN 1743-5889, JAN 2020, vol. 15, no. 1, p. 23-39., Registrované v: WOS
28. [1.1] REZAEI, F. - FATHOLAHI, S. - REZAEI, F. Assessment of salivary antioxidant status and immunoglobulin E in patients with geographic tongue. In JOURNAL OF FAMILY MEDICINE AND PRIMARY CARE. ISSN 2249-4863, JAN 2020, vol. 9, no. 1, p. 72-76., Registrované v: WOS
29. [1.1] ROBINSON, R. - SRINIVASAN, M. - SHANMUGAM, A. - WARD, A. - GANAPATHY, V. - BLOOM, J. - SHARMA, A. - SHARMA, S. Interleukin-6 trans-signaling inhibition prevents oxidative stress in a mouse model of early diabetic retinopathy. In REDOX BIOLOGY. ISSN 2213-2317, JUL 2020, vol. 34, 101574., Registrované v: WOS
30. [1.1] UDDIN, M.N. - SAMAD, M.A. - ABU ZUBAIR, M. - HAQUE, M.Z. - MITRA, K. - KHAN, T.A. - HOSSAIN, M.A. - SYED, A. - AFROZE, A. Potential bioactive phytochemicals, antioxidant properties and anticancer pathways of Nymphaea nouchali. In ASIAN PACIFIC JOURNAL OF TROPICAL BIOMEDICINE. ISSN 2221-1691, DEC 2020, vol. 10, no. 12, p. 555-+., Registrované v: WOS
31. [1.1] WANG, F.S. - WU, W.H. - HSIU, W.S. - LIU, Y.J. - CHUANG, K.W. Genome-Scale Metabolic Modeling with Protein Expressions of Normal and Cancerous Colorectal Tissues for Oncogene Inference. In METABOLITES. JAN 2020, vol. 10, no. 1, 16, Registrované v: WOS
32. [1.1] ZHANG, H. - LUAN, L.Y. - BI, M.J. - ZHAO, L.N. - YUAN, L. - FENG, J. - LIU, R.T. In vivo and in vitro studies on inactivation of selenium containing protein- glutathione peroxidase 3 in mice nephrocytes caused by lead. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, OCT 15 2020, vol. 203, 111008., Registrované v: WOS
33. [1.1] ZHANG, J. - WANG, H. - YI, S. - GUO, Z.M. - HUANG, Y. - LI, W.F. - ZHAO, X. - LIU, H.Z. Protective effect of Insect tea primary leaf (Malus sieboldii(Regal) Rehd.) extract on H2O2-induced oxidative damage in human embryonic kidney 293T cells. In APPLIED BIOLOGICAL CHEMISTRY. ISSN 2468-0834, JUN 29 2020, vol. 63, no. 1, 32., Registrované v: WOS

ADCA68 GODÁLOVÁ, Z. - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KUCHTA, T. - PIKNOVA, L. - PANGALLO, Domenico. Bacterial consortia at different wine fermentation phases of two typical Central European grape varieties: Blaufränkisch (Frankovka modrá) and Grüner Veltliner (Veltlínske zelené). In International journal of food microbiology, 2016, vol. 217, p. 110–116. (2015: 3.445 - IF, Q1 - JCR, 1.614 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2015.10.015

Citácie:

1. [1.1] CHEN, Y. - ZHANG, W. - YI, H. - WANG, B. - XIAO, J. - ZHOU, X.Y. - XU, J.K. - JIANG, L. - SHI, X.W. Microbial community composition and its role in volatile compound formation during the spontaneous fermentation of ice wine made from Vidal grapes. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, MAY 2020, vol. 92, p. 365-377., Registrované v: WOS
2. [1.1] TANTIKACHORNKIAT, M. - MORGAN, S.C. - LEPITRE, M. - CLIFF, M.A. - DURALL, D.M. Yeast and bacterial inoculation practices influence the microbial communities of barrel-fermented Chardonnay wines. In AUSTRALIAN JOURNAL OF GRAPE AND WINE RESEARCH.

ISSN 1322-7130, JUL 2020, vol. 26, no. 3, p. 279-289., Registrované v: WOS
3. [1.1] YU, A.O. - LEVEAU, J.H.J. - MARCO, M.L. Abundance, diversity and plant-specific adaptations of plant-associated lactic acid bacteria. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, FEB 2020, vol. 12, no. 1, p. 16-29., Registrované v: WOS
4. [1.1] ZHANG, S.W. - WANG, Y. - CHEN, X. - CUI, B.J. - BAI, Z.H. - ZHUANG, G.Q. Variety features differentiate microbiota in the grape leaves. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, NOV 2020, vol. 66, no. 11, p. 653-663., Registrované v: WOS

ADCA69 GODÁNY, Andrej - VIDOVÁ, Barbora - JANEČEK, Štefan. The unique glycoside hydrolase family 77 amylomaltase from Borrelia burgdorferi with only catalytic triad conserved. In FEMS Microbiology Letters, 2008, vol. 284, p. 84-91. (2007: 2.274 - IF, Q3 - JCR, 1.103 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0378-1097.

Citácie:
1. [1.1] JEONG, D.W. - JEONG, H.M. - SHIN, Y.J. - WOO, S.H. - SHIM, J.H. Properties of recombinant 4-alpha-glucanotransferase from Bifidobacterium longum subsp. longum JCM 1217 and its application. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAY 2020, vol. 29, no. 5, p. 667-674., Registrované v: WOS

ADCA70 GODOČÍKOVÁ, Jana - ZÁMOCKÝ, Marcel - BUČKOVÁ, Mária - OBINGER, C. - POLEK, Bystrík. Molecular diversity of katG genes in the soil bacteria Comamonas. In Archives of Microbiology, 2010, vol. 192, no. 3, p. 175-184. (2009: 1.927 - IF, Q3 - JCR, 1.036 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-009-0541-4

Citácie:
1. [1.2] SHARMA, Ruby - LUO, Xuye - KUMAR, Sajal - SONG, Mingzhou. Three Co-expression Pattern Types across Microbial Transcriptional Networks of Plankton in Two Oceanic Waters. In Proceedings of the 11th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics, BCB 2020, 2020-09-21, pp., Registrované v: SCOPUS

ADCA71 GÜNDOGDU, M.E. - KAWAI, Y. - PAVLENDOVÁ, Naďa - OGASAWARA, N. - ERRINGTON, J. - SCHEFFERS, D.J. - HAMOEN, L.W. Large ring polymers align FtsZ polymers for normal septum formation. In EMBO journal : European Molecular Biology Organization, 2011, vol. 30, p. 617–626. (2010: 10.124 - IF, Q1 - JCR, 9.481 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0261-4189. Dostupné na: https://doi.org/10.1038/emboj.2010.345

Citácie:
1. [1.1] BRUCK, H.L. - DELVIGNE, F. - DHULSTER, P. - JACQUES, P. - COUTTE, F. Molecular strategies for adapting Bacillus subtilis 168 biosurfactant production to biofilm cultivation mode. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, DEC 2019, vol. 293., Registrované v: WOS
2. [1.1] CAMARGO, S. - PICOSSI, S. - CORRALES-GUERRERO, L. - VALLADARES, A. - AREVALO, S. - HERRERO, A. ZipN is an essential FtsZ membrane tether and contributes to the septal localization of SepJ in the filamentous cyanobacterium Anabaena. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 26 2019, vol. 9., Registrované v: WOS
3. [1.1] DENG, X. - LLAMAZARES, A.G. - WAGSTAFF, J.M. - HALE, V.L. - CANNONE, G. - MCLAUGHLIN, S.H. - KUREISAITE-CIZIENE, D. - LOWE, J. The structure of bactofilin filaments reveals their mode of membrane binding and lack of polarity. In NATURE MICROBIOLOGY. ISSN 2058-5276, DEC 2019, vol. 4, no. 12, p. 2357-2368., Registrované v: WOS
4. [1.1] PRATER, A.G. - MEHTA, H.H. - KOSGEI, A.J. - MILLER, W.R. - TRAN, T.T. - ARIAS, C.A. - SHAMOO, Y. Environment Shapes the Accessible Daptomycin Resistance Mechanisms in Enterococcus faecium. In ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. ISSN 0066-4804, OCT 2019, vol. 63, no. 10., Registrované v: WOS
5. [1.1] SILBER, N. - DE OPITZ, C.L.M. - MAYER, C. - SASS, P. Cell division protein FtsZ: from structure and mechanism to antibiotic target. In FUTURE MICROBIOLOGY. ISSN 1746-0913, APR 2020, vol. 15, no. 9, p. 801-831., Registrované v: WOS
6. [1.1] SOGUES, A. - MARTINEZ, M. - GADAY, Q. - BEN ASSAYA, M. - GRANA, M. - VOEGELE, A. - VANNIEUWENHZE, M. - ENGLAND, P. - HAOUZ, A. - CHENAL, A. - TREPOUT, S. - DURAN, R. - WEHENKEL, A.M. - ALZARI, P.M. Essential dynamic interdependence of FtsZ and SepF for Z-ring and septum formation in Corynebacterium glutamicum. In NATURE COMMUNICATIONS. ISSN 2041-1723, APR 2 2020, vol. 11, no. 1., Registrované v: WOS

ADCA72 HAJNICKÁ, Valéria - VANČOVÁ, Iveta - KOCÁKOVÁ, Pavlína - SLOVÁK, Mirko - GAŠPERÍK, Juraj - SLÁVIKOVÁ, Monika - HAILS, R.S. - LABUDA, Milan - NUTTALL, Patricia A. Manipulation of host cytokine network by ticks: a potential gateway for pathogen transmission. In Parasitology, 2005, vol. 130, no. 3, p. 333-342. (2004: 1.685 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0031-1820. Dostupné na: https://doi.org/10.1017/S0031182004006535

Citácie:
1. [1.1] BHUSAL, R.P. - EATON, J.R.O. - CHOWDHURY, S.T. - POWER, C.A. - PROUDFOOT, A.E.I. - STONE, M.J. - BHATTACHARYA, S. Evasins: Tick Salivary Proteins that Inhibit Mammalian Chemokines. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, FEB 2020, vol. 45, no. 2, p. 108-122., Registrované v: WOS
2. [1.1] ZHANG, X.L. - ZHANG, B.W. - MASOUDI, A. - WANG, X.S. - XUE, X.M. - LI, M.X. - XIAO, Q. - WANG, M.J. - LIU, J.Z. - WANG, H. Comprehensive analysis of protein expression levels and phosphorylation levels in host skin in response to tick (Haemaphysalis longicornis) bite. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, AUG 30 2020, vol. 226., Registrované v: WOS
3. [1.1] ZHOU, W.S. - TAHIR, F. - WANG, J.C.Y. - WOODSON, M. - SHERMAN, M.B. - KARIM, S. - NEELAKANTA, G. - SULTANA, H. Discovery of Exosomes From Tick Saliva and Salivary Glands Reveals Therapeutic Roles for CXCL12 and IL-8 in Wound Healing at the Tick-Human Skin Interface. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, JUL 16 2020, vol. 8., Registrované v: WOS

ADCA73 HAJNICKÁ, Valéria - KOCÁKOVÁ, Pavlína - SLÁVIKOVÁ, Monika - SLOVÁK, Mirko - GAŠPERÍK, Juraj - FUCHSBERGER, Norbert - NUTTALL, Patricia A. Anti-interleukin 8 activity of tick salivary gland extracts. In Parasite Immunology, 2001, vol. 23 no. 9, p. 483-489. (2000: 2.000 - IF, karentované - CCC). (2001 - Current Contents). Dostupné na: https://doi.org/10.1046/j.1365-3024.2001.00403.x

Citácie:
1. [1.1] BHATTACHARYA, S. - KAWAMURA, A. Using evasins to target the chemokine network in inflammation. In INFLAMMATORY DISORDERS, PT A. ISSN 1876-1623, 2020, vol. 119, p. 1-38., Registrované v: WOS
2. [1.1] BHUSAL, R.P. - EATON, J.R.O. - CHOWDHURY, S.T. - POWER, C.A. - PROUDFOOT, A.E.I. - STONE, M.J. - BHATTACHARYA, S. Evasins: Tick Salivary Proteins that Inhibit Mammalian Chemokines. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, FEB 2020, vol. 45, no. 2, p. 108-122., Registrované v: WOS
3. [1.1] ZHOU, W.S. - TAHIR, F. - WANG, J.C.Y. - WOODSON, M. - SHERMAN, M.B. - KARIM, S. - NEELAKANTA, G. - SULTANA, H. Discovery of Exosomes From Tick Saliva and Salivary Glands Reveals Therapeutic Roles for CXCL12 and IL-8 in Wound Healing at the Tick-Human Skin Interface. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, JUL 16 2020, vol. 8., Registrované v: WOS
4. [1.2] PIESZ, Jessica L. - BARKER, Sarah E. - BRICKNELL, Ian R. Anti-chemotactic activity in the secretory/excretory products of Lepeophtheirus salmonis. In Fish and Shellfish Immunology. ISSN 10504648, 2020-03-01, 98, pp. 296-300., Registrované v: SCOPUS

ADCA74 HALGAŠOVÁ, Nora - KUTEJOVÁ, Eva - TIMKO, Jozef. Purification and some characteristics of the acetylxylan esterase from Schizophyllum commune. In Biochemical Journal, 1994, vol. 298, p. 751-755. (1993: 3.659 - IF, karentované - CCC). (1994 - Current Contents, WOS, SCOPUS). ISSN 0264-6021.

Citácie:
1. [1.1] ALI, S. - MAHMOOD, S. Mutagenesis of a Thermophilic Alkalibacillus flavidus for Enhanced Production of an Extracellular Acetyl Xylan Esterase in Semi-solid Culture of Linseed Meal. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, JUL 2020, vol. 11, no. 7, p. 3327-3335., Registrované v: WOS

ADCA75 HALGAŠOVÁ, Nora - MAJTÁN, Tomáš - UGORČÁKOVÁ, Jana - TIMKO, Jozef - BUKOVSKÁ, Gabriela. Resistance of corynebacterial strains to infection and lysis by corynephage BFK 20. In Journal of Applied Microbiology, 2005, vol. 98, p. 184-192. ISSN 1364-5072.

Citácie:
1. [1.1] CHELEUITTE-NIEVES, C. - HESELPOTH, R.D. - WESTBLADE, L.F. - LIPMAN, N.S. - FISCHETTI, V.A. Searching for a Bacteriophage Lysin to Treat Corynebacterium bovis in Immunocompromised Mice. In COMPARATIVE MEDICINE. ISSN 1532-0820, AUG 2020, vol. 70, no. 4, p. 328-335., Registrované v: WOS

ADCA76 HALGAŠOVÁ, Nora - BUKOVSKÁ, Gabriela - UGORČÁKOVÁ, Jana - TIMKO, Jozef - KORMANEC, Ján. The Brevibacterium flavum sigma factor SigB has a role in the environmental stress response. In FEMS Microbiology Letters, 2002, vol. 216, p. 77-84. ISSN 0378-1097.

Citácie:
1. [1.1] LOU, L.N. - SU, X.J. - LIU, X.H. - LIU, Z. Transcriptome analysis of Luffa cylindrica (L.) Roem response to infection with Cucumber mosaic virus (CMV). In GENE. ISSN 0378-1119, MAY 5 2020, vol. 737, 144451., Registrované v: WOS

ADCA77 HALGAŠOVÁ, Nora - BUKOVSKÁ, Gabriela - TIMKO, Jozef - KORMANEC, Ján. Cloning and transcriptional characterization of two sigma factor genes sigA and sigB from Brevibacterium flavum. In Current Microbiology, 2001, vol. 43, p. 249-254. ISSN 0343-8651.

Citácie:

1. [1.1] LOU, L.N. - SU, X.J. - LIU, X.H. - LIU, Z. Transcriptome analysis of Luffa cylindrica (L.) Roem response to infection with Cucumber mosaic virus (CMV). In GENE. ISSN 0378-1119, MAY 5 2020, vol. 737., Registrované v: WOS

ADCA78 HARRAGHY, N. - KORMANEC, Ján - WOLZ, Ch. - HOMEROVÁ, Dagmar - GOERKE, Ch. - OHLSEN, K. - QAZI, S. - HILL, C.P. - HERRMANN, M. Sae is essential for expression of the staphylococcal adhesins Eap and Emp. In Microbiology, 2005, vol. 151, p. 1789-1800. ISSN 1350-0872.

Citácie:

1. [1.1] GANGWAR, B. - KUMAR, S. - DAROKAR, M.P. Glabridin Averts Biofilms Formation in Methicillin-ResistantStaphylococcus aureusby Modulation of the Surfaceome. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 17 2020, vol. 11., Registrované v: WOS

ADCA79 HARTMANN, T. - ZHANG, B. - BARONIAN, G. - SCHULTHESS, B. - HOMEROVÁ, Dagmar - GRUBMULLER, S. - KUTZNER, E. - GAUPP, R. - BERTRAM, R. - POWERS, R. - EISENREICH, W. - KORMANEC, Ján - HERRMANN, M. - MOLLE, V. - SOMERVILLE, G.A. - BISCHOFF, M. Catabolite control protein E (CcpE) is a LysR-type transcriptional regulator of TCA cycle activity in Staphylococcus aureus. In Journal of Biological Chemistry, 2013, vol. 288, p. 36116-36128. (2012: 4.651 - IF, Q1 - JCR, 3.396 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M113.516302

Citácie:

1. [1.1] ABDELHAMED, H. - RAMACHANDRAN, R. - NARAYANAN, L. - OZDEMIR, O. - COOPER, A. - OLIVIER, A.K. - KARSI, A. - LAWRENCE, M.L. Contributions of a LysR Transcriptional Regulator to Listeria monocytogenes Virulence and Identification of Its Regulons. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, MAY 2020, vol. 202, no. 10., Registrované v: WOS

2. [1.1] GROMA, M. - HORST, S.A. - DAS, S. - HUETTEL, B. - KLEPSCH, M. - RUDEL, T. - MEDINA, E. - FRAUNHOLZ, M. Identification of a Novel LysR-Type Transcriptional Regulator in Staphylococcus aureus That Is Crucial for Secondary Tissue Colonization during Metastatic Bloodstream Infection. In MBIO. ISSN 2150-7511, JUL-AUG 2020, vol. 11, no. 4., Registrované v: WOS

3. [1.1] ZHENG, C. - YU, Z.Q. - DU, C.Y. - GONG, Y.J. - YIN, W. - LI, X.F. - LI, Z. - ROMLING, U. - CHOU, S.H. - HE, J. 2-Methylcitrate cycle: a well-regulated controller of Bacillus sporulation. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, MAR 2020, vol. 22, no. 3, p. 1125-1140., Registrované v: WOS

ADCA80 HEBERT, E.J. - GRIMSLEY, G.R. - HARTLEY, R.W. - HORN, G. - SCHELL, D. - GARCIA, S. - BOTH, V. - ŠEVČÍK, Jozef - PACE, C.N. Purification of ribonucleases Sa, Sa2 and Sa3 after expression in Escherichia coli. In Protein Expression and Purification, 1997, vol. 11, p. 162-168. ISSN 1046-5928.

Citácie:

1. [1.1] GEORGE, J. - MANJUSHA, W.A. Characterization of Purified Collagen from Marine Squid Uroteuthis Duvauceli. In INTERNATIONAL JOURNAL OF LIFE SCIENCE AND PHARMA RESEARCH. ISSN 2250-0480, OCT 2020, vol. 10, no. 4, p. L121-L133., Registrované v: WOS

ADCA81 HLEBA, Lukáš - CHAROUSOVÁ, I. - CISAROVÁ, M. - KOVACIK, A. - KORMANEC, Ján - BOŽÍK, M. - JAVOREKOVÁ, S. Rapid identification of Streptomyces tetracycline producers by MALDI-TOF mass spectrometry. In Journal of Environmental Science and Health, Part A, 2018, vol. 53, p. 1083-1093. (2017: 1.561 - IF, Q3 - JCR, 0.508 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1093-4529. Dostupné na: https://doi.org/10.1080/10934529.2018.1474581

Citácie:

1. [1.1] DE SOUSA, T. - VIALA, D. - THERON, L. - CHAMBON, C. - HEBRAUD, M. - POETA, P. - IGREJAS, G. Putative Protein Biomarkers of Escherichia coli Antibiotic Multiresistance Identified by MALDI Mass Spectrometry. In BIOLOGY-BASEL. MAR 2020, vol. 9, no. 3., Registrované v: WOS

2. [1.1] SUN, X.S. - WU, P.C. - ZHAO, C.X. - ZHENG, F.J. - HU, C.X. - LU, X. - XU, G.W. Protein profiling analysis based on matrix-assisted laser desorption/ionization-Fourier transform ion cyclotron resonance mass spectrometry and its application in typing Streptomyces isolates. In TALANTA. ISSN 0039-9140, FEB 1 2020, vol. 208., Registrované v: WOS

ADCA82 HOFBAUEROVÁ, Monika, Benkovičová - KISOVÁ, Zuzana - BUČKOVÁ, Mária - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - PANGALLO, Domenico**. The antifungal properties of super-hydrophobic nanoparticles and essential oils on different material surfaces. In Coatings, 2019, vol. 9, no. 3, p. 176. (2018: 2.330 - IF, Q2 - JCR, karentované - CCC). (2019 - Current Contents). ISSN 2079-6412. Dostupné na: https://doi.org/10.3390/coatings9030176

Citácie:

1. [1.1] KAPICA, Ryszard - MARKIEWICZ, Justyna - TYCZKOWSKA-SIERON, Ewa - FRONCZAK, Maciej - BALCERZAK, Jacek - SIELSKI, Jan - TYCZKOWSKI, Jacek. Artificial

Superhydrophobic and Antifungal Surface on Goose Down by Cold Plasma Treatment. In COATINGS, 2020, vol. 10, no. 9, 904., Registrované v: WOS

ADCA83 HOI, Herbert - DAROLOVÁ, Alžbeta** - KRIŠTOFÍK, Ján - POLÁČEK, Miroslav - MAJTÁN, Juraj - ZEMAN, M. - OKULIAROVÁ, Monika - TURČOKOVÁ, Lucia - KNAUER, Felix. Covariation between eggshell colouration and eggshell bacteria abundance and egg characteristics in blackbirds. In Ethology Ecology & Evolution, 2019, vol. 31, p. 249-265. (2018: 1.038 - IF, Q3 - JCR, 0.424 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0394-9370. Dostupné na: https://doi.org/10.1080/03949370.2019.1575910

Citácie:

1. [1.1] MORALES, J. Eggshell Biliverdin as an Antioxidant Maternal Effect Biliverdin as an Antioxidant Resource in Oviparous Animals. In BIOESSAYS. ISSN 0265-9247, AUG 2020, vol. 42, no. 8., Registrované v: WOS

ADCA84 HOLIČ, Roman - ŠIMOVÁ, Zuzana - ASHLIN, T. - PEVALA, Vladimír - POLONCOVÁ, Katarína - TAHOTNÁ, Dana - KUTEJOVÁ, Eva - COCKCROFT, Samshad - GRIAČ, Peter. Phosphatidylinositol binding of Saccharomyces cerevisiae Pdr16p represents an essential feature of this lipid transfer protein to provide protection against azole antifungals. In Biochimica et Biophysica Acta : molecular cell biology of lipids, 2014, vol. 1841, p. 1483–1490. (2013: 4.495 - IF, Q1 - JCR, 2.181 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1388-1981. Dostupné na: https://doi.org/10.1016/j.bbalip.2014.07.014

Citácie:

1. [1.1] BUECHEL, E.R. - PINKETT, H.W. Transcription factors and ABC transporters: from pleiotropic drug resistance to cellular signaling in yeast. In FEBS LETTERS. ISSN 0014-5793, DEC 2020, vol. 594, no. 23, SI, p. 3943-3964., Registrované v: WOS

2. [1.1] LIPP, N.F. - IKHLEF, S. - MILANINI, J. - DRIN, G. Lipid Exchangers: Cellular Functions and Mechanistic Links With Phosphoinositide Metabolism. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, JUL 21 2020, vol. 8, 663, Registrované v: WOS

ADCA85 HOMEROVÁ, Dagmar - HALGAŠOVÁ, Lenka - KORMANEC, Ján. Cascade of extracytoplasmic function sigma factors in Mycobacterium tuberculosis: identification of a SigJ-dependent promoter upstream of sigI. In FEMS Microbiology Letters, 2008, vol. 280, p. 120-126. (2007: 2.274 - IF, Q3 - JCR, 1.103 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0378-1097.

Citácie:

1. [1.1] DUBEY, A.P. - PANDEY, P. - SINGH, V.S. - MISHRA, M.N. - SINGH, S. - MISHRA, R. - TRIPATHI, A.K. An ECF41 Family sigma Factor Controls Motility and Biogenesis of Lateral Flagella in Azospirillum brasilense Sp245. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, AUG 2020, vol. 202, no. 16., Registrované v: WOS

2. [1.1] GUPTA, A.M. - MANDAL, S. The C-terminal domain of M. tuberculosis ECF sigma factor I (SigI) interferes in SigI-RNAP interaction. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, MAR 16 2020, vol. 26, no. 4., Registrované v: WOS

ADCA86 HOMEROVÁ, Dagmar - KORMANEC, Ján**. Cloning of the putative glycogen branching enzyme gene, glgB, from Streptomyces aureofaciens. In Biochimica et Biophysica Acta - General Subjects, 1994, vol. 1200, p. 334-336. ISSN 0304-4165.

Citácie:

1. [1.1] BAN, X.F. - DHOBLE, A.S. - LI, C.M. - GU, Z.B. - HONG, Y. - CHENG, L. - HOLLER, T.P. - KAUSTUBH, B. - LI, Z.F. Bacterial 1,4-alpha-glucan branching enzymes: characteristics, preparation and commercial applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 2 2020, vol. 40, no. 3, p. 380-396., Registrované v: WOS

ADCA87 HORNIAČKOVÁ, Miroslava - BUČEKOVÁ, Marcela - VALACHOVÁ, Ivana - MAJTÁN, Juraj. Effect of gamma radiation on the antibacterial and antibiofilm activity of honeydew honey. In European Food Research and Technology, 2017, vol. 243, no. 1, p. 81–88. (2016: 1.664 - IF, Q2 - JCR, 0.763 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-016-2725-x

Citácie:

1. [1.1] BOUACHA, M. - BENBOUZID, H. Antibacterial Properties of Honey from Different Algerian Regions against Staphylococcus aureus Strains from Wounds. In JOURNAL OF PURE AND APPLIED MICROBIOLOGY. ISSN 0973-7510, MAR 2020, vol. 14, no. 1, p. 447-453., Registrované v: WOS

ADCA88 HORVÁTHOVÁ, Viera - JANEČEK, Štefan - STURDIK, E. Amylolytic enzymes: molecular aspects of their properties. In General physiology and biophysics, 2001, vol. 20, p. 7-32. (2000: 0.417 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] BALAKRISHNAN, D. - KUMAR, S.S. - SUGATHAN, S. Amylases for Food Applications-Updated Information. In GREEN BIO-PROCESSES: ENZYMES IN INDUSTRIAL FOOD

PROCESSING. ISSN 2522-8366, 2019, p. 199-227., Registrované v: WOS
2. [1.1] SEO, D.H. - YOO, S.H. - CHOI, S.J. - KIM, Y.R. - PARK, C.S. Versatile biotechnological applications of amylosucrase, a novel glucosyltransferase. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, JAN 2020, vol. 29, no. 1, p. 1-16., Registrované v: WOS
3. [1.2] NINGSIH, Sri - JUNIARTI, Fifit - ROSIDAH, Idah - FAJRIAWAN, Adam Arditya - AGUSTINI, Kurnia - ROSMALAWATI, Syofi - WIBOWO, Agung Eru - SASIKIRANA, Erliana - SUMARYONO, Wahono. Study of the Effect of Lampeni (Ardisia humilis Vahl.) Planting Condition toward the Alpha-glucosidase Inhibition Activity in vitro. In Pharmacognosy Journal, 2020-01-01, 12, 2, pp. 377-385., Registrované v: SCOPUS

ADCA89 HOSTINOVÁ, Eva - SOLOVIČOVÁ, A. - GAŠPERÍK, Juraj. Cloning and expression of a gene for an alpha-glucosidase from Saccharomycopsis fibuligera homologous to family GH31 of yeast glucoamylases. In Applied Microbiology and Biotechnology, 2005, vol. 69, p. 51-56. (2005 - Current Contents). ISSN 0175-7598.

Citácie:
1. [1.1] ZHOU, B. - HUANG, N. - ZENG, W. - ZHANG, H. - CHEN, G.G. - LIANG, Z.Q. Development of a strategy for the screening of alpha-glucosidase-producing microorganisms. In JOURNAL OF MICROBIOLOGY. ISSN 1225-8873, FEB 2020, vol. 58, no. 2, p. 163-172., Registrované v: WOS

ADCA90 HOWE, D. - MELNIČÁKOVÁ, Jana - BARÁK, Imrich - HEINZEN, R.A. Maturation of the Coxiella burnetii parasitophorous vacuole requires bacterial protein synthesis but not replication. In Cellular microbiology. - Veľká Británia : Blackwell Synergy, 2003, vol. 5, no. 7, p. 469 - 480. (2002: 4.600 - IF). ISSN 1462-5814.

Citácie:
1. [1.1] MATTHIESEN, S. - ZAECK, L. - FRANZKE, K. - JAHNKE, R. - FRICKE, C. - MAUERMEIR, M. - FINKE, S. - LUHRMANN, A. - KNITTLER, M.R. Coxiella bumetii-Infected NK Cells Release Infectious Bacteria by Degranulation. In INFECTION AND IMMUNITY. ISSN 0019-9567, NOV 2020, vol. 88, no. 11., Registrované v: WOS
2. [1.1] PADMANABHAN, B. - FIELDEN, L.F. - HACHANI, A. - NEWTON, P. - THOMAS, D.R. - CHO, H.J. - KHOO, C.A. - STOJANOVSKI, D. - ROY, C.R. - SCOTT, N.E. - NEWTON, H.J. Biogenesis of the Spacious Coxiella-Containing Vacuole Depends on Host Transcription Factors TFEB and TFE3. In INFECTION AND IMMUNITY. ISSN 0019-9567, MAR 2020, vol. 88, no. 3., Registrované v: WOS
3. [1.1] SAHU, R. - RAWOOL, D.B. - VINOD, V.K. - MALIK, S.V.S. - BARBUDDHE, S.B. Current approaches for the detection of Coxiella burnetii infection in humans and animals. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, DEC 2020, vol. 179., Registrované v: WOS
4. [1.1] THOMAS, D.R. - NEWTON, P. - LAU, N. - NEWTON, H.J. Interfering with Autophagy: The Opposing Strategies Deployed by Legionella pneumophila and Coxiella burnetii Effector Proteins. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, NOV 5 2020, vol. 10., Registrované v: WOS
5. [1.2] OMOTADE, Titilayo O. - ROY, Craig R. Manipulation of host cell organelles by intracellular pathogens. In Bacteria and Intracellularity, 2020-01-01, pp. 179-196., Registrované v: SCOPUS

ADCA91 HOWE, D. - MELNIČÁKOVÁ, Jana - BARÁK, Imrich - HEINZEN, R.A. Fusogenicity of the Coxiella burnetii Parasitophorous Vacuole. In Annals of the New York Academy of Sciences, 2003, vol. 990, p. 556-562. (2002: 1.682 - IF). ISSN 0077-8923.

Citácie:
1. [1.1] KUBA, M. - NEHA, N. - NEWTON, P. - LEE, Y.W. - BENNETT-WOOD, V. - HACHANI, A. - DE SOUZA, D.P. - NIJAGAL, B. - DAYALAN, S. - TULL, D. - MCCONVILLE, M.J. - SANSOM, F.M. - NEWTON, H.J. EirA Is a Novel Protein Essential for Intracellular Replication of Coxiella burnetii. In INFECTION AND IMMUNITY. ISSN 0019-9567, MAY 2020, vol. 88, no. 6., Registrované v: WOS
2. [1.1] SAHU, R. - RAWOOL, D.B. - VINOD, V.K. - MALIK, S.V.S. - BARBUDDHE, S.B. Current approaches for the detection of Coxiella burnetii infection in humans and animals. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, DEC 2020, vol. 179., Registrované v: WOS

ADCA92 HUMPHREYS, S. - ROWLEY, G. - STEVENSON, A. - ANJUM, M.F. - WOODWARD, M.J. - GILDBERT, S. - KORMANEC, Ján - ROBERTS, M. Role of the two-component regulator CpxAR in the virulence of Salmonella enterica serotype Typhimurium. In Infection and Immunity, 2004, vol. 72, p. 4654. ISSN 0019-9567.

Citácie:
1. [1.1] JASWAL, K. - SHRIVASTAVA, M. - ROY, D. - AGRAWAL, S. - CHABA, R. Metabolism of long-chain fatty acids affects disulfide bond formation inEscherichia coliand activates envelope

stress response pathways as a combat strategy. In PLOS GENETICS. ISSN 1553-7404, OCT 2020, vol. 16, no. 10., Registrované v: WOS
2. [1.1] JING, W.X. - LIU, J. - WU, S.S. - CHEN, Q.W. - LI, X.R. - LIU, Y.S. Development of a Method for Simultaneous Generation of Multiple Genetic Modification inSalmonella entericaSerovar Typhimurium. In FRONTIERS IN GENETICS. SEP 24 2020, vol. 11., Registrované v: WOS
3. [1.1] MURRET-LABARTHE, C. - KERHOAS, M. - DUFRESNE, K. - DAIGLE, F. New Roles for Two-Component System Response Regulators of Salmonella enterica Serovar Typhi during Host Cell Interactions. In MICROORGANISMS. MAY 2020, vol. 8, no. 5., Registrované v: WOS

ADCA93 CHEBEŇOVÁ-TURCOVSKÁ, V. - ŽENIŠOVÁ, K. - KUCHTA, T. - PANGALLO, Domenico - BREŽNÁ, Barbara. Culture-independent detection of microorganisms in traditional Slovakian bryndza cheese. In International journal of food microbiology, 2011, vol. 150, p. 73-78. (2010: 3.143 - IF, Q1 - JCR, 1.610 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2011.07.020

Citácie:
1. [1.1] ALTUN, R. - ESIM, N. - AYKUTOGLU, G. - BALTACI, M.O. - ADIGUZEL, A. - TASKIN, M. Production of linoleic acid-rich lipids in molasses-based medium by oleaginous fungus Galactomyces geotrichum TS61. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, JUL 2020, vol. 44, no. 7, e14518, Registrované v: WOS
2. [1.1] TERZIC-VIDOJEVIC, A. - VELJOVIC, K. - TOLINACKI, M. - ZIVKOVIC, M. - LUKIC, J. - LOZO, J. - FIRA, D. - JOVCIC, B. - STRAHINIC, I. - BEGOVIC, J. - POPOVIC, N. - MILJKOVIC, M. - KOJIC, M. - TOPISIROVIC, L. - GOLIC, N. Diversity of non-starter lactic acid bacteria in autochthonous dairy products from Western Balkan Countries - Technological and probiotic properties. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, OCT 2020, vol. 136, 109494, Registrované v: WOS
3. [1.1] VATASCINOVA, T. - PIPOVA, M. - FRAQUEZA, M.J.R. - MAL';A, P. - DUDRIKOVA, E. - DRAZOVSKA, M. - LAUKOVA, A. Short communication: Antimicrobial potential of Lactobacillus plantarum strains isolated from Slovak raw sheep milk cheeses. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, AUG 2020, vol. 103, no. 8, p. 6900-6903., Registrované v: WOS

ADCA94 CHOTAR, M. - VIDOVÁ, Barbora - GODÁNY, Andrej. Development of specific and rapid detection of bacterial pathogens in dairy products by PCR. In Folia Microbiologica, 2006, vol. 51, p. 639-646. (2005: 0.918 - IF, Q3 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0015-5632.

Citácie:
1. [1.1] LICHVARIKOVA, A. - SOLTYS, K. - SZEMES, T. - SLOBODNIKOVA, L. - BUKOVSKA, G. - TURNA, J. - DRAHOVSKA, H. Characterization of Clinical and Carrier Streptococcus agalactiae and Prophage Contribution to the Strain Variability. In VIRUSES-BASEL. NOV 2020, vol. 12, no. 11, 1323., Registrované v: WOS

ADCA95 CHRISTIANSEN, C. - ABOU HACHEM, M. - JANEČEK, Štefan - VIKSO-NIELSEN, A. - BLENNOW, A. - SVENSSON, B. The carbohydrate-binding module family 20-diversity, structure, and function. In FEBS Journal, 2009, vol. 276, p. 5006-5029. (2008: 3.139 - IF, Q2 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1742-464X.

Citácie:
1. [1.1] LIMBU, S.M. - ZHANG, H. - LUO, Y. - CHEN, L.Q. - ZHANG, M.L. - DU, Z.Y. High carbohydrate diet partially protects Nile tilapia (Oreochromis niloticus) from oxytetracycline-induced side effects. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, JAN 2020, vol. 256, 113508, Registrované v: WOS
2. [1.1] RAHEJA, Y. - KAUR, B. - FALCO, M. - TSANG, A. - CHADHA, B.S. Secretome analysis of Talaromyces emersonii reveals distinct CAZymes profile and enhanced cellulase production through response surface methodology. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, SEP 15 2020, vol. 152, 112554, Registrované v: WOS
3. [1.1] WANG, W. - WEI, X.J. - JIAO, G.A. - CHEN, W.Q. - WU, Y.W. - SHENG, Z.H. - HU, S.K. - XIE, L.H. - WANG, J.Y. - TANG, S.Q. - HU, P.S. GBSS-BINDING PROTEIN, encoding a CBM48 domain-containing protein, affects rice quality and yield. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, JUL 2020, vol. 62, no. 7, p. 948-966., Registrované v: WOS
4. [1.1] ZENG, J. - GUO, J.J. - TU, Y.K. - YUAN, L. Functional study of C-terminal domain of the thermoacidophilic raw starch-hydrolyzing alpha-amylase Gt-amy. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAR 2020, vol. 29, no. 3, p. 409-418., Registrované v: WOS
5. [1.2] HEDÍN, Nicolas - BARCHIESI, Julieta - GOMEZ-CASATI, Diego F. - BUSI, María V. Functional and structural characterization of a novel isoamylase from ostreococcus tauri and role of the n-terminal domain. In Open Biotechnology Journal, 2020-01-01, 14, 1, pp. 1-11.,

Registrované v: SCOPUS

ADCA96 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. α-Amylase: an enzyme specificity found in various families of glycoside hydrolases. In Cellular and Molecular Life Sciences, 2014, vol. 71, p. 1149–1170. (2013: 5.856 - IF, Q1 - JCR, 3.301 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-013-1388-z

Citácie:

1. [1.1] ADABALA, P.J.P. - ABADI, S.S.K. - AKINTOLA, O. - BHOSALE, S. - BENNET, A.J. Conformationally Controlled Reactivity of Carbasugars Uncovers the Choreography of Glycoside Hydrolase Catalysis. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, MAR 6 2020, vol. 85, no. 5, p. 3336-3348., Registrované v: WOS

2. [1.1] AGATONOVIC-KUSTRIN, S. - KUSTRIN, E. - GEGECHKORI, V. - MORTON, D.W. Bioassay-guided identification of alpha-amylase inhibitors in herbal extracts. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, JUN 7 2020, vol. 1620., Registrované v: WOS

3. [1.1] AHMAD, R.A. - JAAFAR, N.R. - MANAS, N.H.A. - AZELEE, N.I.W. - ILLIAS, R.M. - NAWAWI, N.N. BIOCONVERSION OF STARCH TO MALTOOLIGOSACCHARIDES (MOS) BY THE REACTION OF MALTOGENIC AMYLASE. In JURNAL TEKNOLOGI. ISSN 0127-9696, JAN 2020, vol. 82, no. 1, p. 95-101., Registrované v: WOS

4. [1.1] BAN, X.F. - DHOBLE, A.S. - LI, C.M. - GU, Z.B. - HONG, Y. - CHENG, L. - HOLLER, T.P. - KAUSTUBH, B. - LI, Z.F. Bacterial 1,4-alpha-glucan branching enzymes: characteristics, preparation and commercial applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 2 2020, vol. 40, no. 3, p. 380-396., Registrované v: WOS

5. [1.1] BANDARUPALLI, V.V.K. - ST-PIERRE, B. Identification of a Candidate Starch Utilizing Strain of Prevotella albensis from Bovine Rumen. In MICROORGANISMS. DEC 2020, vol. 8, no. 12., Registrované v: WOS

6. [1.1] BOZIC, N. - ROZEBOOM, H.J. - LONCAR, N. - SLAVIC, M.S. - JANSSEN, D.B. - VUJCIC, Z. Characterization of the starch surface binding site on Bacillus paralicheniformis alpha-amylase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, A, p. 1529-1539., Registrované v: WOS

7. [1.1] CERQUEIRA, F.M. - PHOTENHAUER, A.L. - POLLET, R.M. - BROWN, H.A. - KOROPATKIN, N.M. Starch Digestion by Gut Bacteria: Crowdsourcing for Carbs. In TRENDS IN MICROBIOLOGY. ISSN 0966-842X, FEB 2020, vol. 28, no. 2, p. 95-108., Registrované v: WOS

8. [1.1] CHEN, Y. - LIU, W.K. - MA, J. - WANG, Y.R. - HUANG, H. Comprehensive physiological and transcriptomic analysis revealing the responses of hybrid grouper (Epinephelus fuscoguttatus female xE. lanceolatus male) to the replacement of fish meal with soy protein concentrate. In FISH PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0920-1742, DEC 2020, vol. 46, no. 6, p. 2037-2053., Registrované v: WOS

9. [1.1] DESIDERATO, A. - BARBEITOS, M. - GILBERT, C. - DA LAGE, J.L. Horizontal Transfer and Gene Loss Shaped the Evolution of Alpha-Amylases in Bilaterians. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, FEB 2020, vol. 10, no. 2, p. 709-719., Registrované v: WOS

10. [1.1] FROTA, E.G. - SARTOR, K.B. - BIDUSKI, B. - MARGARITES, A.C.F. - COLLA, L.M. - PICCIN, J.S. Co-immobilization of amylases in porous crosslinked gelatin matrices by different reticulations approaches. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, A, p. 1002-1009., Registrované v: WOS

11. [1.1] HUANG, H. - LIN, Y. - WANG, G.Z. - LIN, J. Gene cloning, expression and biochemical characterization of a new multi-domain, halotolerant and SDS-resistant alkaline pullulanase from Alkalibacterium sp. SL3. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, SEP 2020, vol. 96, p. 1-10., Registrované v: WOS

12. [1.1] JUNG, D.H. - SEO, D.H. - KIM, Y.J. - CHUNG, W.H. - NAM, Y.D. - PARK, C.S. The presence of resistant starch-degrading amylases in Bifidobacterium adolescentis of the human gut. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, OCT 15 2020, vol. 161, p. 389-397., Registrované v: WOS

13. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

14. [1.1] LI, Q.B. - YAN, Y.R. - LIU, X.Q. - ZHANG, Z.D. - TIAN, J. - WU, N.F. Enhancing thermostability of a psychrophilic alpha-amylase by the structural energy optimization in the trajectories of molecular dynamics simulations. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JAN 1 2020, vol. 142, p. 624-633., Registrované v: WOS

15. [1.1] LIM, S.J. - NOOR, N.D.M. - SALLEH, A. - OSLAN, S.N. Structure Prediction of a

Thermostable SR74 alpha-Amylase from Geobacillus stearothermophilus Expressed in CTG-Clade Yeast Meyerozyma guilliermondii Strain SO. In CATALYSTS. SEP 2020, vol. 10, no. 9., Registrované v: WOS
16. [1.1] MEHRVAND, J. - ROODBARI, N.H. - HASSANI, L. - JAFARIAN, V. - KHALIFEH, K. An evolution-based designing and characterization of mutants of cyclomaltodextrinase: Molecular modeling and spectroscopic studies. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, APR 5 2020, vol. 230., Registrované v: WOS
17. [1.1] OTTONI, J.R. - SILVA, T.R.E. - DE OLIVEIRA, V.M. - PASSARINI, M.R.Z. Characterization of amylase produced by cold-adapted bacteria from Antarctic samples. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. JAN 2020, vol. 23., Registrované v: WOS
18. [1.1] PINTO, E.S.M. - DORN, M. - FELTES, B.C. The tale of a versatile enzyme: Alpha-amylase evolution, structure, and potential biotechnological applications for the bioremediation of n-alkanes. In CHEMOSPHERE. ISSN 0045-6535, JUL 2020, vol. 250., Registrované v: WOS
19. [1.1] RANE, A.S. - JOSHI, R.S. - GIRI, A.P. Molecular determinant for specificity: Differential interaction of alpha-amylases with their proteinaceous inhibitors. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, DEC 2020, vol. 1864, no. 12., Registrované v: WOS
20. [1.1] SHOFIYAH, S.S. - YULIANI, D. - WIDYA, N. - SARIAN, F.D. - PUSPASARI, F. - RADJASA, O.K. - IHSANAWATI - NATALIA, D. Isolation, expression, and characterization of raw starch degrading alpha-amylase from a marine lake Bacillus megaterium NL3. In HELIYON. ISSN 2405-8440, DEC 2020, vol. 6, no. 12., Registrované v: WOS
21. [1.1] SIDAR, A. - ALBUQUERQUE, E.D. - VOSHOL, G.P. - RAM, A.F.J. - VIJGENBOOM, E. - PUNT, P.J. Carbohydrate Binding Modules: Diversity of Domain Architecture in Amylases and Cellulases From Filamentous Microorganisms. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, JUL 31 2020, vol. 8., Registrované v: WOS
22. [1.1] SUZUKI, R. - SUZUKI, E. Structure and Function of Branching Enzymes in Eukaryotes. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, JAN 2020, vol. 32, no. 185, p. E21-E30., Registrované v: WOS
23. [1.1] VIDYA, C.H. - KUMAR, B.S.G. - CHINMAYEE, C.V. - SINGH, S.A. Purification, characterization and specificity of a new GH family 35 galactosidase from Aspergillus awamori. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, AUG 1 2020, vol. 156, p. 885-895., Registrované v: WOS
24. [1.1] ZENG, J. - GUO, J.J. - TU, Y.K. - YUAN, L. Functional study of C-terminal domain of the thermoacidophilic raw starch-hydrolyzing alpha-amylase Gt-amy. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAR 2020, vol. 29, no. 3, p. 409-418., Registrované v: WOS
25. [1.1] ZHANG, Z.Q. - JIN, T.C. - XIE, X.F. - BAN, X.F. - LI, C.M. - HONG, Y. - CHENG, L. - GU, Z.B. - LI, Z.F. Structure of maltotetraose-forming amylase from Pseudomonas saccharophila STB07 provides insights into its product specificity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 1 2020, vol. 154, p. 1303-1313., Registrované v: WOS

ADCA97 JANEČEK, Štefan. A motif of a microbial starch-binding domain found in human genethonin. In Bioinformatics, 2002, vol. 18, p. 1534-1537. ISSN 1367-4803.

Citácie:
1. [1.1] METZENDORF, C. - WINEBERGER, K. - RAUSCH, J. - CIGLIANO, A. - PETERS, K. - SUN, B.D. - MENNERICH, D. - KIETZMANN, T. - CALVISI, D.F. - DOMBROWSKI, F. - RIBBACK, S. Transcriptomic and Proteomic Analysis of Clear Cell Foci (CCF) in the Human Non-Cirrhotic Liver Identifies Several Differentially Expressed Genes and Proteins with Functions in Cancer Cell Biology and Glycogen Metabolism. In MOLECULES. SEP 2020, vol. 25, no. 18, 4141, Registrované v: WOS

ADCA98 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. Relation between domain evolution, specificity, and taxonomy of the a-amylase family members containing a C-terminal starch-binding domain. In European Journal of Biochemistry, 2003, vol. 270, p. 635-645. (2002: 2.999 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS).

Citácie:
1. [1.1] HUANG, P. - WU, S.W. - YANG, S.Q. - YAN, Q.J. - JIANG, Z.Q. Structural basis of carbohydrate binding in domain C of a type I pullulanase from Paenibacillus barengoltzii. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, MAY 1 2020, vol. 76, 5, p. 447-457., Registrované v: WOS
2. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

ADCA99 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. A remote but significant sequence homology between glycoside hydrolase clan GH-H and family GH31. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 2007, vol. 581, p. 1261-1268. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR). ISSN 1873-3468.

Citácie:

1. [1.1] GABRISKO, M. The in silico characterization of neutral alpha-glucosidase C (GANC) and its evolution from GANAB. In GENE. ISSN 0378-1119, FEB 5 2020, vol. 726., Registrované v: WOS

2. [1.1] GANGOITI, J. - CORWIN, S.F. - LAMOTHE, L.M. - VAFIADI, C. - HAMAKER, B.R. - DIJKHUIZEN, L. Synthesis of novel alpha-glucans with potential health benefits through controlled glucose release in the human gastrointestinal tract. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2020, vol. 60, no. 1, p. 123-146., Registrované v: WOS

3. [1.1] LIU, J.L. - KONG, Y.C. - MIAO, J.Y. - MEI, X.Y. - WU, S.Y. - YAN, Y.C. - CAO, X.Y. Spectroscopy and molecular docking analysis reveal structural specificity of flavonoids in the inhibition of alpha-glucosidase activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUN 1 2020, vol. 152, p. 981-989., Registrované v: WOS

4. [1.1] VISNAPUU, T. - MELDRE, A. - POSNOGRAJEVA, K. - VIIGAND, K. - ERNITS, K. - ALAMAE, T. Characterization of a Maltase from an Early-Diverged Non-Conventional Yeast Blastobotrys adeninivorans. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 1 2020, vol. 21, no. 1., Registrované v: WOS

ADCA100 JANEČEK, Štefan. Sequence similarities and evolutionary relationships of microbial, plant and animal alpha-amylases. In European Journal of Biochemistry, 1994, vol. 224, p. 519-524.

Citácie:

1. [1.1] BANDARUPALLI, V.V.K. - ST-PIERRE, B. Identification of a Candidate Starch Utilizing Strain of Prevotella albensis from Bovine Rumen. In MICROORGANISMS. DEC 2020, vol. 8, no. 12., Registrované v: WOS

2. [1.1] DESIDERATO, A. - BARBEITOS, M. - GILBERT, C. - DA LAGE, J.L. Horizontal Transfer and Gene Loss Shaped the Evolution of Alpha-Amylases in Bilaterians. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, FEB 2020, vol. 10, no. 2, p. 709-719., Registrované v: WOS

3. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

ADCA101 JANEČEK, Štefan. Alpha-amylase family: molecular biology and evolution. In Progress in Biophysics & Molecular Biology, 1997, vol. 67, p. 67-97. ISSN 0079-6107.

Citácie:

1. [1.1] CHAVEZ-RODRIGUEZ, L. - RODRIGUEZ-VIERA, L. - MONTERO-ALEJO, V. - PERDOMO-MORALES, R. - MANCERA, J.M. - PERERA, E. A Very Active alpha-Amylase and an Inhibitor-Based Control of Proteinases Are Key Features of Digestive Biochemistry of the Omnivorous Caribbean King Crab Maguimithrax spinosissimus. In JOURNAL OF EVOLUTIONARY BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0022-0930, NOV 2020, vol. 56, no. 6, p. 550-564., Registrované v: WOS

2. [1.1] HASHIM, S.O. Starch-Modifying Enzymes. In ALKALIPHILES IN BIOTECHNOLOGY. ISSN 0724-6145, 2020, vol. 172, p. 221-244., Registrované v: WOS

3. [1.2] FERREIRA, André V.F. - SILVA, Felipe F. - SILVA, Ana Amélia M. - AZEVEDO, Lucas S. - DA FONSECA, Sara T.D. - CAMILO, Nathalia H. - DOS SANTOS, Keiza P.E. - DE CARVALHO, Leiliane C. - TARABAL, Vinícius S. - DA SILVA, Jonatas O. - MACHADO, Juliana M. - NOGUEIRA, Laís M. - TORRES, Fernando Araripe G. - GALDINO, Alexsandro S. Recent patents on the industrial application of alpha-amylases. In Recent Patents on Biotechnology. ISSN 18722083, 2020-01-01, 14, 4, pp. 251-268., Registrované v: SCOPUS

ADCA102 JANEČEK, Štefan. Close evolutionary relatedness among functionally distantly related members of the (a/b)8-barrel glycosyl hydrolases suggested by the similarity of their fifth conserved sequence region. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 1995, vol. 377, p. 6-8. ISSN 1873-3468.

Citácie:

1. [1.1] HASHIM, S.O. Starch-Modifying Enzymes. In ALKALIPHILES IN BIOTECHNOLOGY. ISSN 0724-6145, 2020, vol. 172, p. 221-244., Registrované v: WOS

ADCA103 JANEČEK, Štefan - SVENSSON, B. - HENRISSAT, B. Domain evolution in the alpha-amylase

family. In Journal of Molecular Evolution, 1997, vol. 45, p. 322-331. (1996: 3.052 - IF). ISSN 0022-2844.

Citácie:

1. [1.1] CERQUEIRA, F.M. - PHOTENHAUER, A.L. - POLLET, R.M. - BROWN, H.A. - KOROPATKIN, N.M. Starch Digestion by Gut Bacteria: Crowdsourcing for Carbs. In TRENDS IN MICROBIOLOGY. ISSN 0966-842X, FEB 2020, vol. 28, no. 2, p. 95-108., Registrované v: WOS

2. [1.1] KAUR, A. - NEELAM, K. - KAUR, K. - KITAZUMI, A. - DE LOS REYES, B.G. - SINGH, K. Novel allelic variation in the Phospholipase D alpha1 gene (OsPLD alpha 1) of wild Oryza species implies to its low expression in rice bran. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 20 2020, vol. 10, no. 1., Registrované v: WOS

3. [1.1] MEHRVAND, J. - ROODBARI, N.H. - HASSANI, L. - JAFARIAN, V. - KHALIFEH, K. An evolution-based designing and characterization of mutants of cyclomaltodextrinase: Molecular modeling and spectroscopic studies. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, APR 5 2020, vol. 230., Registrované v: WOS

4. [1.1] PINTO, E.S.M. - DORN, M. - FELTES, B.C. The tale of a versatile enzyme: Alpha-amylase evolution, structure, and potential biotechnological applications for the bioremediation of n-alkanes. In CHEMOSPHERE. ISSN 0045-6535, JUL 2020, vol. 250., Registrované v: WOS

5. [1.1] RANE, A.S. - JOSHI, R.S. - GIRI, A.P. Molecular determinant for specificity: Differential interaction of alpha-amylases with their proteinaceous inhibitors. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, DEC 2020, vol. 1864, no. 12., Registrované v: WOS

6. [1.1] SALEM, K. - ELGHARBI, F. - BEN HLIMA, H. - PERDUCA, M. - SAYARI, A. - HMIDA-SAYARI, A. Biochemical characterization and structural insights into the high substrate affinity of a dimeric and Ca2+ independent Bacillus subtilis alpha-amylase. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, JUL 2020, vol. 36, no. 4., Registrované v: WOS

7. [1.1] WU, D. - GRUND, T.N. - WELSCH, S. - MILLS, D.J. - MICHEL, M. - SAFARIAN, S. - MICHEL, H. Structural basis for amino acid exchange by a human heteromeric amino acid transporter. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 1 2020, vol. 117, no. 35, p. 21281-21287., Registrované v: WOS

ADCA104 JANEČEK, Štefan - ŠEVČÍK, Jozef. The evolution of starch-binding domain. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 1999, vol. 456, p. 119-125. ISSN 1873-3468.

Citácie:

1. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

ADCA105 JANEČEK, Štefan - GABRIŠKO, Marek. Remarkable evolutionary relatedness among the enzymes and proteins from the α-amylase family. In Cellular and Molecular Life Sciences, 2016, vol. 73, p. 2707–2725. (2015: 5.694 - IF, Q1 - JCR, 3.400 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-016-2246-6

Citácie:

1. [1.1] CHEN, L. - XU, M.C. - WANG, C.X. - ZHENG, J.S. - HUANG, G.Q. - CHEN, F. - PENG, D.H. - SUN, M. Multi-copy alpha-amylase genes are crucial for Ditylenchus destructor to parasitize the plant host. In PLOS ONE. ISSN 1932-6203, OCT 26 2020, vol. 15, no. 10., Registrované v: WOS

2. [1.1] ITOH, T. - INTUY, R. - SUYOTHA, W. - HAYASHI, J. - YANO, S. - MAKABE, K. - WAKAYAMA, M. - HIBI, T. Structural insights into substrate recognition and catalysis by glycoside hydrolase family 87 alpha-1,3-glucanase from Paenibacillus glycanilyticus FH11. In FEBS JOURNAL. ISSN 1742-464X, JUN 2020, vol. 287, no. 12, p. 2524-2543., Registrované v: WOS

3. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

4. [1.1] LI, Y.Q. - LEI, L. - ZHENG, L. - XIAO, X.M. - TANG, H. - LUO, C.B. Genome sequencing of gut symbiotic Bacillus velezensis LC1 for bioethanol production from bamboo shoots. In BIOTECHNOLOGY FOR BIOFUELS. FEB 28 2020, vol. 13, no. 1., Registrované v: WOS

5. [1.1] PINTO, E.S.M. - DORN, M. - FELTES, B.C. The tale of a versatile enzyme: Alpha-amylase evolution, structure, and potential biotechnological applications for the bioremediation of

n-alkanes. In CHEMOSPHERE. ISSN 0045-6535, JUL 2020, vol. 250., Registrované v: WOS
6. [1.1] RANE, A.S. - JOSHI, R.S. - GIRI, A.P. Molecular determinant for specificity: Differential interaction of alpha-amylases with their proteinaceous inhibitors. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, DEC 2020, vol. 1864, no. 12., Registrované v: WOS
7. [1.1] VISNAPUU, T. - MELDRE, A. - POSNOGRAJEVA, K. - VIIGAND, K. - ERNITS, K. - ALAMAE, T. Characterization of a Maltase from an Early-Diverged Non-Conventional Yeast Blastobotrys adeninivorans. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 1 2020, vol. 21, no. 1., Registrované v: WOS
8. [1.1] WANG, M.M. - MIAO, J.X. - WANG, X.Q. - LI, T. - ZHU, H. - LIU, D.Y. - SHEN, Q.R. Genomic and Transcriptome Analyses of a Thermophilic BacteriumGeobacillus stearothermophilusB5 Isolated from Compost Reveal Its Enzymatic Basis for Lignocellulose Degradation. In MICROORGANISMS. SEP 2020, vol. 8, no. 9., Registrované v: WOS
9. [1.1] WANG, Z.F. - TANG, D. - GUO, H.Y. - SHI, X.L. Transcriptome Analysis Reveals Potential Genes Involved in Digestive Enzyme Function in a Mudflat Crab Helice tientsinensis. In THALASSAS. ISSN 0212-5919, OCT 2020, vol. 36, no. 2, p. 573-583., Registrované v: WOS
10. [1.1] WU, D. - GRUND, T.N. - WELSCH, S. - MILLS, D.J. - MICHEL, M. - SAFARIAN, S. - MICHEL, H. Structural basis for amino acid exchange by a human heteromeric amino acid transporter. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 1 2020, vol. 117, no. 35, p. 21281-21287., Registrované v: WOS
11. [1.1] ZHANG, Z.Q. - JIN, T.C. - XIE, X.F. - BAN, X.F. - LI, C.M. - HONG, Y. - CHENG, L. - GU, Z.B. - LI, Z.F. Structure of maltotetraose-forming amylase from Pseudomonas saccharophila STB07 provides insights into its product specificity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 1 2020, vol. 154, p. 1303-1313., Registrované v: WOS
12. [1.2] Hedín, N., Barchiesi, J., Gomez-Casati, D.F., Busi, M.V. Functional and structural characterization of a novel isoamylase from ostreococcus tauri and role of the n-terminal domain In Open Biotechnology Journal 14(2020), pp. 1-11, Registrované v: SCOPUS

ADCA106 JANEČEK, Štefan - MAJZLOVÁ, Katarína - SVENSSON, B. - MACGREGOR, E.A. The starch-binding domain family CBM41-An in silico analysis of evolutionary relationships. In Proteins : Structure Function and Bioinformatics, 2017, vol. 85, no. 8, p. 1480-1492. (2016: 2.289 - IF, Q3 - JCR, 1.361 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0887-3585. Dostupné na: https://doi.org/10.1002/prot.25309

Citácie:
1. [1.1] IQRAR, U. - JAVAID, H. - ASHRAF, N. - AHMAD, A. - LATIEF, N. - SHAHID, A.A. - AHMAD, W. - IJAZ, B. Structural and Functional Analysis of Pullulanase Type 1 (PulA) from Geobacillus thermopakistaniensis. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, AUG 2020, vol. 62, no. 8, p. 370-379., Registrované v: WOS

ADCA107 JANEČEK, Štefan** - MAREČEK, Filip - MACGREGOR, E.A. - SVENSSON, B. Starch-binding domains as CBM families–history, occurrence, structure, function and evolution. In Biotechnology Advances, 2019, vol. 37, iss. 873, no. 107451. (2018: 12.831 - IF, Q1 - JCR, 3.179 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0734-9750. Dostupné na: https://doi.org/10.1016/j.biotechadv.2019.107451

Citácie:
1. [1.1] BOZIC, N. - ROZEBOOM, H.J. - LONCAR, N. - SLAVIC, M.S. - JANSSEN, D.B. - VUJCIC, Z. Characterization of the starch surface binding site on Bacillus paralicheniformis alpha-amylase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, A, p. 1529-1539., Registrované v: WOS
2. [1.1] GU, L.S. - TAN, M.Z. - LI, S.H. - ZHANG, T. - ZHANG, Q.Q. - LI, C.X. - LUO, X.M. - FENG, J.X. - ZHAO, S. ARTP/EMS-combined multiple mutagenesis efficiently improved production of raw starch-degrading enzymes in Penicillium oxalicum and characterization of the enzyme-hyperproducing mutant. In BIOTECHNOLOGY FOR BIOFUELS. NOV 11 2020, vol. 13, no. 1, 187., Registrované v: WOS
3. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS
4. [1.1] MALINSKA, D. - TESTONI, G. - DURAN, J. - BRUDNICKA, A. - GUINOVART, J.J. - DUSZYNSKI, J. Hallmarks of oxidative stress in the livers of aged mice with mild glycogen branching enzyme deficiency. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, NOV 30 2020, vol. 695., Registrované v: WOS
5. [1.1] SIDAR, A. - ALBUQUERQUE, E.D. - VOSHOL, G.P. - RAM, A.F.J. - VIJGENBOOM, E. -

PUNT, P.J. Carbohydrate Binding Modules: Diversity of Domain Architecture in Amylases and Cellulases From Filamentous Microorganisms. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, JUL 31 2020, vol. 8, 871., Registrované v: WOS

ADCA108 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. Structural and evolutionary aspects of two families of non-catalytic domains present in starch and glycogen binding proteins from microbes, plants and animals. In Enzyme and Microbial Technology, 2011, vol. 49, p. 429-440. (2010: 2.287 - IF, Q2 - JCR, 1.207 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0141-0229. Dostupné na: https://doi.org/10.1016/j.enzmictec.2011.07.002

Citácie:

1. [1.1] CARRILLO, J.B. - TORRESI, F. - MORALES, L.L. - RICORDI, M. - GOMEZ-CASATI, D.F. - BUSI, M.V. - MARTIN, M. Identification and characterization of ChlreSEX4, a novel glucan phosphatase from Chlamydomonas reinhardtii green alga. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, FEB 15 2020, vol. 680, 108235, Registrované v: WOS

2. [1.1] LI, Q. - ZHANG, M. - WU, T. - LIU, R. Potential correlation between carbohydrate-active enzyme family 48 expressed by gut microbiota and the expression of intestinal epithelial AMP-activated protein kinase beta. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, FEB 2020, vol. 44, no. 2., Registrované v: WOS

3. [1.1] TETLOW, I.J. - BERTOFT, E. A Review of Starch Biosynthesis in Relation to the Building Block-Backbone Model. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2020, vol. 21, no. 19., Registrované v: WOS

4. [1.1] WANG, W. - WEI, X.J. - JIAO, G.A. - CHEN, W.Q. - WU, Y.W. - SHENG, Z.H. - HU, S.K. - XIE, L.H. - WANG, J.Y. - TANG, S.Q. - HU, P.S. GBSS-BINDING PROTEIN, encoding a CBM48 domain-containing protein, affects rice quality and yield. In JOURNAL OF INTEGRATIVE PLANT BIOLOGY. ISSN 1672-9072, JUL 2020, vol. 62, no. 7, p. 948-966., Registrované v: WOS

5. [1.2] HEDÍN, Nicolas - BARCHIESI, Julieta - GOMEZ-CASATI, Diego F. - BUSI, María V. Functional and structural characterization of a novel isoamylase from ostreococcus tauri and role of the n-terminal domain. In Open Biotechnology Journal, 2020-01-01, 14, 1, pp. 1-11., Registrované v: SCOPUS

ADCA109 JANÍČKOVÁ, Zuzana - JANEČEK, Štefan**. Fungal α-amylases from three GH13 subfamilies: their sequence-structural features and evolutionary relationships. In International Journal of Biological Macromolecules, 2020, vol. 159, p. 763-772. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2020.05.069

Citácie:

1. [1.1] RANE, A.S. - JOSHI, R.S. - GIRI, A.P. Molecular determinant for specificity: Differential interaction of alpha-amylases with their proteinaceous inhibitors. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, DEC 2020, vol. 1864, no. 12, 129703, Registrované v: WOS

ADCA110 JESZEOVÁ, Lenka - BAUEROVÁ-HLINKOVÁ, Vladena** - BARÁTH, Peter - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Biochemical and proteomic characterization of the extracellular enzymatic preparate of Exiguobacterium undae, suitable for efficient animal glue removal. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 6525-6536. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-018-9105-3

Citácie:

1. [1.2] PARULEKAR-BERDE, Chanda - GHOBLE, Sachin S. - SALVI, Sagar P. - BERDE, Vikrant B. Microorganisms and their enzymes as biorestoration agents. In Microbial Biotechnology Approaches to Monuments of Cultural Heritage, 2020-01-01, pp. 71-86., Registrované v: SCOPUS

ADCA111 JESZEOVÁ, Lenka - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - GRIVALSKÝ, Tomáš - DANKO, Martin - MOSNÁČKOVÁ, Katarína - CHMELA, Štefan - PANGALLO, Domenico**. Microbial communities responsible for the degradation of poly(lactic acid)/poly(3-hydroxybutyrate) blend mulches in soil burial respirometric tests. In World Journal of Microbiology & Biotechnology, 2018, vol. 34, art. no. 101. (2017: 2.100 - IF, Q3 - JCR, 0.604 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-018-2483-y

Citácie:

1. [1.1] FERNANDES, M. - SALVADOR, A. - ALVES, M.M. - VICENTE, A.A. Factors affecting polyhydroxyalkanoates biodegradation in soil. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, DEC 2020, vol. 182., Registrované v: WOS

2. [1.1] RUTHI, J. - BOLSTERLI, D. - PARDI-COMENSOLI, L. - BRUNNER, I. - FREY, B. The "Plastisphere" of Biodegradable Plastics Is Characterized by Specific Microbial Taxa of Alpine

and Arctic Soils. In FRONTIERS IN ENVIRONMENTAL SCIENCE. SEP 24 2020, vol. 8., Registrované v: WOS

ADCA112 JIANG, S. - WAN, Q. - KRAJČÍKOVÁ, Daniela - TANG, J. - TZOKOV, S.B. - BARÁK, Imrich - BULLOUGH, P.A. Diverse supramolecular structures formed by self-assembling proteins of the Bacillus subtilisspore coat. In Molecular Microbiology, 2015, vol. 97, p. 347-359. (2014: 4.419 - IF, Q1 - JCR, 3.184 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/mmi.13030

Citácie:

1. [1.1] ANDRYUKOV, B.G. - KARPENKO, A.A. - LYAPUN, I.N. Learning from Nature: Bacterial Spores as a Target for Current Technologies in Medicine. In SOVREMENNYE TEHNOLOGII V MEDICINE. ISSN 2076-4243, 2020, vol. 12, no. 3, p. 105-122., Registrované v: WOS

2. [1.1] FREITAS, C. - PLANNIC, J. - ISTICATO, R. - PELOSI, A. - ZILHAO, R. - SERRANO, M. - BACCIGALUPI, L. - RICCA, E. - ELSHOLZ, A.K.W. - LOSICK, R. - HENRIQUES, A.O. A protein phosphorylation module patterns theBacillus subtilisspore outer coat. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, DEC 2020, vol. 114, no. 6, p. 934-951., Registrované v: WOS

3. [1.1] ROMERO-RODRIGUEZ, A. - TRONCOSO-COTAL, S. - GUERRERO-ARAYA, E. - PAREDES-SABJA, D. The Clostridioides difficile Cysteine-Rich Exosporium Morphogenetic Protein, CdeC, Exhibits Self-Assembly Properties That Lead to Organized Inclusion Bodies in Escherichia colie. In MSPHERE. ISSN 2379-5042, NOV-DEC 2020, vol. 5, no. 6., Registrované v: WOS

ADCA113 JUNG, T.Y. - LI, D. - PARK, J.T. - YOON, S.M. - TRAN, P.L. - OH, B.H. - JANEČEK, Štefan - PARK, S.G. - WOO, E.J. - PARK, K.H. Association of novel domain in active site of archaic hyperthermophilic maltogenic amylase from Staphylothermus marinus. In Journal of Biological Chemistry, 2012, vol. 278, p. 7979-7989. (2011: 4.773 - IF, Q1 - JCR, 3.544 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M111.304774

Citácie:

1. [1.1] SALEM, K. - ELGHARBI, F. - BEN HLIMA, H. - PERDUCA, M. - SAYARI, A. - HMIDA-SAYARI, A. Biochemical characterization and structural insights into the high substrate affinity of a dimeric and Ca2+ independent Bacillus subtilis alpha-amylase. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, JUL 2020, vol. 36, no. 4, e2964, Registrované v: WOS

ADCA114 JURSKÝ, František - FUCHS, K. - BUHR, A. - TRETTER, V. - SIGEL, E. - SIEGHART, W. Identification of amino acid residues of GABA(A) receptor subunits contributing to the formation and affinity of the tert-butylbicyclophosphorothionate binding site. In Journal of Neurochemistry, 2000, vol. 74, p. 1310-1316. ISSN 0022-3042.

Citácie:

1. [1.1] BENKHEROUF, A.Y. - LOGREN, N. - SOMBORAC, T. - KORTESNIEMI, M. - SOINI, S.L. - YANG, B. - SALO-AHEN, O.M.H. - LAAKSONEN, O. - UUSI-OUKARI, M. Hops compounds modulatory effects and 6-prenylnaringenin dual mode of action on GABA(A) receptors. In EUROPEAN JOURNAL OF PHARMACOLOGY. ISSN 0014-2999, APR 15 2020, vol. 873, 172962., Registrované v: WOS

ADCA115 KACLIKOVA, E. - KRASCENICSOVA, K. - PANGALLO, Domenico - KUCHTA, T. Detection and quantification of Citrobacter freundii and Citrobacter braakii by 5'-nuclease polymerase chain reaction. In Current Microbiology, 2005, vol. 51, p. 229-232. ISSN 0343-8651.

Citácie:

1. [1.1] ZHANG, M.L. - LI, M. - SHENG, Y. - TAN, F. - CHEN, L.Q. - CANN, I. - DU, Z.Y. Citrobacter Species Increase Energy Harvest by Modulating Intestinal Microbiota in Fish: Nondominant Species Play Important Functions. In MSYSTEMS. ISSN 2379-5077, MAY-JUN 2020, vol. 5, no. 3, e00303-20, Registrované v: WOS

ADCA116 KACLIKOVA, E. - PANGALLO, Domenico - ORAVCOVA, K. - DRAHOVSKÁ, H. - KUCHTA, T. Quantification of Escherichia coli by kinetic 5';-nuclease polymerase chain reaction (real-time PCR) oriented to sfmD gene. In Letters in Applied Microbiology, 2005, vol. 41, p. 132-135. (2004: 1.461 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0266-8254.

Citácie:

1. [1.1] STHAPIT, N. - MALLA, B. - SHRESTHA, R.G. - TANDUKAR, S. - SHERCHAND, J.B. - HARAMOTO, E. - KAZAMA, F. Investigation of Shiga Toxin-Producing Escherichia coli in Groundwater, River Water, and Fecal Sources in the Kathmandu Valley, Nepal. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, NOV 16 2020, vol. 231, no. 12., Registrované v: WOS

2. [1.1] YANAGIMOTO, K. - YAMAGAMI, T. - UEMATSU, K. - HARAMOTO, E. Characterization of Salmonella Isolates from Wastewater Treatment Plant Influents to Estimate Unreported Cases and Infection Sources of Salmonellosis. In PATHOGENS. JAN 2020, vol. 9, no. 1., Registrované v: WOS

ADCA117 KEREICHE, S. - KOVÁČIK, L. - BEDNÁR, J. - PEVALA, Vladimír - KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - AMBRO, Ľuboš - BELLOVÁ, Jana - KUTEJOVÁ, Eva - RAŠKA, I. The N-terminal domain plays a crucial role in the structure of a full-length human mitochondrial Lon protease. In Scientific Reports, 2016, vol. 6, no. 33631, p. 1-10. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep33631

Citácie:

1. [1.1] BESSE, A. - BREZAVAR, D. - HANSON, J. - LARSON, A. - BONNEN, P.E. LONP1 de novo dominant mutation causes mitochondrial encephalopathy with loss of LONP1 chaperone activity and excessive LONP1 proteolytic activity. In MITOCHONDRION. ISSN 1567-7249, MAR 2020, vol. 51, p. 68-78., Registrované v: WOS

2. [1.1] BOTOS, I. - LOUNTOS, G.T. - WU, W.M. - CHERRY, S. - GHIRLANDO, R. - KUDZHAEV, A.M. - ROTANOVA, T.V. - DE VAL, N. - TROPEA, J.E. - GUSTCHINA, A. - WLODAWER, A. Cryo-EM structure of substrate-free E. coli Lon protease provides insights into the dynamics of Lon machinery. In CURRENT RESEARCH IN STRUCTURAL BIOLOGY. NOV 2019, vol. 1, p. 13-20., Registrované v: WOS

3. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS

ADCA118 KERRY, V. - BUKOVSKÁ, Gabriela - KRAUS, J.P. Transsulfuration depends on heme in addition to pyridoxal 5';-phosphate. Cystathionine beta-synthase is a heme protein. In Journal of Biological Chemistry, 1994, vol. 269, p. 25283-25288. (1993: 6.793 - IF, karentované - CCC). (1994 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] RAHMAN, A. - GLASGOW, J.N. - NADEEM, S. - REDDY, V.P. - SEVALKAR, R.R. - LANCASTER, Jr - STEYN, A.J.C. The Role of Host-Generated H2S in Microbial Pathogenesis: New Perspectives on Tuberculosis. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, NOV 10 2020, vol. 10., Registrované v: WOS

2. [1.1] VENTURA, P. - CORRADINI, E. - DI PIERRO, E. - MARCHINI, S. - MARCACCI, M. - CUOGHI, C. - BUZZETTI, E. - PIETRANGELO, A. Hyperhomocysteinemia in patients with acute porphyrias: A potentially dangerous metabolic crossroad?. In EUROPEAN JOURNAL OF INTERNAL MEDICINE. ISSN 0953-6205, SEP 2020, vol. 79, p. 101-107., Registrované v: WOS

ADCA119 KHUNKAEWLA, P. - SCHILLER, H.B. - PASTER, W. - LEKSA, Vladimír - CERMÁK, L. - ANDERA, L. - HOREJSI, V. - STOCKINGER, H. LFA-1-mediated leukocyte adhesion regulated by interaction of CD43 with LFA-1 and CD147. In Molecular Immunology, 2008, vol. 45, p. 1703-1711. (2007: 3.742 - IF, Q2 - JCR, 1.971 - SJR, Q1 - SJR). ISSN 0161-5890.

Citácie:

1. [1.1] HOFFMANN, J. - ROTHER, M. - KAISER, U. - THRUN, M.C. - WILHELM, C. - GRUEN, A. - NIEBERGALL, U. - MEISSAUER, U. - NEUBAUER, A. - BRENDEL, C. Determination ofCD43andCD200surface expression improves accuracy of B-cell lymphoma immunophenotyping. In CYTOMETRY PART B-CLINICAL CYTOMETRY. ISSN 1552-4949, NOV 2020, vol. 98, no. 6, p. 476-482., Registrované v: WOS

2. [1.1] RADZIKOWSKA, U. - DING, M. - TAN, G. - ZHAKPAROV, D. - PENG, Y.Q. - WAWRZYNIAK, P. - WANG, M. - LI, S. - MORITA, H. - ALTUNBULAKLI, C. - REIGER, M. - NEUMANN, A.U. - LUNJANI, N. - TRAIDL-HOFFMANN, C. - NADEAU, K.C. - O';MAHONY, L. - AKDIS, C. - SOKOLOWSKA, M. Distribution of ACE2, CD147, CD26, and other SARS-CoV-2 associated molecules in tissues and immune cells in health and in asthma, COPD, obesity, hypertension, and COVID-19 risk factors. In ALLERGY. ISSN 0105-4538, NOV 2020, vol. 75, no. 11, p. 2829-2845., Registrované v: WOS

3. [1.2] FURUHASHI, Kazuhiro - KATO, Noritoshi - KOSUGI, Tomoki - MARUYAMA, Shoichi. Acute kidney injury and cytokines. In Acute Kidney Injury and Regenerative Medicine, 2020-01-01, pp. 333-351., Registrované v: SCOPUS

ADCA120 KIM, Y.H. - MOODY, J.D. - FREEMAN, J.P. - BREZNA, B. - ENGESSER, K.H. - CERNIGLIA, C.E. Evidence for the existence of PAH-quinone reductase and catechol-O-methyltransferase in Mycobacterium vanbaalenii PYR-1. In Journal of Industrial Microbiology and Biotechnology, 2004, vol. 31, p. 507-516. ISSN 1367-5435.

Citácie:

1. [1.1] FU, Q.G. - FEDRIZZI, D. - KOSFELD, V. - SCHLECHTRIEM, C. - GANZ, V. - DERRER, S. - RENTSCH, D. - HOLLENDER, J. Biotransformation Changes Bioaccumulation and Toxicity of Diclofenac in Aquatic Organisms. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, APR 7 2020, vol. 54, no. 7, p. 4400-4408., Registrované v: WOS

ADCA121 KISOVÁ, Zuzana - PLANÝ, Matej - PAVLOVIĆ, Jelena - BUČKOVÁ, Mária - PUŠKÁROVÁ,

Andrea - KRAKOVÁ, Lucia - KAPUSTOVÁ, Magdaléna - PANGALLO, Domenico** - ŠOLTYS, Katarína. Biodeteriogens Characterization and Molecular Analyses of Diverse Funeral Accessories from XVII Century. In Applied Sciences-Basel, 2020, vol. 10, p. 5451. (2019: 2.474 - IF, Q2 - JCR, 0.418 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2076-3417. Dostupné na: https://doi.org/10.3390/app10165451

Citácie:

1. [1.1] PINAR, G. - SCLOCCHI, M.C. - PINZARI, F. - COLAIZZI, P. - GRAF, A. - SEBASTIANI, M.L. - STERFLINGER, K. The Microbiome of Leonardo da Vinci';s Drawings: A Bio-Archive of Their History. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 20 2020, vol. 11., Registrované v: WOS

ADCA122 KLUCAR, L., Ľuboš - STANO, Matej - HAJDUK, Matúš. phiSITE: database of gene regulation in bacteriophages. In Nucleic acids research, 2010, vol. 38, p. D366-D370. (2009: 7.479 - IF, 5.669 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0305-1048. Dostupné na: https://doi.org/10.1093/nar/gkp911

Citácie:

1. [1.1] DE WITT, J. - OETERMANN, S. - PARISE, M. - PARISE, D. - BAUMBACH, J. - STEINBUCHEL, A. Global Regulator of Rubber Degradation in Gordonia polyisoprenivorans VH2: Identification and Involvement in the Regulation Network. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, AUG 2020, vol. 86, no. 15, e00774-20., Registrované v: WOS

2. [1.1] HENDERSON, L.O. - GABALLA, A. - ORSI, R.H. - BOOR, K.J. - WIEDMANN, M. - GUARIGLIA-OROPEZA, V. Transcriptional profiling of the L. monocytogenes PrfA regulon identifies six novel putative PrfA-regulated genes. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, NOV 2020, vol. 367, no. 22, fnaa193., Registrované v: WOS

3. [1.1] JEONG, D.W. - LEE, B. - HEO, S. - OH, Y. - HEO, G. - LEE, J.H. Two genes involved in clindamycin resistance of Bacillus licheniformis and Bacillus paralicheniformis identified by comparative genomic analysis. In PLOS ONE. ISSN 1932-6203, APR 9 2020, vol. 15, no. 4, e0231274., Registrované v: WOS

4. [1.1] LUKIANOVA, A.A. - SHNEIDER, M.M. - EVSEEV, P.V. - SHPIRT, A.M. - BUGAEVA, E.N. - KABANOVA, A.P. - OBRAZTSOVA, E.A. - MIROSHNIKOV, K.K. - SENCHENKOVA, S.N. - SHASHKOV, A.S. - TOSCHAKOV, S.V. - KNIREL, Y.A. - IGNATOV, A.N. - MIROSHNIKOV, K.A. Morphologically Different Pectobacterium brasiliense Bacteriophages PP99 and PP101: Deacetylation of O-Polysaccharide by the Tail Spike Protein of Phage PP99 Accompanies the Infection. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, JAN 23 2020, vol. 10, 3147., Registrované v: WOS

5. [1.1] LUO, J.M. - CUI, H.L. - JIA, H.C. - LI, F. - CHENG, H.J. - SHEN, Y.B. - WANG, M. Identification, Biological Characteristics, and Active Site Residues of 3-Ketosteroid Delta(1)-Dehydrogenase Homologues from Arthrobacter simplex. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, SEP 2 2020, vol. 68, no. 35, p. 9496-9512., Registrované v: WOS

6. [1.1] MISHRA, A. - DHANDA, S. - SIWACH, P. - AGGARWAL, S. - JAYARAM, B. A novel method SEProm for prokaryotic promoter prediction based on DNA structure and energetics. In BIOINFORMATICS. ISSN 1367-4803, APR 15 2020, vol. 36, no. 8, p. 2375-2384., Registrované v: WOS

7. [1.1] OLIVA, M. - CALIA, C. - FERRARA, M. - D';ADDABBO, P. - SCRASCIA, M. - MULE, G. - MONNO, R. - PAZZANI, C. Antimicrobial resistance gene shuffling and a three-element mobilisation system in the monophasic Salmonella typhimurium strain ST1030. In PLASMID. ISSN 0147-619X, SEP 2020, vol. 111, 102532., Registrované v: WOS

8. [1.1] OLIVEIRA, H. - PINTO, G. - MENDES, B. - DIAS, O. - HENDRIX, H. - AKTURK, E. - NOBEN, J.P. - GAWOR, J. - LOBOCKA, M. - LAVIGNE, R. - AZEREDO, J. A Tailspike with Exopolysaccharide Depolymerase Activity from a New Providencia stuartii Phage Makes Multidrug-Resistant Bacteria Susceptible to Serum-Mediated Killing. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, JUL 2020, vol. 86, no. 13, e00073-20., Registrované v: WOS

9. [1.1] PALMER, L.D. - MINOR, K.E. - METTLACH, J.A. - RIVERA, E.S. - BOYD, K.L. - CAPRIOLI, R.M. - SPRAGGINS, J.M. - DALEBROUX, Z.D. - SKAAR, E.P. Modulating Isoprenoid Biosynthesis Increases Lipooligosaccharides and Restores Acinetobacter baumannii Resistance to Host and Antibiotic Stress. In CELL REPORTS. ISSN 2211-1247, SEP 8 2020, vol. 32, no. 10, 108129., Registrované v: WOS

10. [1.1] REN, J. - LEE, H.M. - THAI, T.D. - NA, D. Identification of a cytosine methyltransferase that improves transformation efficiency in Methylomonas sp. DH-1. In BIOTECHNOLOGY FOR BIOFUELS. DEC 7 2020, vol. 13, no. 1, 200., Registrované v: WOS

11. [1.1] RIOS-SANDOVAL, M. - QUINONES-AGUILAR, E.E. - SOLIS-SANCHEZ, G.A. -

ENRIQUEZ-VARA, J.N. - RINCON-ENRIQUEZ, G. Complete Genome Sequence of Xanthomonas vesicatoria Bacteriophage Phi XaF18, a Contribution to the Biocontrol of Bacterial Spot of Pepper in Mexico. In MICROBIOLOGY RESOURCE ANNOUNCEMENTS. ISSN 2576-098X, APR 2020, vol. 9, no. 16, e00213-20., Registrované v: WOS

12. [1.1] SAMPAIO, M. - ROCHA, M. - OLIVEIRA, H. - DIAS, O. Predicting Promoters in Phage Genomes Using Machine Learning Models. In PRACTICAL APPLICATIONS OF COMPUTATIONAL BIOLOGY AND BIOINFORMATICS. ISSN 2194-5357, 2020, vol. 1005, p. 105-112., Registrované v: WOS

13. [1.1] SOLIS-SANCHEZ, G.A. - QUINONES-AGUILAR, E.E. - FRAIRE-VELAZQUEZ, S. - VEGA-ARREGUIN, J. - RINCON-ENRIQUEZ, G. Complete Genome Sequence of XaF13, a Novel Bacteriophage of Xanthomonas vesicatoria from Mexico. In MICROBIOLOGY RESOURCE ANNOUNCEMENTS. ISSN 2576-098X, JAN 2020, vol. 9, no. 5, e01371-19., Registrované v: WOS

ADCA123 KNIRSCHOVÁ, Renáta - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - TIMKO, Jozef - TURŇA, Ján - BISTAKOVA, J. - KORMANEC, Ján. Multiple regulatory genes in the salinomycin biosynthetic gene cluster of Streptomyces albus CCM 4719. In Folia Microbiologica, 2007, vol. 52, no. 4, pp. 359-365. (2006: 0.963 - IF, Q3 - JCR, 0.382 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0015-5632.

Citácie:

1. [1.1] ZHU, Y.P. - XU, W.H. - ZHANG, J. - ZHANG, P.P. - ZHAO, Z.L. - SHENG, D.H. - MA, W. - ZHANG, Y.Z. - BAI, L.Q. - PANG, X.H. A Hierarchical Network of Four Regulatory Genes Controlling Production of the Polyene Antibiotic Candicidin in Streptomyces sp. Strain FR-008. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, MAY 2020, vol. 86, no. 9., Registrované v: WOS

ADCA124 KNIRSCHOVÁ, Renáta - NOVÁKOVÁ, Renáta - MINGYAR, Erik - BEKEOVÁ, Carmen - HOMEROVÁ, Dagmar - KORMANEC, Ján. Utilization of a reporter system based on the blue pigment indigoidine biosynthetic gene bpsA for detection of promoter activity and deletion of genes in Streptomyces. In Journal of microbiological methods, 2015, vol. 113, p. 1-3. (2014: 2.026 - IF, Q3 - JCR, 0.910 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0167-7012. Dostupné na: https://doi.org/10.1016/j.mimet.2015.03.017

Citácie:

1. [1.1] BROWN, A.S. - CALCOTT, M.J. - COLLINS, V.M. - OWEN, J.G. - ACKERLEY, D.F. The indigoidine synthetase BpsA provides a colorimetric ATP assay that can be adapted to quantify the substrate preferences of other NRPS enzymes. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, DEC 2020, vol. 42, no. 12, p. 2665-2671., Registrované v: WOS

2. [1.1] WANG, Q.S. - XIE, F. - TONG, Y.J. - HABISCH, R. - YANG, B.W. - ZHANG, L.X. - MULLER, R. - FU, C.Z. Dual-function chromogenic screening-based CRISPR/Cas9 genome editing system for actinomycetes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, JAN 2020, vol. 104, no. 1, p. 225-239., Registrované v: WOS

ADCA125 KORMANEC, Ján - ŠEVČÍKOVÁ, Beatrica. Identification and transcriptional analysis of a cold shock inducible gene, cspA, in Streptomyces coelicolor A3(2). In Molecular Genetics and Genomics, 2000, vol. 264, p. 251-256. ISSN 1617-4615.

Citácie:

1. [1.1] DE LA NIETA, R.S. - ANTORAZ, S. - ALZATE, J.F. - SANTAMARIA, R.I. - DIAZ, M. Antibiotic Production and Antibiotic Resistance: The Two Sides of AbrB1/B2, a Two-Component System of Streptomyces coelicolor. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, OCT 9 2020, vol. 11, 587750, Registrované v: WOS

ADCA126 KORMANEC, Ján** - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - ŠEVČÍKOVÁ, Beatrica - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra. Recent achievements in the generation of stable genome alterations/mutations in species of the genus Streptomyces. In Applied Microbiology and Biotechnology, 2019, vol. 103, p. 5463–5482. (2018: 3.670 - IF, Q2 - JCR, 1.127 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-019-09901-0

Citácie:

1. [1.1] MITOUSIS, L. - THOMA, Y. - MUSIOL-KROLL, E.M. An Update on Molecular Tools for Genetic Engineering of Actinomycetes-The Source of Important Antibiotics and Other Valuable Compounds. In ANTIBIOTICS-BASEL. ISSN 2079-6382, AUG 2020, vol. 9, no. 8., Registrované v: WOS

2. [1.1] ZHAO, Y.W. - LI, G.Q. - CHEN, Y.L. - LU, Y.H. Challenges and Advances in Genome Editing Technologies in Streptomyces. In BIOMOLECULES. MAY 2020, vol. 10, no. 5., Registrované v: WOS

ADCA127 KORMANEC, Ján - NOVÁKOVÁ, Renáta - MINGYAR, Erik - FECKOVÁ, Ľubomíra. Intriguing properties of the angucycline antibiotic auricin and complex regulation of its biosynthesis. In Applied Microbiology and Biotechnology, 2014, vol. 98, p. 45–60. (2013: 3.811 - IF, Q1 - JCR, 1.533 - SJR,

karentované - CCC). (2014 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-013-5373-0

Citácie:

1. [1.1] XIA, H.Y. - ZHAN, X.Q. - MAO, X.M. - LI, Y.Q. The regulatory cascades of antibiotic production in Streptomyces. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, JAN 2 2020, vol. 36, no. 1., Registrované v: WOS

ADCA128 KORMANEC, Ján - SCHAAFF-GERSTENSCHLAGER, I. - ZIMMERMANN, F.K. - PEREČKO, D. - KUNTZEL, H. Nuclear migration in Saccharomyces cerevisiae is controlled by the highly repetitive 313 kD NUM1 protein. In Molecular Genetics and Genomics, 1991, vol. 230, p. 277-287. ISSN 1617-4615.

Citácie:

1. [1.1] KLECKER, T. - WESTERMANN, B. Asymmetric inheritance of mitochondria in yeast. In BIOLOGICAL CHEMISTRY. ISSN 1431-6730, MAY 2020, vol. 401, no. 6-7, p. 779-791., Registrované v: WOS

ADCA129 KOZICS, Katarína - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KALÁSZOVÁ, V. - CABICAROVÁ, T. - PANGALLO, Domenico**. The effect of ten essential oils on several cutaneous drug-resistant microorganisms and their cyto/genotoxic and antioxidant properties. In Molecules, 2019, vol. 24, no. 24, art. no. 4570. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules24244570 (VEGA 2/0027/16 : Antioxidačné, antikarcinogénne a fotoprotektívne účinky levanduľového oleja in vitro)

Citácie:

1. [1.1] ALEXA, V.T. - SZUHANEK, C. - COZMA, A. - GALUSCAN, A. - BORCAN, F. - OBISTIOIU, D. - DEHELEAN, C.A. - JUMANCA, D. Natural Preparations Based on Orange, Bergamot and Clove Essential Oils and Their Chemical Compounds as Antimicrobial Agents. In MOLECULES. DEC 2020, vol. 25, no. 23., Registrované v: WOS

2. [1.1] DAI, D.N. - CHUNG, N.T. - HUONG, L.T. - HUNG, N.H. - CHAU, D.T.M. - YEN, N.T. - SETZER, W.N. Chemical Compositions, Mosquito Larvicidal and Antimicrobial Activities of Essential Oils from Five Species of Cinnamomum Growing Wild in North Central Vietnam. In MOLECULES. MAR 2 2020, vol. 25, no. 6., Registrované v: WOS

3. [1.1] DENG, X.L. - CHEN, J.H. - CHEN, W. Hydrogel particles as a controlled release delivery system for lavender essential oil using pH triggers. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, OCT 20 2020, vol. 603., Registrované v: WOS

4. [1.1] LOMBREA, A. - ANTAL, D. - ARDELEAN, F. - AVRAM, S. - PAVEL, I.Z. - VLAIA, L. - MUT, A.M. - DIACONEASA, Z. - DEHELEAN, C.A. - SOICA, C. - DANCIU, C. A Recent Insight Regarding the Phytochemistry and Bioactivity of Origanum vulgare L. Essential Oil. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2020, vol. 21, no. 24., Registrované v: WOS

5. [1.1] RAMSEY, J.T. - SHROPSHIRE, B.C. - NAGY, T.R. - CHAMBERS, K.D. - LI, Y. - KORACH, K.S. Essential Oils and Health. In YALE JOURNAL OF BIOLOGY AND MEDICINE. ISSN 0044-0086, JUN 2020, vol. 93, no. 2, p. 291-305., Registrované v: WOS

ADCA130 KRAJČÍKOVÁ, Daniela - LUKÁČOVÁ, Magdaléna - MULLEROVÁ, Denisa - CUTTING, S.M. - BARÁK, Imrich. Searching for protein-protein interactions within the bacillus subtilis spore coat. In Journal of Bacteriology, 2009, vol. 191, p. 3212-3219. (2008: 3.636 - IF, Q1 - JCR, 2.639 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0021-9193.

Citácie:

1. [1.1] SECAIRA-MOROCHO, H. - CASTILLO, J.A. - DRIKS, A. Diversity and evolutionary dynamics of spore-coat proteins in spore-forming species of Bacillales. In MICROBIAL GENOMICS. ISSN 2057-5858, NOV 2020, vol. 6, no. 11., Registrované v: WOS

ADCA131 KRAJČÍKOVÁ, Daniela - FORGÁČ, Vladimír - SZABO, Adam - BARÁK, Imrich. Exploring the interaction network of the Bacillus subtilis outer coat and crust proteins. In Microbiological Research, 2017, vol. 204, p. 72-80. (2016: 3.037 - IF, Q2 - JCR, 1.104 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2017.08.004

Citácie:

1. [1.1] FREITAS, C. - PLANNIC, J. - ISTICATO, R. - PELOSI, A. - ZILHAO, R. - SERRANO, M. - BACCIGALUPI, L. - RICCA, E. - ELSHOLZ, A.K.W. - LOSICK, R. - HENRIQUES, A.O. A protein phosphorylation module patterns theBacillus subtilisspore outer coat. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, DEC 2020, vol. 114, no. 6, p. 934-951., Registrované v: WOS

2. [1.1] SECAIRA-MOROCHO, H. - CASTILLO, J.A. - DRIKS, A. Diversity and evolutionary dynamics of spore-coat proteins in spore-forming species of Bacillales. In MICROBIAL

GENOMICS. ISSN 2057-5858, NOV 2020, vol. 6, no. 11., Registrované v: WOS

ADCA132 KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - SELIM, S.A. - ŠIMONOVIČOVÁ, A. - PUŠKÁROVÁ, Andrea - MAKOVÁ, A. - PANGALLO, Domenico. A multiphasic approach for investigation of the microbial diversity and its biodegradative abilities in historical paper and parchment documents. In International Biodeterioration & Biodegradation, 2012, vol. 70, p. 117-125. (2011: 2.074 - IF, Q2 - JCR, 0.917 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2012.01.011

Citácie:

1. [1.1] ANNA, W. - DOROTA, R. - MANSUR, R. - SLAWOMIR, W. Microorganisms colonising historical cardboard objects from the Auschwitz-Birkenau State Museum in Oswiecim, Poland and their disinfection with vaporised hydrogen peroxide (VHP). In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2020, vol. 152., Registrované v: WOS

2. [1.1] AWAD, A.H.A. - SAEED, Y. - SHAKOUR, A.A. - ABDELLATIF, N.M. - IBRAHIM, Y.H. - ELGHANAM, M. - ELWAKEEL, F. Indoor air fungal pollution of a historical museum, Egypt: a case study. In AEROBIOLOGIA. ISSN 0393-5965, JUN 2020, vol. 36, no. 2, p. 197-209., Registrované v: WOS

3. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

4. [1.1] KWASNA, H. - KARBOWSKA-BERENT, J. - BEHNKE-BOROWCZYK, J. Effect of Fungi on the Destruction of Historical Parchment and Paper Documents. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2020, vol. 29, no. 4, p. 2679-2695., Registrované v: WOS

5. [1.1] PINAR, G. - SCLOCCHI, M.C. - PINZARI, F. - COLAIZZI, P. - GRAF, A. - SEBASTIANI, M.L. - STERFLINGER, K. The Microbiome of Leonardo da Vinci';s Drawings: A Bio-Archive of Their History. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 20 2020, vol. 11., Registrované v: WOS

6. [1.1] PINAR, G. - TAFER, H. - SCHREINER, M. - MIKLAS, H. - STERFLINGER, K. Decoding the biological information contained in two ancient Slavonic parchment codices: an added historical value. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, AUG 2020, vol. 22, no. 8, p. 3218-3233., Registrované v: WOS

7. [1.1] RYBITWA, D. - WAWRZYK, A. - RAHNAMA, M. Application of a Medical Diode Laser (810 nm) for Disinfecting Small Microbiologically Contaminated Spots on Degraded Collagenous Materials for Improved Biosafety in Objects of Exceptional Historical Value From the Auschwitz-Birkenau State Museum and Protection of Human Health. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, DEC 18 2020, vol. 11., Registrované v: WOS

8. [1.1] RYBITWA, D. - WAWRZYK, A. - WILCZYNSKI, S. - LOBACZ, M. Irradiation with medical diode laser as a new method of spot-elimination of microorganisms to preserve historical cellulosic objects and human health. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, OCT 2020, vol. 154., Registrované v: WOS

ADCA133 KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - ŽENIŠOVÁ, K. - TURCOVSKÁ, V. - BREŽNÁ, Barbara - KUCHTA, T. - PANGALLO, Domenico. Yeast diversity investigation of wine-related samples from two different Slovakian wine-producing areas through a multistep procedure. In LWT - Food Science and Technology, 2012, vol. 46, p. 406-411. (2011: 2.545 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0023-6438. Dostupné na: https://doi.org/10.1016/j.lwt.2011.12.010

Citácie:

1. [1.1] OLIVA, J. - GIRON, F. - CAYUELA, J.M. - MULERO, J. - ZAFRILLA, P. - CAMARA, M.A. Effect of fungicides on the yeast population during spontaneous fermentation in the vinification of monastrell grapes. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, SEP 2020, vol. 131, 109816, Registrované v: WOS

ADCA134 KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - PANGALLO, Domenico. A novel PCR-based approach for the detection and classification of potential cellulolytic fungal strains isolated from museum items and surrounding indoor environment. In Letters in Applied Microbiology, 2012, vol. 54, p. 433-440. (2011: 1.622 - IF, Q3 - JCR, 0.749 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0266-8254. Dostupné na: https://doi.org/10.1111/j.1472-765X.2012.03227.x

Citácie:

1. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

ADCA135 KRAKOVÁ, Lucia - ŠOLTÝS, K. - BUDIŠ, J. - GRIVALSKÝ, Tomáš - ĎURIŠ, F. - PANGALLO,

Domenico. Investigation of bacterial and archaeal communities: novel protocols using modern sequencing by Illumina MiSeq and traditional DGGE-cloning. In Extremophiles, 2016, vol. 20, p. 795–808. (2015: 2.346 - IF, Q3 - JCR, 0.953 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-016-0855-5

Citácie:

1. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

2. [1.1] GONZALEZ-BENITEZ, N. - BAUTISTA, L.F. - SIMARRO, R. - VARGAS, C. - SALMERON, A. - MURILLO, Y. - MOLINA, M.C. Bacterial diversity in aqueous/sludge phases within diesel fuel storage tanks. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, NOV 9 2020, vol. 36, no. 12, 180, Registrované v: WOS

3. [1.1] SHARMA, R. - POONIYA, V. - BISARIA, V.S. - SWARNALAKSHMI, K. - SHARMA, S. Bioinoculants play a significant role in shaping the rhizospheric microbial community: a field study with Cajanus cajan. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, MAR 4 2020, vol. 36, no. 3, 44, Registrované v: WOS

ADCA136 KRAKOVÁ, Lucia - ŠOLTYS, Katarína - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - JESZEOVÁ, Lenka - KUCHARÍK, Marcel - BUDIŠ, Jaroslav - OROVČÍK, Ľubomír - SZEMES, Tomáš - PANGALLO, Domenico**. The microbiomes of a XVIII century mummy from the castle of Krasna Horka (Slovakia) and its surrounding environment. In Environmental microbiology, 2018, vol. 20, iss. 9, p. 3294-3308. (2017: 4.974 - IF, Q1 - JCR, 2.209 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.14312

Citácie:

1. [1.1] DEMARCHI, B. - BOANO, R. - CERON, A. - DAL BELLO, F. - FAVERO-LONGO, S.E. - FIDDYMENT, S. - MAROCHETTI, E.F. - MANGIAPANE, G. - MATTONAI, M. - PENNACINI, C. - RIBECHINI, E. - WOOLLEY, J. - ZILBERSTEIN, G. - RIGHETTI, P.G. Never boring: Non-invasive palaeoproteomics of mummified human skin. In JOURNAL OF ARCHAEOLOGICAL SCIENCE. ISSN 0305-4403, JUL 2020, vol. 119, 105145, Registrované v: WOS

2. [1.1] GUTAROWSKA, B. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

3. [1.1] TEPLA, B. - DEMNEROVA, K. - STIBOROVA, H. History and microbial biodeterioration of audiovisual materials. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, JUL-AUG 2020, vol. 44, p. 218-228., Registrované v: WOS

4. [1.1] TIEW, P.Y. - MAC AOGAIN, M. - ALI, N.A.B.M. - THNG, K.X. - GOH, K. - LAU, K.J.X. - CHOTIRMALL, S.H. The Mycobiome in Health and Disease: Emerging Concepts, Methodologies and Challenges. In MYCOPATHOLOGIA. ISSN 0301-486X, APR 2020, vol. 185, no. 2, p. 207-231., Registrované v: WOS

5. [1.2] PARULEKAR-BERDE, Chanda - GHOBLE, Sachin S. - SALVI, Sagar P. - BERDE, Vikrant B. Microorganisms and their enzymes as biorestoration agents. In Microbial Biotechnology Approaches to Monuments of Cultural Heritage, 2020-01-01, pp. 71-86., Registrované v: SCOPUS

ADCA137 KRAKOVÁ, Lucia - DE LEO, F. - BRUNO, L. - PANGALLO, Domenico - URZI, C. Complex bacterial diversity in the white biofilms of the Catacombs of St. Callixtus in Rome evidenced by different investigation strategies. In Environmental microbiology, 2015, vol. 17, p. 1738-1752. (2014: 6.201 - IF, Q1 - JCR, 2.862 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.12626

Citácie:

1. [1.1] JROUNDI, F. - ELERT, K. - RUIZ-AGUDO, E. - GONZALEZ-MUNOZ, M.T. - RODRIGUEZ-NAVARRO, C. Bacterial Diversity Evolution in Maya Plaster and Stone Following a Bio-Conservation Treatment. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 9 2020, vol. 11., Registrované v: WOS

2. [1.1] LI, Y.H. - WU, R.B. - XIE, H.R. - ZHAO, G.L. - DANG, X.Y. - HOKOI, S. Water film in very high humidity inhibits mold growth on the damp surface of soil ruins. In BUILDING AND ENVIRONMENT. ISSN 0360-1323, AUG 15 2020, vol. 181., Registrované v: WOS

3. [1.1] LI, Y.H. - ZHANG, W.L. - WU, R.B. - DANG, X.Y. - HOKOI, S. High Air Relative Humidity and Lighting Modes Govern Mould Growths on Damp Soil Ruins'; Surface in High-Humidity Regions. In 12TH NORDIC SYMPOSIUM ON BUILDING PHYSICS (NSB 2020). ISSN 2267-1242, 2020, vol. 172., Registrované v: WOS

4. [1.1] LOUATI, M. - ENNIS, N.J. - GHODHBANE-GTARI, F. - HEZBRI, K. - SEVIGNY, J.L. - FAHNESTOCK, M.F. - CHERIF-SILINI, H. - BRYCE, J.G. - TISA, L.S. - GTARI, M. Elucidating the ecological networks in stone-dwelling microbiomes. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, APR 2020, vol. 22, no. 4, p. 1467-1480., Registrované v: WOS

5. [1.1] MA, W.X. - WU, F.S. - TIAN, T. - HE, D.P. - ZHANG, Q. - GU, J.D. - DUAN, Y.L. - MA, D.X. - WANG, W.F. - FENG, H.Y. Fungal diversity and its contribution to the biodeterioration of mural paintings in two 1700-year-old tombs of China. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2020, vol. 152., Registrované v: WOS

ADCA138 KRAKOVÁ, Lucia - ŠOLTÝS, K. - OTLEWSKA, A. - PIETRZAK, K. - PURKRTOVÁ, S. - SAVICKÁ, D. - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - SZEMES, Tomáš - BUDIŠ, J. - DEMNEROVA, K. - GUTAROWSKA, B. - PANGALLO, Domenico**. Comparison of methods for identification of microbial communities in book collections: Culture-dependent (sequencing and MALDI-TOF MS) and culture-independent (Illumina MiSeq). In International Biodeterioration & Biodegradation, 2018, vol. 131, p. 51-59. (2017: 3.562 - IF, Q1 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2017.02.015

Citácie:

1. [1.1] ANNA, W. - DOROTA, R. - MANSUR, R. - SLAWOMIR, W. Microorganisms colonising historical cardboard objects from the Auschwitz-Birkenau State Museum in Oswiecim, Poland and their disinfection with vaporised hydrogen peroxide (VHP). In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2020, vol. 152, 104997, Registrované v: WOS

2. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

3. [1.1] HUPFAUF, S. - ETEMADI, M. - JUAREZ, M.F.D. - GOMEZ-BRANDON, M. - INSAM, H. - PODMIRSEG, S.M. CoMA - an intuitive and user-friendly pipeline for amplicon-sequencing data analysis. In PLOS ONE. ISSN 1932-6203, DEC 2 2020, vol. 15, no. 12, e0243241, Registrované v: WOS

4. [1.1] JO, H. - TAGELE, S.B. - PHAM, H.Q. - KIM, M.C. - CHOI, S.D. - KIM, M.J. - PARK, Y.J. - IBAL, J.C. - PARK, G.S. - SHIN, J.H. Response of Soil Bacterial Community and Pepper Plant Growth to Application of Bacillus thuringiensis KNU-07. In AGRONOMY-BASEL. APR 2020, vol. 10, no. 4, 551, Registrované v: WOS

5. [1.1] PINAR, G. - SCLOCCHI, M.C. - PINZARI, F. - COLAIZZI, P. - GRAF, A. - SEBASTIANI, M.L. - STERFLINGER, K. The Microbiome of Leonardo da Vinci';s Drawings: A Bio-Archive of Their History. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 20 2020, vol. 11, 593401, Registrované v: WOS

6. [1.1] PINHEIRO, A.C. - SEQUEIRA, S.O. - POUSADA, R. Communicating science: The making of a comics poster on biodeterioration. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, NOV 2020, vol. 155., Registrované v: WOS

7. [1.1] ROSADO, T. - DIAS, L. - LANCA, M. - NOGUEIRA, C. - SANTOS, R. - MARTINS, M.R. - CANDEIAS, A. - MIRAO, J. - CALDEIRA, A.T. Assessment of microbiota present on a Portuguese historical stone convent using high-throughput sequencing approaches. In MICROBIOLOGYOPEN. ISSN 2045-8827, JUN 2020, vol. 9, no. 6, e1030, Registrované v: WOS

8. [1.1] RYBITWA, D. - WAWRZYK, A. - RAHNAMA, M. Application of a Medical Diode Laser (810 nm) for Disinfecting Small Microbiologically Contaminated Spots on Degraded Collagenous Materials for Improved Biosafety in Objects of Exceptional Historical Value From the Auschwitz-Birkenau State Museum and Protection of Human Health. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, DEC 18 2020, vol. 11., Registrované v: WOS

9. [1.1] RYBITWA, D. - WAWRZYK, A. - WILCZYNSKI, S. - LOBACZ, M. Irradiation with medical diode laser as a new method of spot-elimination of microorganisms to preserve historical cellulosic objects and human health. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, OCT 2020, vol. 154, 105055, Registrované v: WOS

10. [1.1] ZHANG, J.W. - PLOWMAN, J.E. - TIAN, B. - CLERENS, S. - ON, S.L.W. An improved method for MALDI-TOF analysis of wine-associated yeasts. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, MAY 2020, vol. 172, 105904, Registrované v: WOS

11. [1.2] ZHANG, Ying - KONG, Qiangqiang - WU, Dingmeng - LI, Angui - GAO, Ran. Characteristics of fungal aerosol concentration and particle size distribution in a university library in Xi';an. In Xi';an Jianzhu Keji Daxue Xuebao/Journal of Xi';an University of Architecture and Technology. ISSN 10067930, 2020-04-28, 52, 2, pp., Registrované v: SCOPUS

ADCA139 KUCHTOVÁ, Andrea - JANEČEK, Štefan. Domain evolution in enzymes of the neopullulanase subfamily. In Microbiology, 2016, vol. 162, no. 12, p. 2099-2115. (2015: 2.268 - IF, Q3 - JCR, 1.352 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.000390

Citácie:

1. [1.1] CERQUEIRA, F.M. - PHOTENHAUER, A.L. - POLLET, R.M. - BROWN, H.A. - KOROPATKIN, N.M. Starch Digestion by Gut Bacteria: Crowdsourcing for Carbs. In TRENDS IN MICROBIOLOGY. ISSN 0966-842X, FEB 2020, vol. 28, no. 2, p. 95-108., Registrované v: WOS

2. [1.1] MEHRVAND, J. - ROODBARI, N.H. - HASSANI, L. - JAFARIAN, V. - KHALIFEH, K. An evolution-based designing and characterization of mutants of cyclomaltodextrinase: Molecular modeling and spectroscopic studies. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, APR 5 2020, vol. 230., Registrované v: WOS

ADCA140 KUCHTOVÁ, Andrea - JANEČEK, Štefan. In silico analysis of family GH77 with focus on amylomaltases from borreliae and disproportionating enzymes DPE2 from plants and bacteria. In Biochimica et Biophysica Acta : proteins and proteomics, 2015, vol. 1854, p. 1260–1268. (2014: 2.747 - IF, Q2 - JCR, 1.381 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1570-9639. Dostupné na: https://doi.org/10.1016/j.bbapap.2015.05.009

Citácie:

1. [1.1] JEONG, D.W. - JEONG, H.M. - SHIN, Y.J. - WOO, S.H. - SHIM, J.H. Properties of recombinant 4-alpha-glucanotransferase from Bifidobacterium longum subsp. longum JCM 1217 and its application. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAY 2020, vol. 29, no. 5, p. 667-674., Registrované v: WOS

ADCA141 KUCHTOVÁ, Andrea - GENTRY, M.S. - JANEČEK, Štefan**. The unique evolution of the carbohydrate-binding module CBM20 in laforin. In FEBS Letters, 2018, vol. 592, no. 4, p. 586-598. (2017: 2.999 - IF, Q2 - JCR, 1.991 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1873-3468. Dostupné na: https://doi.org/10.1002/1873-3468.12994

Citácie:

1. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

ADCA142 KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - BELLOVÁ, Jana - AMBRO, Ľuboš - MARTINÁKOVÁ, Lucia - KOTRASOVÁ, Veronika - KUTEJOVÁ, Eva - PEVALA, Vladimír. The role of Lon-mediated proteolysis in the dynamics of mitochondrial nucleic acid-protein complexes. In Scientific Reports, 2017, vol. 7, art. no. 631. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-00632-8

Citácie:

1. [1.1] CHOI, J. - GROISMAN, E.A. Salmonella expresses foreign genes during infection by degrading their silencer. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, APR 7 2020, vol. 117, no. 14, p. 8074-8082., Registrované v: WOS

2. [1.1] DESHWAL, S. - FIEDLER, K.U. - LANGER, T. Mitochondrial Proteases: Multifaceted Regulators of Mitochondrial Plasticity. In ANNUAL REVIEW OF BIOCHEMISTRY, VOL 89. ISSN 0066-4154, 2020, vol. 89, p. 501-528., Registrované v: WOS

3. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS

4. [1.1] GOKE, A. - SCHROTT, S. - MIZRAK, A. - BELYY, V. - OSMAN, C. - WALTER, P. Mrx6 regulates mitochondrial DNA copy number in Saccharomyces cerevisiae by engaging the evolutionarily conserved Lon protease Pim1. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, MAR 19 2020, vol. 31, no. 7, SI, p. 527-545., Registrované v: WOS

5. [1.1] NOURI, K. - FENG, Y. - SCHIMMER, A.D. Mitochondrial ClpP serine protease-biological function and emerging target for cancer therapy. In CELL DEATH & DISEASE. ISSN 2041-4889, OCT 9 2020, vol. 11, no. 10., Registrované v: WOS

6. [1.1] YANG, G.Q. - LIU, Z.J. - ZHANG, R.L. - TIAN, X.H. - CHEN, J. - HAN, G.M. - LIU, B.H. - HAN, X.Y. - FU, Y. - HU, Z.J. - ZHANG, Z.P. A Multi-responsive Fluorescent Probe Reveals Mitochondrial Nucleoprotein Dynamics with Reactive Oxygen Species Regulation through Super-resolution Imaging. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, SEP 7 2020, vol. 59, no. 37, p. 16154-16160., Registrované v: WOS

ADCA143 KUTAŠ, Peter - FECKOVÁ, Ľubomíra - REHÁKOVÁ, Alena - NOVÁKOVÁ, Renáta - HOMEROVÁ, Dagmar - MINGYAR, Erik - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján. Strict control of auricin production in Streptomyces aureofaciens CCM 3239 involves a feedback mechanism. In Applied Microbiology and Biotechnology, 2013, vol. 97, p. 2413-2421. (2012: 3.689 - IF, Q1 - JCR, 1.488 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current

Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-012-4505-2
Citácie:
1. [1.1] ZHOU, Q. - NING, S.Q. - LUO, Y.Z. Coordinated regulation for nature products discovery and overproduction in Streptomyces. In SYNTHETIC AND SYSTEMS BIOTECHNOLOGY. ISSN 2405-805X, JUN 2020, vol. 5, no. 2, p. 49-58., Registrované v: WOS

ADCA144 LEKSA, Vladimír - LOEWE, R. - BINDER, B. - SCHILLER, H.B. - ECKERSTORFER, P. - FORSTER, F. - SOLER-CARDONA, A. - ONDROVIČOVÁ, Gabriela - KUTEJOVÁ, Eva - STEINHUBER, E. - BREUSS, J. - DRACH, J. - PETZELBAUER, P. - BINDER, B.R. - STOCKINGER, H. Soluble M6P/IGF2R released by TACE controls Angiogenesis via blocking Plasminogen Activation. In Circulation research, 2011, vol. 108, p. 676-685. (2010: 9.504 - IF, Q1 - JCR, 5.615 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0009-7330. Dostupné na: https://doi.org/10.1161/CIRCRESAHA.110.234732
Citácie:
1. [1.1] DWYER, B. - LUNDBERG, D. - ISKENDERIAN, A. - STRACK-LOGUE, B. - PESCATORE, B. - NORTON, A.W. - XU, J. - MEIYAPPAN, M. - CONCINO, M.F. - ZHANG, B.H. Expression, purification, and characterization of human mannose-6-phosphate receptor - Extra cellular domain from a stable cell line utilizing a small molecule biomimetic of the mannose-6-phosphate moiety. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, JUN 2020, vol. 170., Registrované v: WOS

ADCA145 LEKSA, Vladimír - GODAR, S. - SCHILLER, H.B. - FUERTBAUER, E. - MUHAMMAD, A. - SLEZÁKOVÁ, Katarína - HOREJSI, V. - STEINLEIN, P. - WEIDLE, U.H. - BINDER, B.R. - STOCKINGER, H. TGF-ß-induced apoptosis in endothelial cells mediated by M6P/IGFII-R and mini-plasminogen. In Journal of Cell Science, 2005, vol. 118, p. 4577-4586. ISSN 0021-9533.
Citácie:
1. [1.1] KANDASAMY, M. - ANUSUYADEVI, M. - AIGNER, K.M. - UNGER, M.S. - KNIEWALLNER, K.M. - DE SOUSA, D.M.B. - ALTENDORFER, B. - MROWETZ, H. - BOGDAHN, U. - AIGNER, L. TGF-beta Signaling: A Therapeutic Target to Reinstate Regenerative Plasticity in Vascular Dementia?. In AGING AND DISEASE. ISSN 2152-5250, AUG 2020, vol. 11, no. 4, p. 828-850., Registrované v: WOS

ADCA146 LEVDIKOV, V. - BLAGOVA, E. - RAWLINGS, A.E. - JAMESON, K. - TUNALEY, J. - HART, D.J. - BARÁK, Imrich - WILKINSON, A.J. Structure of the phosphatase domain of the cell fate determinant SpoIIE from Bacillus subtilis. In Journal of Molecular Biology, 2012, vol. 415, p. 343-358. (2011: 4.001 - IF, Q2 - JCR, 3.142 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-2836. Dostupné na: https://doi.org/10.1016/j.jmb.2011.11.017
Citácie:
1. [1.1] CHEN, M. - LYU, Y.F. - FENG, E.L. - ZHU, L. - PAN, C. - WANG, D.S. - LIU, X.K. - WANG, H.L. SpoVG Is Necessary for Sporulation in Bacillus anthracis. In MICROORGANISMS. APR 2020, vol. 8, no. 4., Registrované v: WOS

ADCA147 LEVEQUE, E. - JANEČEK, Štefan - HAYE, B. - BELARBI, A. Thermophilic archaeal amylolytic enzymes. In Enzyme and Microbial Technology, 2000, vol. 26, p. 3-14. ISSN 0141-0229.
Citácie:
1. [1.1] JAGADEESAN, S. - GOVINDARAJU, I. - MAZUMDER, N. An Insight into the Ultrastructural and Physiochemical Characterization of Potato Starch: a Review. In AMERICAN JOURNAL OF POTATO RESEARCH. ISSN 1099-209X, OCT 2020, vol. 97, no. 5, p. 464-476., Registrované v: WOS
2. [1.1] KHIAOSA-ARD, R. - MAHMOOD, M. - LERCH, F. - TRAINTINGER, F.P. - PETRI, R.M. - MUNNICH, M. - ZEBELI, Q. Physicochemical stressors and mixed alkaloid supplementation modulate ruminal microbiota and fermentation in vitro. In ANAEROBE. ISSN 1075-9964, OCT 2020, vol. 65, 102263, Registrované v: WOS
3. [1.1] NAWAZ, M.A. - PERVEZ, S. - REHMAN, H.U. - JAMAL, M. - JAN, T. - HAZRAT, A. - ATTAULLAH, M. - KHAN, W. - UL QADER, S.A. Utilization of different polymers for the improvement of catalytic properties and recycling efficiency of bacterial maltase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 1344-1352., Registrované v: WOS

ADCA148 LEWIS, C. - ŠKOVIEROVÁ, Henrieta - ROWLEY, G. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - STEVENSON, A. - SHERRY, A. - KORMANEC, Ján - ROBERTS, M. Small outer membrane lipoprotein, SmpA, is regulated by RpoE and has a role in cell envelope integrity and virulence of Salmonella enterica Serovar Typhimurium. In Microbiology, 2008, vol. 154, p. 979-988. (2007: 3.110 - IF, Q1 - JCR, 1.739 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1350-0872.
Citácie:
1. [1.1] WU, R.R. - STEPHENSON, R. - GICHABA, A. - NOINAJ, N. The big BAM theory: An open and closed case?. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. ISSN 0005-

2736, JAN 1 2020, vol. 1862, no. 1, SI.183062, Registrované v: WOS

ADCA149 LEWIS, C. - ŠKOVIEROVÁ, Henrieta - ROWLEY, G. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - STEVENSON, A. - SPENCER, J. - FARN, J. - KORMANEC, Ján - ROBERTS, M. Salmonella enterica Serovar Typhimurium HtrA: regulation of expression and role of the chaperone and protease activities during infection. In Microbiology-SGM, 2009, vol. 155, p. 873-881. (2008: 2.841 - IF, Q2 - JCR, 1.743 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1350-0872.

Citácie:

1. [1.2] ARUNIMA, Aryashree - SWAIN, Sunil Kumar - RAY, Shilpa - PRUSTY, Birendra Kumar - SUAR, Mrutyunjay. RpoS-regulated SEN1538 gene promotes resistance to stress and influences Salmonella enterica serovar enteritidis virulence. In Virulence. ISSN 21505594, 2020-01-01, 11, 1, pp. 295-314., Registrované v: SCOPUS

2. [1.2] FOLORUNSO, O. S. - ADEOLA, S. - GIWA AJENIYA, A. O. Syzygium samarangense volatile oil inhibited bacteria growth and extracellular protease of salmonella typhimurium. In Pakistan Journal of Biological Sciences. ISSN 10288880, 2020-01-01, 23, 5, pp. 628-637., Registrované v: SCOPUS

ADCA150 LEWIS, R.J. - SCOTT, D.J. - BRANNIGAN, J.A. - LADDS, J.C. - CERVIN, M.A. - SPIEGELMAN, G.B. - HOGGETT, J.G. - BARÁK, Imrich - WILKINSON, A.J. Dimer formation and transcription activation in the sporulation response regulator Spo0A. In Journal of Molecular Biology, 2002, vol. 316, p. 235-245. ISSN 0022-2836.

Citácie:

1. [1.1] BURROUGHS, A.M. - ARAVIND, L. Identification of Uncharacterized Components of Prokaryotic Immune and Their Diverse Reformulations. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, DEC 2020, vol. 202, no. 24, e00365, Registrované v: WOS

2. [1.1] MAIER, B. Competence and Transformation in Bacillus subtilis. In CURRENT ISSUES IN MOLECULAR BIOLOGY. ISSN 1467-3037, 2020, vol. 37, p. 57-76., Registrované v: WOS

ADCA151 LEWIS, R.J. - BRANNIGAN, J.A. - MUCHOVÁ, Katarína - LEONARD, G. - BARÁK, Imrich - WILKINSON, A.J. Domain swapping in the sporulation response regulator Spo0A. In Journal of Molecular Biology, 2000, vol. 297, p. 757-770. ISSN 0022-2836.

Citácie:

1. [1.1] ZHOU, C.X. - ZHOU, H.Y. - FANG, H.L. - JI, Y.Z. - WANG, H.B. - LIU, F.F. - ZHANG, H.T. - LU, F.P. Spo0A can efficiently enhance the expression of the alkaline protease gene aprE in Bacillus licheniformis by specifically binding to its regulatory region. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, SEP 15 2020, vol. 159, p. 444-454., Registrované v: WOS

ADCA152 LEWIS, R.J. - BRANNIGAN, J.A. - MUCHOVÁ, Katarína - BARÁK, Imrich - WILKINSON, A.J. Phosphorylated aspartate in the structure of a response regulator protein. In Journal of Molecular Biology, 1999, vol. 294, p. 9-15. ISSN 0022-2836.

Citácie:

1. [1.1] ROZENBERG, A. - OPPERMANN, J. - WIETEK, J. - LAHORE, R.G.F. - SANDAA, R.A. - BRATBAK, G. - HEGEMANN, P. - BEJA, O. Lateral Gene Transfer of Anion-Conducting Channelrhodopsins between Green Algae and Giant Viruses. In CURRENT BIOLOGY. ISSN 0960-9822, DEC 21 2020, vol. 30, no. 24, p. 4910-+., Registrované v: WOS

2. [1.2] KENNEY, Linda J. - ANAND, Ganesh S. EnvZ/OmpR two-component signaling: An archetype system that can function noncanonically. In EcoSal Plus, 2020-01-01, 9, 1, pp. 1-30., Registrované v: SCOPUS

ADCA153 LIU, B. - YOSHINAGA, K. - WU, J.H. - CHEN, W.Y. - TERASHIMA, M. - GOEL, R. - PANGALLO, Domenico - YASUI, Hideki. Kinetic analysis of biological degradation for tetramethylammonium hydroxide (TMAH) in the anaerobic activated sludge system at ambient temperature. In Biochemical Engineering Journal, 2016, vol. 114, p. 42–49. (2015: 2.463 - IF, Q2 - JCR, 0.952 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1369-703X. Dostupné na: https://doi.org/10.1016/j.bej.2016.06.020

Citácie:

1. [1.1] AHMADI, E. - YOUSEFZADEH, S. - MOKAMMEL, A. - MIRI, M. - ANSARI, M. - ARFAEINIA, H. - BADI, M.Y. - GHAFFARI, H.R. - REZAEI, S. - MAHVI, A.H. Kinetic study and performance evaluation of an integrated two-phase fixed-film baffled bioreactor for bioenergy recovery from wastewater and bio-wasted sludge. In RENEWABLE & SUSTAINABLE ENERGY REVIEWS. ISSN 1364-0321, APR 2020, vol. 121, 109674, Registrované v: WOS

2. [1.1] RAJ, I. - GUPTA, A. - BANSIWAL, A. - VAIDYA, A.N. A bench scale study on the startup, performance and optimization of the biological degradation of obnoxious air containing trimethylamine. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. FEB 2020, vol. 8, no. 1, 103529, Registrované v: WOS

ADCA154 LIU, H. - QIAO, H. - KRAJČÍKOVÁ, Daniela - ZHANG, Z. - WANG, Aihua H. - BARÁK, Imrich -

TANG, J. Physical interaction and assembly of Bacillus subtilis spore coat proteins CotE and CotZ studied by atomic force microscopy. In Journal of Structural Biology, 2016, vol. 195, p. 245–251. (2015: 2.570 - IF, Q2 - JCR, 3.448 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2016.06.010

Citácie:

1. [1.1] CIESLUK, M. - DEPTULA, P. - PIKTEL, E. - FIEDORUK, K. - SUPREWICZ, L. - PAPROCKA, P. - KOT, P. - POGODA, K. - BUCKI, R. Physics Comes to the Aid of Medicine-Clinically-Relevant Microorganisms through the Eyes of Atomic Force Microscope. In PATHOGENS. NOV 2020, vol. 9, no. 11., Registrované v: WOS

2. [1.1] OBEID, S. - GUYOMARC';H, F. Atomic force microscopy of food assembly: Structural and mechanical insights at the nanoscale and potential opportunities from other fields. In FOOD BIOSCIENCE. ISSN 2212-4292, AUG 2020, vol. 36., Registrované v: WOS

ADCA155 LIU, T. - LU, B. - LEE, I. - ONDROVIČOVÁ, Gabriela - KUTEJOVÁ, Eva - SUZUKI, C.K. DNA and RNA binding by the mitochondrial Lon protease is regulated by nucleotide and protein substrate. In Journal of Biological Chemistry, 2004, vol. 279, p. 13902-13910. (2003: 6.482 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] ALI, A.T. - IDAGHDOUR, Y. - HODGKINSON, A. Analysis of mitochondrial m1A/G RNA modification reveals links to nuclear genetic variants and associated disease processes. In COMMUNICATIONS BIOLOGY. MAR 27 2020, vol. 3, no. 1., Registrované v: WOS

2. [1.1] BACH-PAGES, M. - HOMMA, F. - KOURELIS, J. - KASCHANI, F. - MOHAMMED, S. - KAISER, M. - VAN DER HOORN, R.A.L. - CASTELLO, A. - PRESTON, G.M. Discovering the RNA-Binding Proteome of Plant Leaves with an Improved RNA Interactome Capture Method. In BIOMOLECULES. APR 2020, vol. 10, no. 4., Registrované v: WOS

3. [1.1] BESSE, A. - BREZAVAR, D. - HANSON, J. - LARSON, A. - BONNEN, P.E. LONP1 de novo dominant mutation causes mitochondrial encephalopathy with loss of LONP1 chaperone activity and excessive LONP1 proteolytic activity. In MITOCHONDRION. ISSN 1567-7249, MAR 2020, vol. 51, p. 68-78., Registrované v: WOS

4. [1.1] CHENG, A.N. - CHENG, L.C. - KUO, C.L. - LO, Y.K. - CHOU, H.Y. - CHEN, C.H. - WANG, Y.H. - CHUANG, T.H. - CHENG, S.J. - LEE, A.Y.L. Mitochondrial Lon-induced mtDNA leakage contributes to PD-L1-mediated immunoescape via STING-IFN signaling and extracellular vesicles. In JOURNAL FOR IMMUNOTHERAPY OF CANCER. 2020, vol. 8, no. 2., Registrované v: WOS

5. [1.1] DONG, Z. - PU, L.J. - CUI, H.J. Mitoepigenetics and Its Emerging Roles in Cancer. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, JAN 23 2020, vol. 8., Registrované v: WOS

6. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS

7. [1.1] HUA, C.F. - WANG, T.T. - SHAO, X.L. - XIE, Y.P. - HUANG, H. - LIU, J.G. - ZHANG, W.T. - ZHANG, Y.C. - DING, Y.Q. - JIANG, L. - WANG, X. - DENG, X. Pseudomonas syringae dual-function protein Lon switches between virulence and metabolism by acting as both DNA-binding transcriptional regulator and protease in different environments. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, JUL 2020, vol. 22, no. 7, p. 2968-2988., Registrované v: WOS

8. [1.1] ROPELEWSKA, M. - GROSS, M.H. - KONIECZNY, I. DNA and Polyphosphate in Directed Proteolysis for DNA Replication Control. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, OCT 2 2020, vol. 11., Registrované v: WOS

9. [1.1] VOOS, W. - POLLECKER, K. The Mitochondrial Lon Protease: Novel Functions off the Beaten Track?. In BIOMOLECULES. FEB 2020, vol. 10, no. 2., Registrované v: WOS

10. [1.1] ZHAO, T. - GOEDHART, C. - PFEFFER, G. - GREENWAY, S.C. - LINES, M. - KHAN, A. - INNES, A.M. - SHUTT, T.E. Skeletal Phenotypes Due to Abnormalities in Mitochondrial Protein Homeostasis and Import. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2020, vol. 21, no. 21., Registrované v: WOS

ADCA156 LU, B. - YADAV, S. - SHAH, P.G. - LIU, T. - TIAN, B. - PUKSZTA, S. - VILLALUNA, N. - KUTEJOVÁ, Eva - NEWLON, C.S. - SANTOS, J.H. - SUZUKI, C.K. Role for the Human ATP-dependent Lon Protease in Mitochondrial DNA Maintenance. In Journal of Biological Chemistry, 2007, vol. 282, no. 24, p.17363-17374. (2006: 5.808 - IF, Q1 - JCR, 4.352 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] BESSE, A. - BREZAVAR, D. - HANSON, J. - LARSON, A. - BONNEN, P.E. LONP1 de novo dominant mutation causes mitochondrial encephalopathy with loss of LONP1 chaperone

activity and excessive LONP1 proteolytic activity. In MITOCHONDRION. ISSN 1567-7249, MAR 2020, vol. 51, p. 68-78., Registrované v: WOS
2. [1.1] CHENG, A.N. - CHENG, L.C. - KUO, C.L. - LO, Y.K. - CHOU, H.Y. - CHEN, C.H. - WANG, Y.H. - CHUANG, T.H. - CHENG, S.J. - LEE, A.Y.L. Mitochondrial Lon-induced mtDNA leakage contributes to PD-L1-mediated immunoescape via STING-IFN signaling and extracellular vesicles. In JOURNAL FOR IMMUNOTHERAPY OF CANCER. 2020, vol. 8, no. 2, e001372, Registrované v: WOS
3. [1.1] GOKE, A. - SCHROTT, S. - MIZRAK, A. - BELYY, V. - OSMAN, C. - WALTER, P. Mrx6 regulates mitochondrial DNA copy number in Saccharomyces cerevisiae by engaging the evolutionarily conserved Lon protease Pim1. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, MAR 19 2020, vol. 31, no. 7, SI, p. 527-545., Registrované v: WOS

ADCA157 LUDWIG, R. - SALAMON, J. - VARGA, J. - ZÁMOCKÝ, Marcel - PETERBAUER, C.K. - KULBE, K.D. - HALTRICH, D. Characterisation of cellobiose dehydrogenases from the white-rot fungi Trametes pubescens and Trametes villosa. In Applied Microbiology and Biotechnology, 2004, vol. 64, p. 213-222. ISSN 0175-7598.

Citácie:
1. [1.1] LUCKING, R. - TRUONG, B.V. - HUONG, D.T.T. - LE, N.H. - NGUYEN, Q.D. - NGUYEN, V.D. - VON RAAB-STRAUBE, E. - BOLLENDORFF, S. - GOVERS, K. - DI VINCENZO, V. Caveats of fungal barcoding: a case study in Trametes s.lat. (Basidiomycota: Poly-porales) in Vietnam reveals multiple issues with mislabelled reference sequences and calls for third-party annotations. In WILLDENOWIA. ISSN 0511-9618, DEC 2020, vol. 50, no. 3, p. 383-403., Registrované v: WOS
2. [1.2] SUNARDI - ISTIKOWATI, Wiwin Tyas - ISHIGURI, Futoshi - YOKOTA, Shinso. Fungal glycoside hydrolases of white-rot fungi for cellulosic biofuels production: A review. In Asian Journal of Chemistry. ISSN 09707077, 2020-08-01, 32, 8, pp. 1815-1823., Registrované v: SCOPUS

ADCA158 LUKÁČOVÁ, Magdaléna - BARÁK, Imrich - KAZÁR, Ján. Role of structural variations of polysaccharide antigens in the pathogenicity of Gram-negative bacteria. In Clinical Microbiology and Infection, 2008, vol. 14, p. 200–206. (2007: 2.980 - IF, Q2 - JCR, 1.436 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1198-743X.

Citácie:
1. [1.1] ARTYSZUK, D. - IZDEBSKI, R. - MACIEJEWSKA, A. - KASZOWSKA, M. - HERUD, A. - SZIJARTO, V. - GNIADKOWSKI, M. - LUKASIEWICZ, J. The Impact of Insertion Sequences on O-Serotype Phenotype and Its O-Locus-Based Prediction inKlebsiella pneumoniaeO2 and O1. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. SEP 2020, vol. 21, no. 18., Registrované v: WOS
2. [1.1] BUTSENKO, L. - PASICHNYK, L. - KOLOMIIETS, Y. - KALINICHENKO, A. The Effect of Pesticides on the Tomato Bacterial Speck Disease Pathogen Pseudomonas Syringae pv. Tomato. In APPLIED SCIENCES-BASEL. MAY 2020, vol. 10, no. 9., Registrované v: WOS
3. [1.1] MANOLOV, A. - KONANOV, D. - FEDOROV, D. - OSMOLOVSKY, I. - VERESHCHAGIN, R. - ILINA, E. Genome Complexity Browser: Visualization and quantification of genome variability. In PLOS COMPUTATIONAL BIOLOGY. ISSN 1553-734X, OCT 2020, vol. 16, no. 10., Registrované v: WOS
4. [1.1] PLATCHEK, M. - LU, Q. - TRAN, H. - XIE, W.S. Comparative Analysis of Multiple Immunoassays for Cytokine Profiling in Drug Discovery. In SLAS DISCOVERY. ISSN 2472-5552, DEC 2020, vol. 25, no. 10, SI, p. 1197-1213., Registrované v: WOS
5. [1.1] SRIVASTAVA, J. - SUNTHAR, P. - BALAJI, P.V. The glycan alphabet is not universal: a hypothesis. In MICROBIAL GENOMICS. ISSN 2057-5858, NOV 2020, vol. 6, no. 11., Registrované v: WOS

ADCA159 MACGREGOR, E.A. - JANEČEK, Štefan - SVENSSON, B. Relationship of sequence and structure to specificity in the alpha-amylase family of enzymes. In Biochimica et Biophysica Acta, 2001, vol. 1546, p. 1-20. ISSN 0006-3002.

Citácie:
1. [1.1] BASKARAN, N. - CHANG, Y.C. - CHANG, C.H. - HUNG, S.K. - KAO, C.T. - WEI, Y. Quantify the Protein-Protein Interaction Effects on Adsorption Related Lubricating Behaviors of alpha-Amylase on a Glass Surface. In POLYMERS. AUG 2020, vol. 12, no. 8, 1658., Registrované v: WOS
2. [1.1] BAYSAL, C. - HE, W.S. - DRAPAL, M. - VILLORBINA, G. - MEDINA, V. - CAPELL, T. - KHUSH, G.S. - ZHU, C.F. - FRASER, P.D. - CHRISTOU, P. Inactivation of rice starch branching enzyme IIb triggers broad and unexpected changes in metabolism by transcriptional reprogramming. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, OCT 20 2020, vol. 117, no. 42, p. 26503-26512., Registrované v: WOS

3. [1.1] CAO, J.W. - ZHANG, Y. - HAN, L. - ZHANG, S.B. - DUAN, X.C. - SUN, L.J. - WANG, M. Number of galloyl moieties and molecular flexibility are both important in alpha-amylase inhibition by galloyl-based polyphenols. In FOOD & FUNCTION. ISSN 2042-6496, MAY 1 2020, vol. 11, no. 5, p. 3838-3850., Registrované v: WOS
4. [1.1] DESIDERATO, A. - BARBEITOS, M. - GILBERT, C. - DA LAGE, J.L. Horizontal Transfer and Gene Loss Shaped the Evolution of Alpha-Amylases in Bilaterians. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, FEB 2020, vol. 10, no. 2, p. 709-719., Registrované v: WOS
5. [1.1] DONG, Z.X. - TANG, C.D. - LU, Y.F. - YAO, L.G. - KAN, Y.C. Microbial Oligo-alpha-1,6-Glucosidase: Current Developments and Future Perspectives. In STARCH-STARKE. JAN 2020, vol. 72, no. 1-2., Registrované v: WOS
6. [1.1] GAO, M. - WANG, Z.H. - ZHENG, H.H. - WANG, L. - XU, S.J. - LIU, X. - LI, W. - PAN, Y.X. - WANG, W.L. - CAI, X.M. - WU, R.A. - GAO, X.F. - LI, R.B. Two-Dimensional Tin Selenide (SnSe) Nanosheets Capable of Mimicking Key Dehydrogenases in Cellular Metabolism. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, FEB 24 2020, vol. 59, no. 9, p. 3618-3623., Registrované v: WOS
7. [1.1] GARCIA-GONZALEZ, M. - MINGUET-LOBATO, M. - PLOU, F.J. - FERNANDEZ-LOBATO, M. Molecular characterization and heterologous expression of two alpha-glucosidases from Metschnikowia spp, both producers of honey sugars. In MICROBIAL CELL FACTORIES. JUL 11 2020, vol. 19, no. 1., Registrované v: WOS
8. [1.1] HUANG, H. - LIN, Y. - WANG, G.Z. - LIN, J. Gene cloning, expression and biochemical characterization of a new multi-domain, halotolerant and SDS-resistant alkaline pullulanase from Alkalibacterium sp. SL3. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, SEP 2020, vol. 96, p. 1-10., Registrované v: WOS
9. [1.1] HUANG, P. - WU, S.W. - YANG, S.Q. - YAN, Q.J. - JIANG, Z.Q. Structural basis of carbohydrate binding in domain C of a type I pullulanase from Paenibacillus barengoltzii. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, MAY 1 2020, vol. 76, 5, p. 447-457., Registrované v: WOS
10. [1.1] IMAMURA, K. - MATSUURA, T. - NAKAGAWA, A. - KITAMURA, S. - KUSUNOKI, M. - TAKAHA, T. - UNNO, H. Structural analysis and reaction mechanism of the disproportionating enzyme (D-enzyme) from potato. In PROTEIN SCIENCE. ISSN 0961-8368, OCT 2020, vol. 29, no. 10, p. 2085-2100., Registrované v: WOS
11. [1.1] JIANG, C. - WANG, L. - SHAO, J.J. - JING, H.J. - YE, X. - JIANG, C.Y. - WANG, H.X. - MA, C.Y. Screening and identifying of alpha-amylase inhibitors from medicine food homology plants: Insights from computational analysis and experimental studies. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, DEC 2020, vol. 44, no. 12., Registrované v: WOS
12. [1.1] JUNG, D.H. - SEO, D.H. - KIM, Y.J. - CHUNG, W.H. - NAM, Y.D. - PARK, C.S. The presence of resistant starch-degrading amylases in Bifidobacterium adolescentis of the human gut. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, OCT 15 2020, vol. 161, p. 389-397., Registrované v: WOS
13. [1.1] LANDA-CANSIGNO, C. - HERNANDEZ-DOMINGUEZ, E.E. - MONRIBOT-VILLANUEVA, J.L. - LICEA-NAVARRO, A.F. - MATEO-CID, L.E. - SEGURA-CABRERA, A. - GUERRERO-ANALCO, J.A. Screening of Mexican tropical seaweeds as sources of alpha-amylase and alpha- glucosidase inhibitors. In ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS. ISSN 2211-9264, AUG 2020, vol. 49., Registrované v: WOS
14. [1.1] LI, X.X. - BAI, Y.X. - JI, H.Y. - WANG, Y. - JIN, Z.Y. Phenylalanine476 mutation of pullulanase from Bacillus subtilis str. 168 improves the starch substrate utilization by weakening the product beta-cyclodextrin inhibition. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 15 2020, vol. 155, p. 490-497., Registrované v: WOS
15. [1.1] LIU, J.L. - KONG, Y.C. - MIAO, J.Y. - MEI, X.Y. - WU, S.Y. - YAN, Y.C. - CAO, X.Y. Spectroscopy and molecular docking analysis reveal structural specificity of flavonoids in the inhibition of alpha-glucosidase activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUN 1 2020, vol. 152, p. 981-989., Registrované v: WOS
16. [1.1] MEHBOOB, S. - AHMAD, N. - MUNIR, S. - ALI, R. - YOUNAS, H. - RASHID, N. Gene cloning, expression enhancement in Escherichia coli and biochemical characterization of a highly thermostable amylomaltase from Pyrobaculum calidifontis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, A, p. 645-653., Registrované v: WOS
17. [1.1] MEHRVAND, J. - ROODBARI, N.H. - HASSANI, L. - JAFARIAN, V. - KHALIFEH, K. An evolution-based designing and characterization of mutants of cyclomaltodextrinase: Molecular modeling and spectroscopic studies. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, APR 5 2020, vol. 230., Registrované v: WOS

18. [1.1] MUKHERJEE, P.K. - KAR, A. - BANERJEE, S. - KATIYAR, C.K. Antidiabetic natural products. In MEDICINAL NATURAL PRODUCTS: A DISEASE-FOCUSED APPROACH. ISSN 0065-7743, 2020, vol. 55, p. 373-409., Registrované v: WOS
19. [1.1] NUNN, K.L. - CLAIR, G.C. - ADKINS, J.N. - ENGBRECHT, K. - FILLMORE, T. - FORNEY, L.J. Amylases in the Human Vagina. In MSPHERE. ISSN 2379-5042, NOV-DEC 2020, vol. 5, no. 6., Registrované v: WOS
20. [1.1] OGASAWARA, M. - YOSHII, K. - WADA, J. - YAMAMOTO, Y. - INOUYE, K. Identification of guanine, guanosine, and inosine for alpha-amylase inhibitors in the extracts of the earthworm < italic > Eisenia </italic >< italic > fetida </italic > and characterization of their inhibitory activities against porcine pancreatic alpha-amylase. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, DEC 2020, vol. 142., Registrované v: WOS
21. [1.1] PILAK, P. - SCHIEFNER, A. - SEIBOTH, J. - OEHRLEIN, J. - SKERRA, A. Engineering a Highly Active Sucrose Isomerase for Enhanced Product Specificity by Using a "Battleship" Strategy. In CHEMBIOCHEM. ISSN 1439-4227, AUG 3 2020, vol. 21, no. 15, p. 2161-2169., Registrované v: WOS
22. [1.1] SUN, L.J. - WANG, Y.Y. - MIAO, M. Inhibition of alpha-amylase by polyphenolic compounds: Substrate digestion, binding interactions and nutritional intervention. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, OCT 2020, vol. 104, p. 190-207., Registrované v: WOS
23. [1.1] SUZUKI, R. - SUZUKI, E. Structure and Function of Branching Enzymes in Eukaryotes. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, JAN 2020, vol. 32, no. 185, p. E21-E30., Registrované v: WOS
24. [1.1] YIN, L. - FU, S.S. - WU, R.J. - WEI, S.Y. - YI, J.Z. - ZHANG, L.M. - YANG, L.Q. A neutral polysaccharide from green tea: Structure, effect on alpha-amylase activity and hydrolysis property. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, JUL 15 2020, vol. 687., Registrované v: WOS
25. [1.1] YIN, L. - FU, S.S. - WU, R.J. - WEI, S.Y. - YI, J.Z. - ZHANG, L.M. - YANG, L.Q. Chain conformation of an acidic polysaccharide from green tea and related mechanism of alpha-amylase inhibitory activity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 1 2020, vol. 164, p. 1124-1132., Registrované v: WOS
26. [1.1] YOUSAF, N.Y. - MELIS, M. - MASTINU, M. - CONTINI, C. - CABRAS, T. - BARBAROSSA, I.T. - TEPPER, B.J. Time Course of Salivary Protein Responses to Cranberry-Derived Polyphenol Exposure as a Function of PROP Taster Status. In NUTRIENTS. SEP 2020, vol. 12, no. 9, 2878., Registrované v: WOS
27. [1.1] ZHANG, Z.Q. - JIN, T.C. - XIE, X.F. - BAN, X.F. - LI, C.M. - HONG, Y. - CHENG, L. - GU, Z.B. - LI, Z.F. Structure of maltotetraose-forming amylase from Pseudomonas saccharophila STB07 provides insights into its product specificity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 1 2020, vol. 154, p. 1303-1313., Registrované v: WOS
28. [1.1] ZHENG, Y.X. - TIAN, J.H. - YANG, W.H. - CHEN, S.G. - LIU, D.H. - FANG, H.T. - ZHANG, H.L. - YE, X.Q. Inhibition mechanism of ferulic acid against alpha-amylase and alpha-glucosidasee. In FOOD CHEMISTRY. ISSN 0308-8146, JUL 1 2020, vol. 317., Registrované v: WOS
29. [1.2] Hedín, N., Barchiesi, J., Gomez-Casati, D.F., Busi, M.V. Functional and structural characterization of a novel isoamylase from ostreococcus tauri and role of the n-terminal domain In Open Biotechnology Journal 14(2020), pp. 1-11, Registrované v: SCOPUS
30. [1.2] Nunn K.L.a, b,Clair G.C.c,Adkins J.N.c,Engbrecht K.c,Fillmore T.c,Forney L.J. Amylases in the Human Vagina In mSphere (2020) 5, Issue 6, Pages 1 - 13, Registrované v: SCOPUS

ADCA160 MACHOVIC, M. - SVENSSON, B. - MACGREGOR, E.A. - JANEČEK, Štefan. A new clan of CBM families based on bioinformatics of starch-binding domains from families CBM20 and CBM21. In FEBS Journal, 2005, vol. 272, p. 5497-5513. (2005 - Current Contents). ISSN 1742-464X.

Citácie:

1. [1.1] IQRAR, U. - JAVAID, H. - ASHRAF, N. - AHMAD, A. - LATIEF, N. - SHAHID, A.A. - AHMAD, W. - IJAZ, B. Structural and Functional Analysis of Pullulanase Type 1 (PulA) from Geobacillus thermopakistaniensis. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, AUG 2020, vol. 62, no. 8, p. 370-379., Registrované v: WOS

ADCA161 MACHOVIČ, Martin - JANEČEK, Štefan. Starch-binding domains in the post-genome era. In Cellular and Molecular Life Sciences : CMLS, 2006, vol. 63, no. 23, pp. 2710-2724. (2005: 4.582 - IF, Q1 - JCR, 2.691 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 1420-682X.

Citácie:

1. [1.1] ADEGBAJU, M.S. - MORENIKEJI, O.B. - BORREGO, E.J. - HUDSON, A.O. - THOMAS,

B.N. Differential Evolution of alpha-Glucan Water Dikinase (GWD) in Plants. In PLANTS-BASEL. SEP 2020, vol. 9, no. 9., Registrované v: WOS
2. [1.1] CHEAWCHANLERTFA, P. - SUTHEEWORAPONG, S. - JENJAROENPUN, P. - WONGSURAWAT, T. - NOOKAEW, I. - CHEEVADHANARAK, S. - KOSUGI, A. - PASON, P. - WAEONUKUL, R. - RATANAKHANOKCHAI, K. - TACHAAPAIKOON, C. Clostridium manihotivorum sp. nov., a novel mesophilic anaerobic bacterium that produces cassava pulp-degrading enzymes. In PEERJ. ISSN 2167-8359, NOV 16 2020, vol. 8., Registrované v: WOS

ADCA162 MACHOVIČ, Martin - JANEČEK, Štefan. The evolution of putative starch-binding domains. In FEBS Letters, 2006, vol. 580, no. 27, p. 6349-6358. (2005: 3.415 - IF, Q2 - JCR, 2.159 - SJR, Q1 - SJR). ISSN 1873-3468.

Citácie:
1. [1.1] CRIPWELL, R.A. - FAVARO, L. - VILJOEN-BLOOM, M. - VAN ZYL, W.H. Consolidated bioprocessing of raw starch to ethanol by Saccharomyces cerevisiae: Achievements and challenges. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, SEP-OCT 2020, vol. 42., Registrované v: WOS
2. [1.1] ZENG, J. - GUO, J.J. - TU, Y.K. - YUAN, L. Functional study of C-terminal domain of the thermoacidophilic raw starch-hydrolyzing alpha-amylase Gt-amy. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAR 2020, vol. 29, no. 3, p. 409-418., Registrované v: WOS

ADCA163 MAJTÁN, Juraj** - SOJKA, M. - PÁLENÍKOVÁ, Helena - BUČEKOVÁ, Marcela - MAJTAN, V. Vitamin C enhances the antibacterial activity of honey against planktonic and biofilm-embedded bacteria. In Molecules, 2020, vol. 25, no. 992. (2019: 3.267 - IF, Q2 - JCR, 0.698 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules25040992

Citácie:
1. [1.1] MCLOONE, P. - TABYS, D. - FYFE, L. Honey Combination Therapies for Skin and Wound Infections: A Systematic Review of the Literature. In CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY. ISSN 1178-7015, 2020, vol. 13, p. 875-888., Registrované v: WOS
2. [1.1] PLEEGING, C.C.F. - COENYE, T. - MOSSIALOS, D. - DE ROOSTER, H. - CHRYSOSTOMOU, D. - WAGENER, F.A.D.T.G. - CREMERS, N.A.J. Synergistic Antimicrobial Activity of Supplemented Medical-Grade Honey against Pseudomonas aeruginosa Biofilm Formation and Eradication. In ANTIBIOTICS-BASEL. ISSN 2079-6382, DEC 2020, vol. 9, no. 12., Registrované v: WOS

ADCA164 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: 1.323 - IF, Q4 - JCR, 0.509 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2006.07.010

Citácie:
1. [1.1] ABIDIN, N.A.Z. - KORMIN, F. - ABIDIN, N.A.Z. - ANUAR, N.A.F.M. - ABU BAKAR, M.F. The Potential of Insects as Alternative Sources of Chitin: An Overview on the Chemical Method of Extraction from Various Sources. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUL 2020, vol. 21, no. 14., Registrované v: WOS
2. [1.1] HAHN, T. - TAFI, E. - PAUL, A. - SALVIA, R. - FALABELLA, P. - ZIBEK, S. Current state of chitin purification and chitosan production from insects. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, NOV 2020, vol. 95, no. 11, p. 2775-2795., Registrované v: WOS
3. [1.1] HEMAPRIYA, J. - RAVI, A. - AISVERYA, S. - SUDHA, P.N. - VIJAYANAND, S. Chitosan and Its Biomedical Applications. In MARINE POLYSACCHARIDES: ADVANCES AND MULTIFACETED APPLICATIONS. 2019, p. 111-140., Registrované v: WOS
4. [1.1] HUET, G. - HADAD, C. - HUSSON, E. - LACLEF, S. - LAMBERTYN, V. - FARIAS, M.A. - JAMALI, A. - COURTY, M. - ALAYOUBI, R. - GOSSELIN, I. - SARAZIN, C. - VAN NHIEN, A.N. Straightforward extraction and selective bioconversion of high purity chitin from Bombyx eri larva: Toward an integrated insect biorefinery. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, JAN 15 2020, vol. 228., Registrované v: WOS
5. [1.1] IKL, S. - RAMANAUSKAITE, A. - BILICAN, B.K. - MULERCIKAS, P. - CAM, D. - ONSES, M.S. - TORUN, I. - KAZLAUSKAITE, S. - BAUBLYS, V. - AYDIN, O. - ZANG, L.S. - KAYA, M. Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, JUL 2020, vol. 112., Registrované v: WOS
6. [1.1] KABALAK, M. - ARACAGOK, D. - TORUN, M. Extraction, characterization and

comparison of chitins from large bodied four Coleoptera and Orthoptera species. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, FEB 15 2020, vol. 145, p. 402-409., Registrované v: WOS
7. [1.1] KULKARNI, S.A. - DHARINI, V. - SELVAM, S.P. - KUMAR, M.M. - SADIKU, E.R. - JAYARAMUDU, J. - GUPTA, U.N. Fabrication of Bionanocomposites from Chitin. In CHITIN-AND CHITOSAN-BASED BIOCOMPOSITES FOR FOOD PACKAGING APPLICATIONS. 2020, p. 11-21., Registrované v: WOS
8. [1.1] OLATUNJI, O. Chitin. In AQUATIC BIOPOLYMERS: UNDERSTANDING THEIR INDUSTRIAL SIGNIFICANCE AND ENVIRONMENTAL IMPLICATIONS. ISSN 2364-1878, 2020, p. 31-65., Registrované v: WOS
9. [1.1] PINERO, J.C. - SHIVERS, T. - BYERS, P.L. - JOHNSON, H.Y. Insect-based compost and vermicompost production, quality and performance. In RENEWABLE AGRICULTURE AND FOOD SYSTEMS. ISSN 1742-1705, FEB 2020, vol. 35, no. 1, p. 102-108., Registrované v: WOS
10. [1.1] PURKAYASTHA, D. - SARKAR, S. Physicochemical Structure Analysis of Chitin Extracted from Pupa Exuviae and Dead Imago of Wild Black Soldier Fly (Hermetia illucens). In JOURNAL OF POLYMERS AND THE ENVIRONMENT. ISSN 1566-2543, FEB 2020, vol. 28, no. 2, p. 445-457., Registrované v: WOS
11. [1.1] RAJALEKSHMY, G.P. - DEVI, L.L. - JOSEPH, J. - REKHA, M.R. An overview on the potential biomedical applications of polysaccharides. In FUNCTIONAL POLYSACCHARIDES FOR BIOMEDICAL APPLICATIONS. ISSN 2049-9485, 2019, p. 33-94., Registrované v: WOS
12. [1.1] SANANDIYA, N.D. - OTTENHEIM, C. - PHUA, J.W. - CALIGIANI, A. - DRITSAS, S. - FERNANDEZ, J.G. Circular manufacturing of chitinous bio-composites via bioconversion of urban refuse. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 13 2020, vol. 10, no. 1., Registrované v: WOS
13. [1.1] WOODS, M.J. - GOOSEN, N.J. - HOFFMAN, L.C. - PIETERSE, E. A simple and rapid protocol for measuring the chitin content of Hermetia illucens (L.) (Diptera: Stratiomyidae) larvae. In JOURNAL OF INSECTS AS FOOD AND FEED. 2020, vol. 6, no. 3, p. 285-290., Registrované v: WOS

ADCA165 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 Bioscenes, 2005, vol. 60, p. 921-926.

Citácie:
1. [1.1] AUNG, M. - OHTSUKA, H. - IZUMI, K. Short communication: Effect of yeast cell wall supplementation on peripheral leukocyte populations and mRNA expression of cytokines in lactating dairy cows. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, JUN 2020, vol. 103, no. 6, p. 5634-5640., Registrované v: WOS
2. [1.1] ELGHANDOUR, M.M.Y. - TAN, Z.L. - ABU HAFSA, S.H. - ADEGBEYE, M.J. - GREINER, R. - UGBOGU, E.A. - MONROY, J.C. - SALEM, A.Z.M. Saccharomyces cerevisiae as a probiotic feed additive to non and pseudo-ruminant feeding: a review. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, MAR 2020, vol. 128, no. 3, p. 658-674., Registrované v: WOS
3. [1.1] VILLAFANE, L. - FORRELLAD, M.A. - LOPEZ, M.G. - GARBACCIO, S. - GARRO, C. - ROCHA, R.V. - EIRIN, M.E. - SINGH, M. - TABOGA, O.A. - BIGI, F. Production of Mycobacterium bovis Antigens Included in Recombinant Occlusion Bodies of Baculovirus. In JOURNAL OF MOLECULAR MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1464-1801, JUL 2020, vol. 29, no. 1-6, p. 83-90., Registrované v: WOS

ADCA166 MAJTÁN, Juraj** - JASENAK, M. β-Glucans: multi-functional modulator of wound healing. In Molecules, 2018, vol. 23, art. no. 806. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules23040806

Citácie:
1. [1.1] AHN, J.H. - KIM, D.W. - PARK, C.W. - KIM, B. - SIM, H. - KIM, H.S. - LEE, T.K. - LEE, J.C. - YANG, G.E. - HER, Y. - PARK, J.H. - SIM, T.H. - LEE, H.S. - WON, M.H. Laminarin Attenuates Ultraviolet-Induced Skin Damage by Reducing Superoxide Anion Levels and Increasing Endogenous Antioxidants in the Dorsal Skin of Mice. In MARINE DRUGS. JUL 2020, vol. 18, no. 7., Registrované v: WOS
2. [1.1] FAZIO, A. - LA TORRE, C. - CAROLEO, M.C. - CAPUTO, P. - PLASTINA, P. - CIONE, E. Isolation and Purification of Glucans from an Italian Cultivar of Ziziphus jujuba Mill. and In Vitro Effect on Skin Repair. In MOLECULES. FEB 2 2020, vol. 25, no. 4., Registrované v: WOS
3. [1.1] GIEROBA, B. - SROKA-BARTNICKA, A. - KAZIMIERCZAK, P. - KALISZ, G. - LEWALSKA-GRACZYK, A. - VIVCHARENKO, V. - NOWAKOWSKI, R. - PIETA, I.S. - PRZEKORA, A. Spectroscopic studies on the temperature-dependent molecular arrangements in hybrid chitosan/1,3-beta-D-glucan polymeric matrices. In INTERNATIONAL JOURNAL OF

BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, SEP 15 2020, vol. 159, p. 911-921., Registrované v: WOS
4. [1.1] MAN, E. - HOSKINS, C. Towards advanced wound regeneration. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, JUN 15 2020, vol. 149., Registrované v: WOS
5. [1.1] OGUSHI, M. - IMAI, M. - YOSHIZAWA, M. - SUZUKI, K. - HARADA, N. Effects of Crystalline and Amorphous Forms of Paramylon from Euglena gracilis on the Development of Water-immersion Restraint Stress-induced Gastric Ulcer. In FOOD SCIENCE AND TECHNOLOGY RESEARCH. ISSN 1344-6606, JAN 2020, vol. 26, no. 1, p. 153-158., Registrované v: WOS
6. [1.1] REYES-BECERRIL, M. - ANGULO, M. - SANCHEZ, V. - GULUARTE, C. - ANGULO, C. beta-D-glucan from marine yeast Debaryomyces hansenii BCS004 enhanced intestinal health and glucan-expressed receptor genes in Pacific red snapper Lutjanus peru. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, JUN 2020, vol. 143., Registrované v: WOS
7. [1.1] SUNG, T.J. - WANG, Y.Y. - LIU, K.L. - CHOU, C.H. - LAI, P.S. - HSIEH, C.W. Pholiota nameko Polysaccharides Promotes Cell Proliferation and Migration and Reduces ROS Content in H2O2-Induced L929 Cells. In ANTIOXIDANTS. JAN 2020, vol. 9, no. 1., Registrované v: WOS
8. [1.1] THANGAVEL, P. - VILVANATHAN, S.P. - KUTTALAM, I. - LONCHIN, S. Topical administration of pullulan gel accelerates skin tissue regeneration by enhancing collagen synthesis and wound contraction in rats. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, APR 15 2020, vol. 149, p. 395-403., Registrované v: WOS
9. [1.1] ZAGORSKA-DZIOK, M. - SOBCZAK, M. Hydrogel-Based Active Substance Release Systems for Cosmetology and Dermatology Application: A Review. In PHARMACEUTICS. MAY 2020, vol. 12, no. 5., Registrované v: WOS
10. [1.1] ZENG, Y.W. - PU, X.Y. - DU, J. - YANG, X.M. - LI, X. - MANDAL, M.S.N. - YANG, T. - YANG, J.Z. Molecular Mechanism of Functional Ingredients in Barley to Combat Human Chronic Diseases. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, MAR 30 2020, vol. 2020., Registrované v: WOS
11. [1.2] VALLO, Michal. Shiitake dermatitis. Case report. In Cesko-Slovenska Dermatologie. ISSN 00090514, 2020-01-01, 95, 4, pp. 144-147., Registrované v: SCOPUS

ADCA167 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-α-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, Q1 - JCR, 1.117 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0340-3696. Dostupné na: https://doi.org/10.1007/s00403-013-1385-y

Citácie:

1. [1.1] KARAPETSAS, Athanasios - VOULGARIDOU, Georgia-Persephoni - ILIADI, Dimitra - TSOCHANTARIDIS, Ilias - MICHAIL, Panagiota - KYNIGOPOULOS, Spyridon - LAMBROPOULOU, Maria - STAVROPOULOU, Maria-Ioanna - STATHOPOULOU, Konstantina - KARABOURNIOTI, Sofia - ALIGIANNIS, Nektarios - GARDIKIS, Konstantinos - GALANIS, Alex - PANAYIOTIDIS, Mihalis - PAPPA, Aglaia. Honey Extracts Exhibit Cytoprotective Properties against UVB-Induced Photodamage in Human Experimental Skin Models. In ANTIOXIDANTS, 2020, vol. 9, no. 7, pp. Dostupné na: https://doi.org/10.3390/antiox9070566., Registrované v: WOS
2. [1.1] LATIFA, Haderbache - SAADA, Annou - AREZKI, Mohammedi. ANTIMICROBIAL POTENTIAL OF ZIZIPHUS AND EUPHORBIA HONEYS HARVESTED IN SEMI-ARID REGION OF ALGERIA AND THEIR POSSIBLE USE IN SOFT MEDICINE. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, 2020, vol. 9, no. 6, pp. 1114-1118. Dostupné na: https://doi.org/10.15414/jmbfs.2020.9.6.1114-1118., Registrované v: WOS
3. [1.1] MALIK, Nurfairuz Abdul - MOHAMED, Mahaneem - MUSTAFA, Mohd Zulkifli - ZAINUDDIN, Azalina. In vitro modulation of extracellular matrix genes by stingless bee honey in cellular aging of human dermal fibroblast cells. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2020, vol. 44, no. 1, pp. Dostupné na: https://doi.org/10.1111/jfbc.13098., Registrované v: WOS

ADCA168 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, 1.327 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0906-6705. Dostupné na: https://doi.org/10.1111/j.1600-0625.2009.00994.x

Citácie:

1. [1.1] CHANTAWANNAKUL, Panuwan. From entomophagy to entomotherapy. In FRONTIERS IN BIOSCIENCE-LANDMARK. ISSN 2768-6701, 2020, vol. 25, no., pp. 179-200. Dostupné na: https://doi.org/10.2741/4802., Registrované v: WOS
2. [1.1] MCLOONE, Pauline - TABYS, Dina - FYFE, Lorna. Honey Combination Therapies for Skin and Wound Infections: A Systematic Review of the Literature. In CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY. ISSN 1178-7015, 2020, vol. 13, no., pp. 875-888. Dostupné na: https://doi.org/10.2147/CCID.S282143., Registrované v: WOS
3. [1.1] MUNOZ, Mariela - VASQUEZ, Belgica - DEL SOL, Mariano. Molecular Mechanisms in the Process of Re-epithelization in Wound Healing and the Action of Honey in Keratinocytes. In INTERNATIONAL JOURNAL OF MORPHOLOGY. ISSN 0717-9502, 2020, vol. 38, no. 6, pp. 1700-1706., Registrované v: WOS

ADCA169 MAJTÁN, Tomáš - SINGH, L.R. - WANG, L.N. - KRUGER, W.D. - KRAUS, J.P. Active Cystathionine beta-Synthase Can Be Expressed in Heme-free Systems in the Presence of Metal-substituted Porphyrins or a Chemical Chaperone. In Journal of Biological Chemistry, 2008, vol. 283, p. 34588-34595. (2007: 5.581 - IF, Q1 - JCR, 4.338 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0021-9258.

Citácie:
1. [1.1] AL-SADEQ, D.W. - NASRALLAH, G.K. The Spectrum of Mutations of Homocystinuria in the MENA Region. In GENES. MAR 2020, vol. 11, no. 3., Registrované v: WOS
2. [1.1] CONTER, C. - FRUNCILLO, S. - FERNANDEZ-RODRIGUEZ, C. - MARTINEZ-CRUZ, L.A. - DOMINICI, P. - ASTEGNO, A. Cystathionine beta-synthase is involved in cysteine biosynthesis and-H2S generation in Toxoplasma gondii. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 4 2020, vol. 10, no. 1, 14657., Registrované v: WOS

ADCA170 MAJTÁN, Tomáš - FRERMAN, F.E. - KRAUS, J.P. Effect of cobalt on Escherichia coli metabolism and metalloporphyrin formation. In Biometals, 2011, vol. 24, p. 335-347. (2010: 2.320 - IF, Q3 - JCR, 1.075 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0966-0844. Dostupné na: https://doi.org/10.1007/s10534-010-9400-7

Citácie:
1. [1.1] DORNAU, A. - ROBSON, J.F. - THOMAS, G.H. - MCQUEEN-MASON, S.J. Robust microorganisms for biofuel and chemical production from municipal solid waste. In MICROBIAL CELL FACTORIES. MAR 16 2020, vol. 19, no. 1., Registrované v: WOS
2. [1.1] DULAY, H. - TABARES, M. - KASHEFI, K. - REGUERA, G. Cobalt Resistance via Detoxification and Mineralization in the Iron-Reducing Bacterium Geobacter sulfurreducens. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 26 2020, vol. 11., Registrované v: WOS
3. [1.1] PI, H.L. - WENDEL, B.M. - HELMANN, J.D. Dysregulation of Magnesium Transport Protects Bacillus subtilis against Manganese and Cobalt Intoxication. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, APR 2020, vol. 202, no. 7., Registrované v: WOS

ADCA171 MAJTÁN, Tomáš - MAJTÁNOVÁ, Ľ. - TIMKO, Jozef - MAJTAN, V. Oligonucleotide microarray for molecular characterization and genotyping of Salmonella spp. strains. In Journal of Antimicrobial Chemotherapy, 2007, vol. 60, no. 5, pp. 937-946. (2006: 3.891 - IF, Q1 - JCR, 1.771 - SJR, Q1 - SJR). ISSN 0305-7453.

Citácie:
1. [1.2] CHEN, Jinyao - KARANTH, Shraddha - PRADHAN, Abani K. Quantitative microbial risk assessment for Salmonella: Inclusion of whole genome sequencing and genomic epidemiological studies, and advances in the bioinformatics pipeline. In Journal of Agriculture and Food Research, 2020-12-01, 2, pp., Registrované v: SCOPUS

ADCA172 MAJTÁN, Tomáš - KRAUS, J.P. Folding and activity of mutant cystathionine â-synthase depends on the position and nature of the purification tag: characterization of the R266K CBS mutant. In Protein Expression and Purification, 2012, vol. 82, p. 317-324. (2011: 1.587 - IF, Q3 - JCR, 0.798 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1046-5928. Dostupné na: https://doi.org/10.1016/j.pep.2012.01.019

Citácie:
1. [1.1] GRIESCHAT, M. - GUZMAN, R.E. - LANGSCHWAGER, K. - FAHLKE, C. - ALEKOV, A.K. Metabolic energy sensing by mammalian CLC anion/proton exchangers. In EMBO REPORTS. ISSN 1469-221X, JUN 4 2020, vol. 21, no. 6, e47872., Registrované v: WOS
2. [1.1] REN, W.J. - FU, J. - YIN, H.Y. - XU, N.G. - TANG, C.Z. - LIU, L.Z. - YU, S.G. - TANG, Y. CBS-Induced H2S Generation in Hippocampus Inhibits EA-Induced Analgesia. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, APR 30 2020, vol. 2020, 5917910., Registrované v: WOS

ADCA173 MAJTÁNOVÁ, Nora - CERNAK, M. - MAJTÁN, Juraj. Honey: a natural remedy for eye diseases. In Forschende Komplementärmedizin, 2016, vol. 23, no. 6, p. 364-369. (2015: 0.551 - IF, Q4 - JCR, 0.342 - SJR, Q2 - SJR). ISSN 1021-7096. Dostupné na: https://doi.org/10.1159/000452116

Citácie:
1. [1.1] ALFARISI, H.A.S.H. - IBRAHIM, M. - MOHAMED, Z.B.H. - HAMDAN, A.H. - MOHAMAD, C.A.C. Trihoney Suppresses Soluble Adhesion Molecules (ICAM-1 and VCAM-1) in Hypercholesterolemic Atherosclerotic Rabbits: A Comparative Study with Atorvastatin. In SAINS MALAYSIANA. ISSN 0126-6039, JUN 2020, vol. 49, no. 6, p. 1313-1322., Registrované v: WOS
2. [1.2] HAMAD ALFARISI, Hamad Abdulsalam - IBRAHIM, Muhammad Bin - AZAHARI, Nuraniza - HAMAD MOHAMED, Zenab B. - HAMDAN, Asmah Hanim Bt - MOHAMAD, Che Anuar Che. Anti-inflammatory effects of trihoney in hypercholesterolemic atherosclerotic rabbits: A comparative study with atorvastatin. In Malaysian Journal of Medicine and Health Sciences. ISSN 16758544, 2020-05-01, 16, 2, pp. 230-236., Registrované v: SCOPUS

ADCA174 MAJZLOVÁ, Katarína - PUKAJOVÁ, Z. - JANEČEK, Štefan. Tracing the evolution of the α-amylase subfamily GH13_36 covering the amylolytic enzymes intermediate between oligo-1,6-glucosidases and neopullulanases. In Carbohydrate Research, 2013, vol. 367, p. 48–57. (2012: 2.044 - IF, Q2 - JCR, 0.772 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2012.11.022

Citácie:
1. [1.1] DONG, Z.X. - TANG, C.D. - LU, Y.F. - YAO, L.G. - KAN, Y.C. Microbial Oligo-alpha-1,6-Glucosidase: Current Developments and Future Perspectives. In STARCH-STARKE. JAN 2020, vol. 72, no. 1-2., Registrované v: WOS
2. [1.1] MALKA, O. - EASSON, M.L.A.E. - PAETZ, C. - GOTZ, M. - REICHELT, M. - STEIN, B. - LUCK, K. - STANISIC, A. - JURAVEL, K. - SANTOS-GARCIA, D. - MONDACA, L.L. - SPRINGATE, S. - COLVIN, J. - WINTER, S. - GERSHENZON, J. - MORIN, S. - VASSAO, D.G. Glucosylation prevents plant defense activation in phloem-feeding insects. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, DEC 2020, vol. 16, no. 12, p. 1420-+., Registrované v: WOS
3. [1.1] SHOFIYAH, S.S. - YULIANI, D. - WIDYA, N. - SARIAN, F.D. - PUSPASARI, F. - RADJASA, O.K. - IHSANAWATI - NATALIA, D. Isolation, expression, and characterization of raw starch degrading alpha-amylase from a marine lake Bacillus megaterium NL3. In HELIYON. DEC 2020, vol. 6, no. 12., Registrované v: WOS

ADCA175 MALCOVÁ, I. - FARKAŠOVSKÝ, Marian - SENOHRABKOVA, L. - VASICOVÁ, P. - HASEK, J. New integrative modules for multicolor-protein labeling and live-cell imaging in Saccharomyces cerevisiae. In FEMS Yeast Research, 2016, vol. 16, art. no. fow027. (2015: 2.479 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1567-1356. Dostupné na: https://doi.org/10.1093/femsyr/fow027

Citácie:
1. [1.1] SCHUTTER, M. - GIAVALISCO, P. - BRODESSER, S. - GRAEF, M. Local Fatty Acid Channeling into Phospholipid Synthesis Drives Phagophore Expansion during Autophagy. In CELL. ISSN 0092-8674, JAN 9 2020, vol. 180, no. 1, p. 135-+., Registrované v: WOS

ADCA176 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. Dostupné na: https://doi.org/10.1016/j.carres.2004.06.023

Citácie:
1. [1.1] GHOLIZADEH, A. Pectin methylesterase activity of plant DUF538 protein superfamily. In PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS. ISSN 0971-5894, APR 2020, vol. 26, no. 4, p. 829-839., Registrované v: WOS
2. [1.1] REEM, N.T. - CHAMBERS, L. - ZHANG, N. - ABDULLAH, S.F. - CHEN, Y.T. - FENG, G.H. - GAO, S. - SOTO-BURGOS, J. - POGORELKO, G. - BASSHAM, D.C. - ANDERSON, C.T. - WALLEY, J.W. - ZABOTINA, O.A. Post-Synthetic Reduction of Pectin Methylesterification Causes Morphological Abnormalities and Alterations to Stress Response in Arabidopsis thaliana. In PLANTS-BASEL. NOV 2020, vol. 9, no. 11., Registrované v: WOS
3. [1.1] WEN, B. - ZHANG, F. - WU, X.Z. - LI, H. Characterization of the Tomato (Solanum lycopersicum) Pectin Methylesterases: Evolution, Activity of Isoforms and Expression During Fruit Ripening. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, MAR 3 2020, vol. 11., Registrované v: WOS

ADCA177 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] HUANG, W.J. - CHEN, M.Y. - ZHAO, T.T. - HAN, F. - ZHANG, Q. - LIU, X.L. - JIANG, C.Y. - ZHONG, C.H. Genome-Wide Identification and Expression Analysis of Polygalacturonase Gene Family in Kiwifruit (Actinidia chinensis) during Fruit Softening. In PLANTS-BASEL. MAR 2020, vol. 9, no. 3, 327., Registrované v: WOS

2. [1.1] LI, J.J. - SU, L.T. - LV, A.M. - LI, Y.B. - ZHOU, P. - AN, Y. MsPG1 alleviated aluminum-induced inhibition of root growth by decreasing aluminum accumulation and increasing porosity and extensibility of cell walls in alfalfa (Medicago sativa). In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, JUL 2020, vol. 175., Registrované v: WOS
3. [1.1] LIAO, J.G. - CHEN, Z.Y. - WEI, X.M. - TAO, K.L. - ZHANG, J.W. - QIN, X.J. - PAN, Z.H. - MA, W.G. - PAN, L. - YANG, S. - WANG, M.Q. - OU, X.K. - CHEN, S.Y. Identification of pollen and pistil polygalacturonases inNicotiana tabacumand their function in interspecific stigma compatibility. In PLANT REPRODUCTION. ISSN 2194-7953, DEC 2020, vol. 33, no. 3-4, p. 173-190., Registrované v: WOS
4. [1.1] LV, J.H. - LIU, Z.B. - YANG, B.Z. - DENG, M.H. - WANG, J. - LIU, Y.H. - ZHANG, Z.Q. - MA, Y.Q. - CHEN, W.C. - OU, L.J. - ZOU, X.X. Systematic identification and characterization of long non-coding RNAs involved in cytoplasmic male sterility in pepper (Capsicum annuum L.). In PLANT GROWTH REGULATION. ISSN 0167-6903, JUN 2020, vol. 91, no. 2, p. 277-288., Registrované v: WOS
5. [1.1] PANIAGUA, C. - RIC-VARAS, P. - GARCIA-GAGO, J.A. - LOPEZ-CASADO, G. - BLANCO-PORTALES, R. - MUNOZ-BLANCO, J. - SCHUCKEL, J. - KNOX, J.P. - MATAS, A.J. - QUESADA, M.A. - POSE, S. - MERCADO, J.A. Elucidating the role of polygalacturonase genes in strawberry fruit softening. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, DEC 31 2020, vol. 71, no. 22, p. 7103-7117., Registrované v: WOS

ADCA178 MARTINEZ, L.F. - BISHOP, A.C - PARKES, L. - DEL SOL, R. - SALERNO, P. - ŠEVČÍKOVÁ, Beatrica - MAZURÁKOVÁ, V. - KORMANEC, Ján - DYSON, P. Osmoregulation in Streptomyces coelicolor: modulation of SigB activity by OsaC. In Molecular Microbiology, 2009, vol. 71, p. 1250-1262. (2008: 5.213 - IF, Q1 - JCR, 3.974 - SJR, Q1 - SJR). ISSN 0950-382X.

Citácie:

1. [1.1] PROTASOV, E.S. - AXENOV-GRIBANOV, D.V. - SHATILINA, Z.M. - TIMOFEYEV, M.A. - LANE, A.L. Freshwater Actinobacteria from sediments of the deep and ancient Lake Baikal (Russia) and their genetic potential as producers of secondary metabolites. In AQUATIC MICROBIAL ECOLOGY. ISSN 0948-3055, 2020, vol. 84, p. 1-14., Registrované v: WOS

ADCA179 MARTINOTTI, S. - BUČEKOVÁ, Marcela - MAJTÁN, Juraj - RANZATO, E. Honey: an effective regenerative medicine product in wound management. In Current Medicinal Chemistry, 2019, vol. 26, p. 5230-5240. (2018: 3.894 - IF, Q1 - JCR, 0.918 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0929-8673. Dostupné na: https://doi.org/10.2174/0929867325666180510141824

Citácie:

1. [1.1] HAZIRAH, H. - ANUM, M.Y.Y. - NORWAHIDAH, A.K. Antioxidant Properties of Stingless Bee Honey and Its Effect on the Viability of Lymphoblastoid Cell Line. In MEDICINE AND HEALTH-KUALA LUMPUR. ISSN 1823-2140, JUN 2019, vol. 14, no. 1, p. 91-105., Registrované v: WOS
2. [1.1] NACHIAPPAN, S. - AMANUEL, L. - AGAZIE, T. - BIHONEGN, S. Development and characterization of silk films for burn wound healing. In RESEARCH JOURNAL OF TEXTILE AND APPAREL. ISSN 1560-6074, APR 10 2020, vol. 24, no. 2, p. 131-146., Registrované v: WOS
3. [1.1] SHAYAN, A. - SOURINEJAD, H. - BARZEGAR, F. - AHMADINIA, H. - MASOUMI, Z. - MORADKHANI, S. - REFAEI, M. The Effect of Olive Oil and Honey Combination on Episiotomy Wound Healing and Pain Relief: A Randomized Clinical Trial. In CURRENT WOMENS HEALTH REVIEWS. ISSN 1573-4048, 2020, vol. 16, no. 2, p. 145-151., Registrované v: WOS

ADCA180 MARUNA, M. - ŠTURDÍKOVÁ, Marta - LIPTAJ, Tibor - GODÁNY, Andrej - MUCKOVÁ, M. - CERTIK, M. - PRÓNAYOVÁ, Naďa - PROKSA, B. Isolation, structure elucidation and biological activity of angucycline antibiotics from an epiphytic yew streptomycete. In Journal of Basic Microbiology, 2010, vol. 50, p. 135-142. (2009: 1.319 - IF, Q4 - JCR, 0.474 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0233-111X. Dostupné na: https://doi.org/10.1002/jobm.200900227

Citácie:

1. [1.1] OTTO-HANSON, L.K. - KINKEL, L.L. Densities and inhibitory phenotypes among indigenous Streptomyces spp. vary across native and agricultural habitats. In MICROBIAL ECOLOGY. ISSN 0095-3628, APR 2020, vol. 79, no. 3, p. 694-705., Registrované v: WOS

ADCA181 MEDEMA, M.H. - KOTTMANN, R. - YILMAZ, P. - CUMMINGS, M. - BIGGINS, J.B. - KORMANEC, Ján. Minimum information about a biosynthetic gene cluster. In Nature Chemical Biology, 2015, vol. 11, p. 625-631. (2014: 12.996 - IF, Q1 - JCR, 7.184 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1552-4450. Dostupné na: https://doi.org/10.1038/nchembio.1890

Citácie:

1. [1.1] ALBERTI, F. - KALEEM, S. - WEAVER, J.A. Recent developments of tools for genome and metabolome studies in basidiomycete fungi and their application to natural product research. In

BIOLOGY OPEN. ISSN 2046-6390, DEC 2020, vol. 9, no. 12., Registrované v: WOS
2. [1.1] ARYA, S.S. - ROOKES, J.E. - CAHILL, D.M. - LENKA, S.K. Next-generation metabolic engineering approaches towards development of plant cell suspension cultures as specialized metabolite producing biofactories. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, DEC 2020, vol. 45., Registrované v: WOS
3. [1.1] BELKNAP, K.C. - PARK, C.J. - BARTH, B.M. - ANDAM, C.P. Genome mining of biosynthetic and chemotherapeutic gene clusters in Streptomyces bacteria. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 6 2020, vol. 10, no. 1., Registrované v: WOS
4. [1.1] BHATTARAI, K. - BASTOLA, R. - BARAL, B. Antibiotic drug discovery: Challenges and perspectives in the light of emerging antibiotic resistance. In ADVANCES IN GENETICS, VOL 105. ISSN 0065-2660, 2020, vol. 105, p. 229-292., Registrované v: WOS
5. [1.1] BOUTIN, S. - DALPKE, A.H. The Microbiome: A Reservoir to Discover New Antimicrobials Agents. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2020, vol. 20, no. 14, p. 1291-1299., Registrované v: WOS
6. [1.1] CHEN, R. - WONG, H.L. - KINDLER, G.S. - MACLEOD, F.I. - BENAUD, N. - FERRARI, B.C. - BURNS, B.P. Discovery of an Abundance of Biosynthetic Gene Clusters in Shark Bay Microbial Mats. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, AUG 21 2020, vol. 11., Registrované v: WOS
7. [1.1] CHEVRETTE, M.G. - GUTIERREZ-GARCIA, K. - SELEM-MOJICA, N. - AGUILAR-MARTINEZ, C. - YANEZ-OLVERA, A. - RAMOS-ABOITES, H.E. - HOSKISSON, P.A. - BARONA-GOMEZ, F. Evolutionary dynamics of natural product biosynthesis in bacteria. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, APR 1 2020, vol. 37, no. 4, p. 566-599., Registrované v: WOS
8. [1.1] CHU, L.X. - HUANG, J.P. - MUHAMMAD, M. - DENG, Z.X. - GAO, J.T. Genome mining as a biotechnological tool for the discovery of novel marine natural products. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, JUL 3 2020, vol. 40, no. 5, p. 571-589., Registrované v: WOS
9. [1.1] DENG, H.X. - BAI, Y.J. - FAN, T.P. - ZHENG, X.H. - CAI, Y.J. Advanced strategy for metabolite exploration in filamentous fungi. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, FEB 17 2020, vol. 40, no. 2, p. 180-198., Registrované v: WOS
10. [1.1] DING, Y.Z. - WECKWERTH, P.R. - PORETSKY, E. - MURPHY, K.M. - SIMS, J. - SALDIVAR, E. - CHRISTENSEN, S.A. - CHAR, S.N. - YANG, B. - TONG, A.D. - SHEN, Z.X. - KREMLING, K.A. - BUCKLER, E.S. - KONO, T. - NELSON, D.R. - BOHLMANN, J. - BAKKER, M.G. - VAUGHAN, M.M. - KHALIL, A.S. - BETSIASHVILI, M. - DRESSANO, K. - KOLLNER, T.G. - BRIGGS, S.P. - ZERBE, P. - SCHMELZ, E.A. - HUFFAKER, A. Genetic elucidation of interconnected antibiotic pathways mediating maize innate immunity. In NATURE PLANTS. ISSN 2055-026X, NOV 2020, vol. 6, no. 11, p. 1375-1388., Registrované v: WOS
11. [1.1] EL-SAYED, A.S.A. - EL-SAYED, M.T. - RADY, A.M. - ZEIN, N. - ENAN, G. - SHINDIA, A. - EL-HEFNAWY, S. - SITOHY, M. - SITOHY, B. Exploiting the Biosynthetic Potency of Taxol from Fungal Endophytes of Conifers Plants; Genome Mining and Metabolic Manipulation. In MOLECULES. JUL 2020, vol. 25, no. 13., Registrované v: WOS
12. [1.1] GANLEY, J.G. - PANDEY, A. - SYLVESTER, K. - LU, K.Y. - TORO-MORENO, M. - RUTSCHLIN, S. - BRADFORD, J.M. - CHAMPION, C.J. - BOTTCHER, T. - XU, J.N. - DERBYSHIRE, E.R. A Systematic Analysis of Mosquito-Microbiome Biosynthetic Gene Clusters Reveals Antimalarial Siderophores that Reduce Mosquito Reproduction Capacity. In CELL CHEMICAL BIOLOGY. ISSN 2451-9448, JUL 16 2020, vol. 27, no. 7, p. 817-+., Registrované v: WOS
13. [1.1] GAVRIILIDOU, A. - GUTLEBEN, J. - VERSLUIS, D. - FORGIARINI, F. - VAN PASSEL, M.W.J. - INGHAM, C.J. - SMIDT, H. - SIPKEMA, D. Comparative genomic analysis ofFlavobacteriaceae: insights into carbohydrate metabolism, gliding motility and secondary metabolite biosynthesis. In BMC GENOMICS. ISSN 1471-2164, AUG 20 2020, vol. 21, no. 1., Registrované v: WOS
14. [1.1] GILCHRIST, C.L.M. - LACEY, H.J. - VUONG, D. - PITT, J.I. - LANGE, L. - LACEY, E. - PILGAARD, B. - CHOOI, Y.H. - PIGGOTT, A.M. Comprehensive chemotaxonomic and genomic profiling of a biosynthetically talented Australian fungus, Aspergillus burnettii sp. nov.. In FUNGAL GENETICS AND BIOLOGY. ISSN 1087-1845, OCT 2020, vol. 143., Registrované v: WOS
15. [1.1] GONZALEZ-MONTIEL, G.A. - KAWEESA, E.N. - FEAU, N. - HAMELIN, R.C. - STONE, J.K. - LOESGEN, S. Chemical, Bioactivity, and Biosynthetic Screening of Epiphytic Fungus Zasmidium pseudotsugae. In MOLECULES. MAY 2020, vol. 25, no. 10., Registrované v: WOS
16. [1.1] ISHAQUE, N.M. - BURGSDORF, I. - MALIT, J.J.L. - SAHA, S. - TETA, R. - EWE, D. - KANNABIRAN, K. - HROUZEK, P. - STEINDLER, L. - COSTANTINO, V. - SAURAV, K. Isolation, Genomic and Metabolomic Characterization of Streptomyces tendae VITAKN with

Quorum Sensing Inhibitory Activity from Southern India. In MICROORGANISMS. JAN 2020, vol. 8, no. 1., Registrované v: WOS
17. [1.1] KHATRI, Y. - HOHLMAN, R.M. - MENDOZA, J. - LI, S.S. - LOWELL, A.N. - ASAHARA, H. - SHERMAN, D.H. Multicomponent Microscale Biosynthesis of Unnatural Cyanobacterial Indole Alkaloids. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, JUN 19 2020, vol. 9, no. 6, p. 1349-1360., Registrované v: WOS
18. [1.1] KJAERBOLLING, I. - VESTH, T. - FRISVAD, J.C. - NYBO, J.L. - THEOBALD, S. - KILDGAARD, S. - PETERSEN, T.I. - KUO, A. - SATO, A. - LYHNE, E.K. - KOGLE, M.E. - WIEBENGA, A. - KUN, R.S. - LUBBERS, R.J.M. - MAKELA, M.R. - BARRY, K. - CHOVATIA, M. - CLUM, A. - DAUM, C. - HARIDAS, S. - HE, G.F. - LABUTTI, K. - LIPZEN, A. - MONDO, S. - PANGILINAN, J. - RILEY, R. - SALAMOV, A. - SIMMONS, B.A. - MAGNUSON, J.K. - HENRISSAT, B. - MORTENSEN, U.H. - LARSEN, T.O. - DE VRIES, R.P. - GRIGORIEV, I.V. - MACHIDA, M. - BAKER, S.E. - ANDERSEN, M.R. A comparative genomics study of 23 Aspergillus species from section Flavi. In NATURE COMMUNICATIONS. ISSN 2041-1723, FEB 27 2020, vol. 11, no. 1., Registrované v: WOS
19. [1.1] MALIK, A. - KIM, Y.R. - JANG, I.H. - HWANG, S. - OH, D.C. - KIM, S.B. Genome-based analysis for the bioactive potential of Streptomyces yeochonensis CN732, an acidophilic filamentous soil actinobacterium. In BMC GENOMICS. ISSN 1471-2164, FEB 3 2020, vol. 21, no. 1., Registrované v: WOS
20. [1.1] MARTIN-RIVILLA, H. - GUTIERREZ-MANERO, F.J. - GRADILLAS, A. - NAVARRO, M.O.P. - ANDRADE, G. - LUCAS, J.A. Identifying the Compounds of the Metabolic Elicitors of Pseudomonas fluorescens N 21.4 Responsible for Their Ability to Induce Plant Resistance. In PLANTS-BASEL. AUG 2020, vol. 9, no. 8., Registrované v: WOS
21. [1.1] MATROODI, S. - SIITONEN, V. - BARAL, B. - YAMADA, K. - AKHGARI, A. - METSA-KETELA, M. Genotyping-Guided Discovery of Persiamycin A From Sponge-Associated Halophilic Streptomonospora sp. PA3. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, JUN 9 2020, vol. 11., Registrované v: WOS
22. [1.1] MATSUDA, K. - ZHAI, R. - MORI, T. - KOBAYASHI, M. - SANO, A. - ABE, I. - WAKIMOTO, T. Heterochiral coupling in non-ribosomal peptide macrolactamization. In NATURE CATALYSIS. ISSN 2520-1158, JUN 2020, vol. 3, no. 6, p. 507-515., Registrované v: WOS
23. [1.1] MEUNIER, L. - TOCQUIN, P. - CORNET, L. - SIRJACOBS, D. - LECLERE, V. - PUPIN, M. - JACQUES, P. - BAURAIN, D. Palantir: a springboard for the analysis of secondary metabolite gene clusters in large-scale genome mining projects. In BIOINFORMATICS. ISSN 1367-4803, AUG 1 2020, vol. 36, no. 15, p. 4345-4347., Registrované v: WOS
24. [1.1] MODOLON, F. - BARNO, A.R. - VILLELA, H.D.M. - PEIXOTO, R.S. Ecological and biotechnological importance of secondary metabolites produced by coral-associated bacteria. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, DEC 2020, vol. 129, no. 6, p. 1441-1457., Registrované v: WOS
25. [1.1] NAVARRO-MUNOZ, J.C. - COLLEMARE, J.M. Evolutionary Histories of Type III Polyketide Synthases in Fungi. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, JAN 21 2020, vol. 10., Registrované v: WOS
26. [1.1] NICAULT, M. - TIDJANI, A.R. - GAUTHIER, A. - DUMARCAY, S. - GELHAYE, E. - BONTEMPS, C. - LEBLOND, P. Mining the Biosynthetic Potential for Specialized Metabolism of a Streptomyces Soil Community. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAY 2020, vol. 9, no. 5., Registrované v: WOS
27. [1.1] PADAYACHEE, T. - NZUZA, N. - CHEN, W.P. - NELSON, D.R. - SYED, K. Impact of lifestyle on cytochrome P450 monooxygenase repertoire is clearly evident in the bacterial phylum Firmicutes. In SCIENTIFIC REPORTS. ISSN 2045-2322, AUG 19 2020, vol. 10, no. 1., Registrované v: WOS
28. [1.1] PAULSEN, S.S. - ISBRANDT, T. - KIRKEGAARD, M. - BUIJS, Y. - STRUBE, M.L. - SONNENSCHEIN, E.C. - LARSEN, T.O. - GRAM, L. Production of the antimicrobial compound tetrabromopyrrole and the Pseudomonas quinolone system precursor, 2-heptyl-4-quinolone, by a novel marine species Pseudoalteromonas galatheae sp. nov.. In SCIENTIFIC REPORTS. ISSN 2045-2322, DEC 10 2020, vol. 10, no. 1., Registrované v: WOS
29. [1.1] QIAN, Z. - BRUHN, T. - D';AGOSTINO, P.M. - HERRMANN, A. - HASLBECK, M. - ANTAL, N. - FIEDLER, H.P. - BRACK-WERNER, R. - GULDER, T.A.M. Discovery of the Streptoketides by Direct Cloning and Rapid Heterologous Expression of a Cryptic PKS II Gene Cluster from Streptomyces sp. Tu 6314. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, JAN 17 2020, vol. 85, no. 2, p. 664-673., Registrované v: WOS
30. [1.1] REGO, A. - SOUSA, A.G.G. - SANTOS, J.P. - PASCOAL, F. - CANARIO, J. - LEAO, P.N. - MAGALHAES, C. Diversity of Bacterial Biosynthetic Genes in Maritime Antarctica. In MICROORGANISMS. FEB 2020, vol. 8, no. 2., Registrované v: WOS

31. [1.1] RISSER, F. - COLLIN, S. - DOS SANTOS-MORAIS, R. - GRUEZ, A. - CHAGOT, B. - WEISSMAN, K.J. Towards improved understanding of intersubunit interactions in modular polyketide biosynthesis: Docking in the enacyloxin IIa polyketide synthase. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, OCT 1 2020, vol. 212, no. 1., Registrované v: WOS
32. [1.1] ROKAS, A. - MEAD, M.E. - STEENWYK, J.L. - RAJA, H.A. - OBERLIES, N.H. Biosynthetic gene clusters and the evolution of fungal chemodiversity. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, JUL 1 2020, vol. 37, no. 7, p. 868-878., Registrované v: WOS
33. [1.1] SALWAN, R. - SHARMA, V. - SHARMA, A. - SINGH, A. Molecular imprints of plant beneficial Streptomyces sp. AC30 and AC40 reveal differential capabilities and strategies to counter environmental stresses. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, MAY 2020, vol. 235., Registrované v: WOS
34. [1.1] SANCHEZ-HIDALGO, M. - MARTIN, J. - GENILLOUD, O. Identification and Heterologous Expression of the Biosynthetic Gene Cluster Encoding the Lasso Peptide Humidimycin, a Caspofungin Activity Potentiator. In ANTIBIOTICS-BASEL. FEB 2020, vol. 9, no. 2., Registrované v: WOS
35. [1.1] SCHWABE, R. - SENGES, C.H.R. - BANDOW, J.E. - HEINE, T. - LEHMANN, H. - WICHE, O. - SCHLOMANN, M. - LEVICAN, G. - TISCHLER, D. Cultivation dependent formation of siderophores by Gordonia rubripertincta CWB2. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, SEP 2020, vol. 238., Registrované v: WOS
36. [1.1] SHARMA, P. - THAKUR, D. Antimicrobial biosynthetic potential and diversity of culturable soil actinobacteria from forest ecosystems of Northeast India. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 5 2020, vol. 10, no. 1., Registrované v: WOS
37. [1.1] SIGRIST, R. - PAULO, B.S. - ANGOLINI, C.F.F. - DE OLIVEIRA, L.G. Mass Spectrometry-Guided Genome Mining as a Tool to Uncover Novel Natural Products. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. ISSN 1940-087X, MAR 2020, no. 157., Registrované v: WOS
38. [1.1] SKINNIDER, M.A. - JOHNSTON, C.W. - GUNABALASINGAM, M. - MERWIN, N.J. - KIELISZEK, A.M. - MACLELLAN, R.J. - LI, H.X. - RANIERI, M.R.M. - WEBSTER, A.L.H. - CAO, M.P.T. - PFEIFLE, A. - SPENCER, N. - TO, Q.H. - WALLACE, D.P. - DEJONG, C.A. - MAGARVEY, N.A. Comprehensive prediction of secondary metabolite structure and biological activity from microbial genome sequences. In NATURE COMMUNICATIONS. ISSN 2041-1723, DEC 27 2020, vol. 11, no. 1., Registrované v: WOS
39. [1.1] SULZBACH, M. - KUNJAPUR, A.M. The Pathway Less Traveled: Engineering Biosynthesis of Nonstandard Functional Groups. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, MAY 2020, vol. 38, no. 5, p. 532-545., Registrované v: WOS
40. [1.1] SURIA, A.M. - TAN, K.R.C. - KERWIN, A.H. - GITZEL, L. - ABINI-AGBOMSON, L. - BERTENSHAW, J.M. - SEWELL, J. - NYHOLM, S.V. - BALUNAS, M.J. Hawaiian Bobtail Squid Symbionts Inhibit Marine Bacteria via Production of Specialized Metabolites, Including New Bromoalterochromides BAC-D/D ';. In MSPHERE. ISSN 2379-5042, JUL-AUG 2020, vol. 5, no. 4., Registrované v: WOS
41. [1.1] VALERO-JIMENEZ, C.A. - STEENTJES, M.B.F. - SLOT, J.C. - SHI-KUNNE, X.Q. - SCHOLTEN, O.E. - VAN KAN, J.A.L. Dynamics in Secondary Metabolite Gene Clusters in Otherwise Highly Syntenic and Stable Genomes in the Fungal Genus Botrytis. In GENOME BIOLOGY AND EVOLUTION. ISSN 1759-6653, DEC 2020, vol. 12, no. 12, p. 2491-2507., Registrované v: WOS
42. [1.1] VIGNOLLE, G.A. - MACH, R.L. - MACH-AIGNER, A.R. - DERNTL, C. Novel approach in whole genome mining and transcriptome analysis reveal conserved RiPPs in Trichoderma spp. In BMC GENOMICS. ISSN 1471-2164, MAR 27 2020, vol. 21, no. 1., Registrované v: WOS
43. [1.1] WANG, Y. - MARRERO, M.C. - MEDEMA, M.H. - VAN DIJK, A.D.J. Coevolution-based prediction of protein-protein interactions in polyketide biosynthetic assembly lines. In BIOINFORMATICS. ISSN 1367-4803, OCT 1 2020, vol. 36, no. 19, p. 4846-4853., Registrované v: WOS
44. [1.1] WEBSTER, G. - MULLINS, A.J. - CUNNINGHAM-OAKES, E. - RENGANATHAN, A. - ASWATHANARAYAN, J.B. - MAHENTHIRALINGAM, E. - VITTAL, R.R. Culturable diversity of bacterial endophytes associated with medicinal plants of the Western Ghats, India. In FEMS MICROBIOLOGY ECOLOGY. ISSN 0168-6496, SEP 2020, vol. 96, no. 9., Registrované v: WOS
45. [1.1] WILLIAMS, A.N. - SOROUT, N. - CAMERON, A.J. - STAVRINIDES, J. The Integration of Genome Mining, Comparative Genomics, and Functional Genetics for Biosynthetic Gene Cluster Identification. In FRONTIERS IN GENETICS. DEC 3 2020, vol. 11., Registrované v: WOS
46. [1.1] XU, P. - MODAVI, C. - DEMAREE, B. - TWIGG, F. - LIANG, B. - SUN, C. - ZHANG, W.J. - ABATE, A.R. Microfluidic automated plasmid library enrichment for biosynthetic gene cluster discovery. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, MAY 7 2020, vol. 48, no. 8., Registrované v: WOS

47. [1.2] Dizaji, K.G., Chen, W., Huang, H. Deep large-scale multi-task learning network for gene expression inferenceLecture In Notes in Computer Science (2020) 12074 LNBI, pp. 19-36, Registrované v: SCOPUS
48. [1.2] Heinrichs, L., Aytur, S.A., Bucci, J.P. Whole metagenomic sequencing to characterize the sediment microbial community within the Stellwagen Bank National Marine Sanctuary and preliminary biosynthetic gene cluster screening of Streptomyces scabrisporus In Marine Genomics 50, (2020) 100718, Registrované v: SCOPUS
49. [1.2] Li M.,Kang L.,Ding X.,Liu J.,Liu Q., b,Shao Y.,Molnár I.,Chen F. Monasone naphthoquinone biosynthesis and resistance in monascus fungi In mBio Volume 11, Issue 1January-February 2020 Article number e02676-19, Registrované v: SCOPUS
50. [1.2] Li, H. Statistical and computational methods in microbiome and metagenomics (Book Chapter) In Handbook of Statistical Genomics 1, (2019) pp. 977-996, Registrované v: SCOPUS
51. [1.2] Oikawa, H. Reconstitution of biosynthetic machinery of fungal natural products in heterologous hosts In Bioscience, Biotechnology and Biochemistry 84(2020), pp. 433-444, Registrované v: SCOPUS
52. [1.2] Zhao, P., Wang, G. Recent advances in synthetic biology for production of bioactive plant specialized metabolites In Zhiwu Shengli Xuebao/Plant Physiology Journal 56(2020), pp. 2296-2307, Registrované v: SCOPUS
53. [1.2] Zheng W.,Wang X.,Zhou H.,Zhang Y.,Li A.,Bian X. Establishment of recombineering genome editing system in Paraburkholderia megapolitana empowers activation of silent biosynthetic gene clusters In Microbial Biotechnology Volume 13, Issue 2, Pages 397 - 4051 March 2020, Registrované v: SCOPUS

ADCA182 MEIER, S. - GOERKE, Ch. - WOLZ, Ch. - SEIDL, K. - HOMEROVÁ, Dagmar - SCHULTHESS, B. - KORMANEC, Ján - BERGER-BACHI, B. - BISCHOFF, M. SigB and SigB-dependent arlRS and yabJ-spoVG loci affect capsule formation in Staphylococcus aureus. In Infection and Immunity, 2007, vol. 75, no. 9, pp. 4562-4571. (2006: 4.004 - IF, Q1 - JCR, 2.315 - SJR, Q1 - SJR). ISSN 0019-9567.

Citácie:

1. [1.1] ZHU, Q. - LIU, B.H. - SUN, B.L. SpoVG Modulates Cell Aggregation in Staphylococcus aureus by Regulating sasC Expression and Extracellular DNA Release. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, AUG 2020, vol. 86, no. 15., Registrované v: WOS

ADCA183 MIKULASOVA, D. - KOLLAROVA, M. - MIGINIAC-MASLOW, M. - DECOTTIGNIES, P. - JACQUOT, J.P. - KUTEJOVÁ, Eva - MERNIK, N. - EGYUDOVA, I. - MUSRATI, R. - HORECKA, T. Purification and characterization of the malate dehydrogenase from Streptomyces aureofaciens. In FEMS Microbiology Letters, 1998, vol. 159, p. 299-305. (1998 - Current Contents). ISSN 0378-1097.

Citácie:

1. [1.1] HAMADE, K. - GOKTURK, I. - BERELI, N. - TURKMEN, D. - ELKAK, A. - DENIZLI, A. A dye-affinity cryogel membrane for malate dehydrogenase purification from Saccharomyces cerevisiae. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, JAN 2 2020, vol. 31, no. 1, p. 38-52., Registrované v: WOS

ADCA184 MINÁRIK, P. - TOMASKOVA, N. - KOLLÁROVÁ, M - ANTALIK, M. Malate dehydrogenases - structure and function. In General Physiology and Biophysics, 2002, vol. 21, p. 257-265. (2001: 0.932 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] BUTTERFIELD, D.A. - BOYD-KIMBALL, D. Mitochondrial Oxidative and Nitrosative Stress and Alzheimer Disease. In ANTIOXIDANTS. SEP 2020, vol. 9, no. 9., Registrované v: WOS
2. [1.1] CHETRI, P.B. - SHUKLA, R. - TRIPATHI, T. Identification and characterization of cytosolic malate dehydrogenase from the liver fluke Fasciola gigantica. In SCIENTIFIC REPORTS. ISSN 2045-2322, AUG 7 2020, vol. 10, no. 1., Registrované v: WOS
3. [1.1] FARIA, A.R. - DORNELES, E.M.S. - PIRES, S.D. - DE ANDRADE, H.M. - LAGE, A.P. Immunoproteomics of Brucella abortus reveals potential of recombinant antigens for discriminating vaccinated from naturally infected cattle. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, OCT 2020, vol. 147., Registrované v: WOS
4. [1.1] FERREIRA, A.M. - MENDES-FAIA, A. The Role of Yeasts and Lactic Acid Bacteria on the Metabolism of Organic Acids during Winemaking. In FOODS. SEP 2020, vol. 9, no. 9., Registrované v: WOS
5. [1.1] GABAY-MASKIT, S. - CRUZ-ZARAGOZA, L.D. - SHAI, N. - EISENSTEIN, M. - BIBI, C. - COHEN, N. - HANSEN, T. - YIFRACH, E. - HARPAZ, N. - BELOSTOTSKY, R. - SCHLIEBS, W. - SCHULDINER, M. - ERDMANN, R. - ZALCKVAR, E. A piggybacking mechanism enables peroxisomal localization of the glyoxylate cycle enzyme Mdh2 in yeast. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, DEC 2020, vol. 133, no. 24., Registrované v: WOS
6. [1.1] HAMADE, K. - GOKTURK, I. - BERELI, N. - TURKMEN, D. - ELKAK, A. - DENIZLI, A.

A dye-affinity cryogel membrane for malate dehydrogenase purification from Saccharomyces cerevisiae. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, JAN 2 2020, vol. 31, no. 1, p. 38-52., Registrované v: WOS
7. [1.1] HARPER, M.M. - RUDD, D. - MEYER, K.J. - KANTHASAMY, A.G. - ANANTHARAM, V. - PIEPER, A.A. - VAZQUEZ-ROSA, E. - SHIN, M.K. - CHAUBEY, K. - KOH, Y. - EVANS, L.P. - BASSUK, A.G. - ANDERSON, M.G. - DUTCA, L. - KUDVA, I.T. - JOHN, M. Identification of chronic brain protein changes and protein targets of serum auto-antibodies after blast-mediated traumatic brain injury. In HELIYON. FEB 2020, vol. 6, no. 2., Registrované v: WOS
8. [1.1] HSIAO, C.J. - HSIEH, C.Y. - HSIEH, L.S. Cloning and characterization of the Bambusa oldhamii BoMDH-encoded malate dehydrogenase. In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, OCT 2020, vol. 174., Registrované v: WOS
9. [1.1] LIU, X. - YU, Y.B. - MAHA, I.F. - KONG, J.D. - XIE, X. - YIN, F. Label-free quantitative proteomics analysis of skin of yellow drum (Nibea albiflora) reveals immune mechanism against Cryptocaryon irritans. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, JUN 2020, vol. 101, p. 284-290., Registrované v: WOS
10. [1.1] MEEMONGKOLKIAT, T. - ALLISON, J. - SEEBACHER, F. - LIM, J. - CHANCHAO, C.P. - OLDROYD, B.P. Thermal adaptation in the honeybee (Apis mellifera) via changes to the structure of malate dehydrogenase. In JOURNAL OF EXPERIMENTAL BIOLOGY. ISSN 0022-0949, SEP 2020, vol. 223, no. 18., Registrované v: WOS
11. [1.1] ROSENTHAL, M. - METZL-RAZ, E. - BURGI, J.M. - YIFRACH, E. - DRWESH, L. - FADEL, A. - PELEG, Y. - RAPAPORT, D. - WILMANNS, M. - BARKAI, N. - SCHULDINER, M. - ZALCKVAR, E. Uncovering targeting priority to yeast peroxisomes using an in-cell competition assay. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 1 2020, vol. 117, no. 35, p. 21432-21440., Registrované v: WOS
12. [1.1] SCIACOVELLI, M. - SCHMIDT, C. - MAHER, E.R. - FREZZA, C. Metabolic Drivers in Hereditary Cancer Syndromes. In ANNUAL REVIEW OF CANCER BIOLOGY, VOL 4. ISSN 2472-3428, 2020, vol. 4, p. 77-97., Registrované v: WOS
13. [1.1] TIAN, X.C. - ZHANG, K.X. - LIU, S.L. - SUN, X. - LI, X.Y. - SONG, J. - QI, Z.Y. - WANG, Y. - FANG, Y.L. - WANG, J.J. - JIANG, S.T. - YANG, C. - TIAN, Z.X. - LI, W.X. - NING, H.L. Quantitative Trait Locus Analysis of Protein and Oil Content in Response to Planting Density in Soybean (Glycine max [L.] Merri.) Seeds Based on SNP Linkage Mapping. In FRONTIERS IN GENETICS. JUN 25 2020, vol. 11., Registrované v: WOS
14. [1.1] VASILEVA, I.A. - IVANOVA, J.G. - GIGOVA, L.G. Selection of nitrogen source affects the growth and metabolic enzyme activities of Chlorella vulgaris (Beijerinck) strain R-06/2 (Chlorophyta). In ARCHIVES OF BIOLOGICAL SCIENCES. ISSN 0354-4664, 2020, vol. 72, no. 2, p. 291-300., Registrované v: WOS
15. [1.1] XU, Y.Q. - ZHU, Y. - LI, X.T. - SUN, B.G. Dynamic balancing of intestinal short-chain fatty acids: The crucial role of bacterial metabolism. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, JUN 2020, vol. 100, p. 118-130., Registrované v: WOS
16. [1.1] YANG, H. - DU, L.L. - ZHANG, Z.C. Potential biomarkers in septic shock besides lactate. In EXPERIMENTAL BIOLOGY AND MEDICINE. ISSN 1535-3702, JUN 2020, vol. 245, no. 12, p. 1066-1072., Registrované v: WOS
17. [1.1] ZHAO, Y.F. - SHEN, Y. - WEN, Y.R. - CAMPBELL, R.E. High-Performance Intensiometric Direct- and Inverse-Response Genetically Encoded Biosensors for Citrate. In ACS CENTRAL SCIENCE. ISSN 2374-7943, AUG 26 2020, vol. 6, no. 8, p. 1441-1450., Registrované v: WOS
18. [1.1] ZHOU, B. - MA, Y. - TIAN, Y. - LI, J. - ZHONG, H. Quantitative Proteomics Analysis by Sequential Window Acquisition of All Theoretical Mass Spectra-Mass Spectrometry Reveals Inhibition Mechanism of Pigments and Citrinin Production of Monascus Response to High Ammonium Chloride Concentration. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, JAN 22 2020, vol. 68, no. 3, p. 808-817., Registrované v: WOS
19. [1.2] AKINBADEWA, Adedamola Oladapo - ADEWOLE, Henry Adefisayo - OLALEYE, Victor Folorunso - OGUNDEPO, Gbenga Emmanuel. Sublethal effect of glyphosate [n-(Phosphonomethyl)glycine] on growth performance and biochemical activities in some organs of clarias gariepinus (burchell, 1822) fingerlings. In Agraarteadus. ISSN 10240845, 2020-01-01, 31, 2, pp. 122-130., Registrované v: SCOPUS

ADCA185 MINGYAR, Erik - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - BEKEOVÁ, Carmen - KORMANEC, Ján. A γ-butyrolactone autoregulator-receptor system involved in the regulation of auricin production in Streptomyces aureofaciens CCM 3239. In Applied Microbiology and Biotechnology, 2015, vol. 99, pp. 309–325. (2014: 3.337 - IF, Q1 - JCR, 1.332 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-014-6057-0

Citácie:
1. [1.1] BARREALES, E.G. - PAYERO, T.D. - JAMBRINA, E. - APARICIO, J.F. The Streptomyces filipinensis Gamma-Butyrolactone System Reveals Novel Clues for Understanding the Control of Secondary Metabolism. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, SEP 2020, vol. 86, no. 18, e00443-20, Registrované v: WOS
2. [1.1] HANDEL, F. - KULIK, A. - MAST, Y. Investigation of the Autoregulator-Receptor System in the Pristinamycin Producer Streptomyces pristinaespiralis. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 30 2020, vol. 11, 580990, Registrované v: WOS

ADCA186 MIYADA, C.G. - HORWITZ, A.H. - TIMKO, Jozef - WILCOX, G. DNA-sequence of the arac regulatory gene from escherichia-coli B-R. In Nucleic acids research, 1980, vol. 8, p. 5267-5274. ISSN 0305-1048.

Citácie:
1. [1.1] SCHWAIGER, K.N. - VOIT, A. - DOBIASOVA, H. - LULEY, C. - WILTSCHI, B. - NIDETZKY, B. Plasmid Design for Tunable Two-Enzyme Co-Expression Promotes Whole-Cell Production of Cellobiose. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, NOV 2020, vol. 15, no. 11, SI2000063., Registrované v: WOS

ADCA187 MUHAMMAD, A. - SCHILLER, H.B. - FORSTER, F. - ECKERSTORFER, P. - GEYEREGGER, R. - LEKSA, Vladimír - ZLABINGER, G. - SIBILIA, M. - SONNLEITNER, A. Ch. - PASTER, W. - STOCKINGER, H. Sequential Cooperation of CD2 and CD48 in the Buildup of the Early TCR Signalosome. In Journal of Immunology, 2009, vol. 182, p. 7672-7680. (2008: 6.000 - IF, Q1 - JCR, 4.609 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0022-1767.

Citácie:
1. [1.1] SIO, Y.Y. - ANANTHARAMAN, R. - LEE, S.Q.E. - MATTA, S.A. - NG, Y.T. - CHEW, F.T. The Asthma-associated PER1-like domain-containing protein 1 (PERLD1) Haplotype Influences Soluble Glycosylphosphatidylinositol Anchor Protein (sGPI-AP) Levels in Serum and Immune Cell Proliferation. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 20 2020, vol. 10, no. 1., Registrované v: WOS
2. [1.1] WANG, Z.W. - XIE, C.X. - LI, Y. - CAI, J. - TANG, J.F. - JIAN, J.C. - KWOK, K.W.H. - LU, Y.S. Molecular characterization and expression of CD48 in Nile tilapia (Oreochromis niloticus) in response to different stimulus. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, FEB 2020, vol. 97, p. 515-522., Registrované v: WOS

ADCA188 MUCHOVÁ, Katarína - CHROMÍKOVÁ, Zuzana - BARÁK, Imrich. Control of Bacillus subtilis cell shape by RodZ. In Environmental Microbiology, 2013, vol. 15, p. 3259-3271. (2012: 5.756 - IF, Q1 - JCR, 3.165 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.12200

Citácie:
1. [1.1] DERSCH, S. - REIMOLD, C. - STOLL, J. - BREDDERMANN, H. - HEIMERL, T. - SOUFO, H.J.D. - GRAUMANN, P.L. Polymerization of Bacillus subtilis MreB on a lipid membrane reveals lateral co-polymerization of MreB paralogs and strong effects of cations on filament formation. In BMC MOLECULAR AND CELL BIOLOGY. NOV 4 2020, vol. 21, no. 1, 76, Registrované v: WOS

ADCA189 MUCHOVÁ, Katarína - JAMROŠKOVIČ, Ján - BARÁK, Imrich. Lipid domains in Bacillus subtilis anucleate cells. In Research in Microbiology, 2010, vol. 161, p. 783-790. (2009: 2.154 - IF, Q3 - JCR, 1.169 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0923-2508. Dostupné na: https://doi.org/10.1016/j.resmic.2010.07.006

Citácie:
1. [1.1] LV, X.Q. - ZHANG, C. - CUI, S.X. - XU, X.H. - WANG, L.L. - LI, J.H. - DU, G.C. - CHEN, J. - LEDESMA-AMARO, R. - LIU, L. Assembly of pathway enzymes by engineering functional membrane microdomain components for improved N-acetylglucosamine synthesis in Bacillus subtilis. In METABOLIC ENGINEERING. ISSN 1096-7176, SEP 2020, vol. 61, p. 96-105., Registrované v: WOS

ADCA190 MUCHOVÁ, Katarína - CHROMÍKOVÁ, Zuzana - BARÁK, Imrich**. Linking the peptidoglycan synthesis protein complex with asymmetric cell division during bacillus subtilis sporulation. In International Journal of Molecular Sciences, 2020, vol. 21, no. 4513. (2019: 4.556 - IF, Q1 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms21124513

Citácie:
1. [1.1] DIALLO, M. - KINT, N. - MONOT, M. - COLLAS, F. - MARTIN-VERSTRAETE, I. - VAN DER OOST, J. - KENGEN, S.W.M. - LOPEZ-CONTRERAS, A.M. Transcriptomic and Phenotypic Analysis of aspoIIEMutant inClostridium beijerinckii. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 15 2020, vol. 11, 556064, Registrované v: WOS

ADCA191 MUCHOVÁ, Katarína - KUTEJOVÁ, Eva - PRIBIŠOVÁ, L - WILKINSON, A.J. - BARÁK, Imrich. Bacillus subtilis division protein DivIVA. In Acta Crystallographica D, 2002, vol. 58, p. 1542-1543.

ISSN 0907-4449.
Citácie:
1. [1.1] SHARMA, K. - SULTANA, T. - LIAO, M.M. - DAHMS, T.E.S. - DILLON, J.A.R. EF1025, a Hypothetical Protein From Enterococcus faecalis, Interacts With DivIVA and Affects Cell Length and Cell Shape. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, FEB 12 2020, vol. 11, 83, Registrované v: WOS

ADCA192 MUCHOVÁ, Katarína - WILKINSON, A.J. - BARÁK, Imrich. Changes of lipid domains in Bacillus subtilis cells with disrupted. In FEMS Microbiology Letters, 2011, vol. 325, p. 92-98. (2010: 2.040 - IF, Q3 - JCR, 1.081 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2011.02417.x
Citácie:
1. [1.1] GRAY, D.A. - WENZEL, M. More Than a Pore: A Current Perspective on the In Vivo Mode of Action of the Lipopeptide Antibiotic Daptomycin. In ANTIBIOTICS-BASEL. JAN 2020, vol. 9, no. 1., Registrované v: WOS
2. [1.1] NICKELS, J.D. - POUDEL, S. - CHATTERJEE, S. - FARMER, A. - CORDNER, D. - CAMPAGNA, S.R. - GIANNONE, R.J. - HETTICH, R.L. - MYLES, D.A.A. - STANDAERT, R.F. - KATSARAS, J. - ELKINS, J.G. Impact of Fatty-Acid Labeling of Bacillus subtilis Membranes on the Cellular Lipidome and Proteome. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, MAY 15 2020, vol. 11., Registrované v: WOS
3. [1.1] ZIELINSKA, A. - SAVIETTO, A. - BORGES, A.D. - MARTINEZ, D. - BERBON, M. - ROELOFSEN, J.R. - HARTMAN, A.M. - DE BOER, R. - VAN DER KLEI, I.J. - HIRSCH, A.K.H. - HABENSTEIN, B. - BRAMKAMP, M. - SCHEFFERS, D.J. Flotillin-mediated membrane fluidity controls peptidoglycan synthesis and MreB movement. In ELIFE. ISSN 2050-084X, JUL 14 2020, vol. 9., Registrované v: WOS

ADCA193 MULLEROVÁ, Denisa - KRAJČÍKOVÁ, Daniela - BARÁK, Imrich. Interactions between Bacillus subtilis early spore coat morphogenetic proteins. In FEMS Microbiology Letters, 2009, vol. 299, p. 74-85. (2008: 2.021 - IF, Q3 - JCR, 1.084 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0378-1097.
Citácie:
1. [1.1] LIN, P. - YUAN, H.B. - DU, J.K. - LIU, K.Q. - LIU, H.L. - WANG, T.F. Progress in research and application development of surface display technology using Bacillus subtilis spores. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, MAR 2020, vol. 104, no. 6, p. 2319-2331., Registrované v: WOS
2. [1.1] ROMERO-RODRIGUEZ, A. - TRONCOSO-COTAL, S. - GUERRERO-ARAYA, E. - PAREDES-SABJA, D. The Clostridioides difficile Cysteine-Rich Exosporium Morphogenetic Protein, CdeC, Exhibits Self-Assembly Properties That Lead to Organized Inclusion Bodies in Escherichia colie. In MSPHERE. ISSN 2379-5042, NOV-DEC 2020, vol. 5, no. 6., Registrované v: WOS

ADCA194 NAJMANOVA, L. - KUTEJOVÁ, Eva - KADLEC, J - POLAN, M. - OLSOVSKA, J. - BENADA, O. - NOVOTNA, J. - KAMENIK, Z. - HALADA, P. - BAUER, Jacob - JANATA, J. Characterization of N-Demethyllincosamide Methyltransferases LmbJ and CcbJ. In Chembiochem, 2013, vol. 14, p. 2259-2262. (2012: 3.740 - IF, Q1 - JCR, 1.874 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1439-4227. Dostupné na: https://doi.org/10.1002/cbic.201300389
Citácie:
1. [1.1] LIN, C.Y. - PANG, A.P. - ZHANG, Y. - QIAO, J.J. - ZHAO, G.R. Comparative transcriptomic analysis reveals the significant pleiotropic regulatory effects of LmbU on lincomycin biosynthesis. In MICROBIAL CELL FACTORIES. FEB 12 2020, vol. 19, no. 1., Registrované v: WOS
2. [1.1] WANG, S.A. - LIN, C.I. - ZHANG, J.W. - USHIMARU, R. - SASAKI, E. - LIU, H.W. Studies of lincosamide formation complete the biosynthetic pathway for lincomycin A. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, OCT 6 2020, vol. 117, no. 40, p. 24794-24801., Registrované v: WOS

ADCA195 NICOLUSSI, A. - AUER, M. - SEVCNIKAR, B. - PAUMANN-PAGE, M. - PFANZAGL, V. - ZÁMOCKÝ, Marcel - HOFBAUER, S. - FURTMULLER, P.G. - OBINGER, C. Posttranslational modification of heme in peroxidases – impact on structure and catalysis. In Archives of Biochemistry and Biophysics, 2018, vol. 643, p. 14-23. (2017: 3.118 - IF, Q2 - JCR, 1.350 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2018.02.008
Citácie:
1. [1.1] KHMELEVTSOVA, L.E. - SAZYKIN, I.S. - AZHOGINA, T.N. - SAZYKINA, M.A. Prokaryotic Peroxidases and Their Application in Biotechnology (Review). In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, JUL 2020, vol. 56, no. 4, p. 373-380.,

Registrované v: WOS

ADCA196 NOVÁKOVÁ, Renáta - REHÁKOVÁ, Alena - KUTAŠ, Peter - FECKOVÁ, Ľubomíra - KORMANEC, Ján. The role of two SARP-family transcriptional regulators in regulation of the auricin gene cluster in Streptomyces aureofaciens CCM 3239. In Microbiology-SGM, 2011, vol. 157, p. 1629-1639. (2010: 2.957 - IF, Q2 - JCR, 1.804 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.047795-0

Citácie:

1. [1.1] KRAUSE, J. - HANDAYANI, I. - BLIN, K. - KULIK, A. - MAST, Y. Disclosing the Potential of the SARP-Type Regulator PapR2 for the Activation of Antibiotic Gene Clusters in Streptomycetes. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, FEB 18 2020, vol. 11, 225, Registrované v: WOS

ADCA197 NOVÁKOVÁ, Renáta - HOMEROVÁ, Dagmar - FECKOVÁ, Ľubomíra - KORMANEC, Ján. Characterization of a regulatory gene essential for the production of the angucyclinelike polyketide antibiotic auricin in Streptomyces aureofaciens CCM 3239. In Microbiology, 2005, vol. 151, p. 2693-2706. ISSN 1350-0872.

Citácie:

1. [1.1] AMINOV, R. Strategies to Prevent the Spread of Antibiotic Resistance Understanding the Role of Antibiotics in Nature and Their Rational Use. In ANTIBIOTIC DRUG RESISTANCE. 2020, p. 589-635., Registrované v: WOS

2. [1.1] GUMMERLICH, N. - REBETS, Y. - PAULUS, C. - ZAPP, J. - LUZHETSKYY, A. Targeted Genome Mining-From Compound Discovery to Biosynthetic Pathway Elucidation. In MICROORGANISMS. DEC 2020, vol. 8, no. 12, 2034, Registrované v: WOS

ADCA198 NOVÁKOVÁ, Renáta - BISTAKOVA, J. - KORMANEC, Ján. Characterization of the polyketide spore pigment cluster whiESa in Streptomyces aureofaciens CCM 3239. In Archives of Microbiology, 2004, vol. 182, p. 388-395. ISSN 0302-8933.

Citácie:

1. [1.1] YUN, B.R. - MALIK, A. - KIM, S.B. Genome based characterization of Kitasatospora sp. MMS16-BH015, a multiple heavy metal resistant soil actinobacterium with high antimicrobial potential. In GENE. ISSN 0378-1119, APR 5 2020, vol. 733, 144379, Registrované v: WOS

ADCA199 NOVÁKOVÁ, Renáta* - NÚñEZ, L.E. - HOMEROVÁ, Dagmar - KNIRSCHOVÁ, Renáta - FECKOVÁ, Ľubomíra - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - MENÉNDEZ, N. - MORÍS, F. - CORTÉS, J. - KORMANEC, Ján**. Increased heterologous production of the antitumoral polyketide mithramycin A by engineered Streptomyces lividans TK24 strains. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 857–869. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-017-8642-5

Citácie:

1. [1.1] AHMED, Y. - REBETS, Y. - ESTEVEZ, M.R. - ZAPP, J. - MYRONOVSKYI, M. - LUZHETSKYY, A. Engineering of Streptomyces lividans for heterologous expression of secondary metabolite gene clusters. In MICROBIAL CELL FACTORIES. JAN 9 2020, vol. 19, no. 1, 5, Registrované v: WOS

2. [1.1] LIAO, Z.J. - SONG, Z.Q. - XU, J. - MA, Z. - BECHTHOLD, A. - YU, X.P. Identification of a gene fromStreptomyces rimosusM527 negatively affecting rimocidin biosynthesis and morphological differentiation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, DEC 2020, vol. 104, no. 23, p. 10191-10202., Registrované v: WOS

3. [1.1] PARK, D. - SWAYAMBHU, G. - PFEIFER, B.A. Heterologous biosynthesis as a platform for producing new generation natural products. In CURRENT OPINION IN BIOTECHNOLOGY. ISSN 0958-1669, DEC 2020, vol. 66, p. 123-130., Registrované v: WOS

4. [1.1] WANG, J. - ZHANG, R.H. - CHEN, X. - SUN, X.X. - YAN, Y.J. - SHEN, X.L. - YUAN, Q.P. Biosynthesis of aromatic polyketides in microorganisms using type II polyketide synthases. In MICROBIAL CELL FACTORIES. MAY 24 2020, vol. 19, no. 1, 110, Registrované v: WOS

5. [1.1] ZABALA, D. - SONG, L.J. - DASHTI, Y. - CHALLIS, G.L. - SALAS, J. - MENDEZ, C. Heterologous reconstitution of the biosynthesis pathway for 4-demethyl-premithramycinone, the aglycon of antitumor polyketide mithramycin. In MICROBIAL CELL FACTORIES. MAY 24 2020, vol. 19, no. 1, 111, Registrované v: WOS

6. [1.2] SALWAN, Richa - SHARMA, Vivek. Bioactive compounds of Streptomyces: Biosynthesis to applications. In Studies in Natural Products Chemistry. ISSN 15725995, 2020-01-01, 64, pp. 467-491., Registrované v: SCOPUS

ADCA200 NOVÁKOVÁ, Renáta - KUTAŠ, Peter - FECKOVÁ, Ľubomíra - KORMANEC, Ján. The role of the TetR-family transcriptional regulator Aur1R in negative regulation of the auricin gene cluster in Streptomyces aureofaciens CCM 3239. In Microbiology-SGM, 2010, vol. 156, p. 2374-2383. (2009: 3.025 - IF, Q2 - JCR, 1.710 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.037895-0

Citácie:
1. [1.1] BARREALES, E.G. - PAYERO, T.D. - JAMBRINA, E. - APARICIO, J.F. The Streptomyces filipinensis Gamma-Butyrolactone System Reveals Novel Clues for Understanding the Control of Secondary Metabolism. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, SEP 2020, vol. 86, no. 18., Registrované v: WOS
2. [1.1] ZHOU, Q. - NING, S.Q. - LUO, Y.Z. Coordinated regulation for nature products discovery and overproduction in Streptomyces. In SYNTHETIC AND SYSTEMS BIOTECHNOLOGY. ISSN 2405-805X, JUN 2020, vol. 5, no. 2, p. 49-58., Registrované v: WOS

ADCA201 NOVÁKOVÁ, Slavomíra** - DANCHENKO, Maksym - ŠKULTÉTY, Ľudovít** - FIALOVÁ, Ivana - LEŠKOVÁ, Alexandra - BEKE, Gábor - FLORES - RAMÍREZ, Gabriela - GLASA, Miroslav. Photosynthetic and stress responsive proteins are altered more effectively in Nicotiana benthamiana infected with Plum pox virus aggressive PPV-CR versus mild PPV-C cherry-adapted isolates. In Journal of Proteome Research, 2018, vol. 17, no. 9, p. 3114-3127. (2017: 3.950 - IF, Q1 - JCR, 1.818 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1535-3893. Dostupné na: https://doi.org/10.1021/acs.jproteome.8b00230 (VEGA 2/0124/15 : Proteomická analýza interakcie vírus šarky slivky (PPV)/ čerešňa (Prunus avium) a faktorov adaptácie vírusu na hostiteľa.. APVV-0174-12 : Vývoj inovatívnych postupov na charakterizáciu a kontrolu hospodársky dôležitých a novo sa objavujúcich vírusových patogénov červených kôstkovín)

Citácie:
1. [1.1] COLLUM, T.D. - STONE, A.L. - SHERMAN, D.J. - ROGERS, E.E. - DARDICK, C. - CULVER, J.N. Translatome Profiling of Plum Pox Virus-Infected Leaves in European Plum Reveals Temporal and Spatial Coordination of Defense Responses in Phloem Tissues. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, JAN 2020, vol. 33, no. 1, p. 66-77., Registrované v: WOS
2. [1.1] DANG, M.Q. - CHENG, Q. - HU, Y. - WU, J.X. - ZHOU, X.P. - QIAN, Y.J. Proteomic Changes during MCMV Infection Revealed by iTRAQ Quantitative Proteomic Analysis in Maize. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 1 2020, vol. 21, no. 1., Registrované v: WOS
3. [1.1] DE MORI, G. - SAVAZZINI, F. - GEUNA, F. Molecular tools to investigate Sharka disease in Prunus species. In APPLIED PLANT BIOTECHNOLOGY FOR IMPROVING RESISTANCE TO BIOTIC STRESS. 2020, p. 203-223., Registrované v: WOS
4. [1.1] RAJAMAKI, M.L. - SIKORSKAITE-GUDZIUNIENE, S. - SARMAH, N. - VARJOSALO, M. - VALKONEN, J.P.T. Nuclear proteome of virus-infected and healthy potato leaves. In BMC PLANT BIOLOGY. ISSN 1471-2229, JUL 29 2020, vol. 20, no. 1., Registrované v: WOS
5. [1.1] RODAMILANS, B. - VALLI, A. - GARCIA, J.A. Molecular Plant-Plum Pox Virus Interactions. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, JAN 2020, vol. 33, no. 1, p. 6-17., Registrované v: WOS
6. [1.1] SANFACON, H. Modulation of disease severity by plant positive-strand RNA viruses: The complex interplay of multifunctional viral proteins, subviral RNAs and virus-associated RNAs with plant signaling pathways and defense responses. In IMMUNOPATHOLOGY. ISSN 0065-3527, 2020, vol. 107, p. 87-131., Registrované v: WOS
7. [1.1] YANG, X. - DAS, P.P. - OPPENHEIMER, P. - ZHOU, G.H. - WONG, S.M. iTRAQ-based protein analysis provides insight into heterologous superinfection exclusion with TMV-43A against CMV in tobacco (Nicotiana benthamiana) plants. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, OCT 30 2020, vol. 229., Registrované v: WOS

ADCA202 NOVÁKOVÁ, Slavomíra - ŠUBR, Zdeno W. - KOVÁČ, Andrej - FIALOVÁ, Ivana - BEKE, Gábor - DANCHENKO, Maksym**. Cucumber mosaic virus resistance: Comparative proteomics of contrasting Cucurnis sativus cultivars after long-term infection. In Journal of Proteomics, 2020, vol. 214, art. no. 103626. (2019: 3.509 - IF, Q2 - JCR, 1.189 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1874-3919. Dostupné na: https://doi.org/10.1016/j.jprot.2019.103626 (VEGA 2/0032/18 : Výskyt a variabilita vírusov hospodársky významných plodín v skleníkových podmienkach na Slovensku a analýza epidemiologických faktorov ovplyvňujúcich ich virulenciu a šírenie. APVV-18-0005 : Analýza faktorov ovplyvňujúcich odpoveď plodiny na infekciu potyvírusmi na molekulárnej a bunkovej úrovni)

Citácie:
1. [1.1] KUMAR, R. - BARUA, P. - CHAKRABORTY, N. - NANDI, A.K. Systemic acquired resistance specific proteome ofArabidopsis thaliana. In PLANT CELL REPORTS. ISSN 0721-7714, NOV 2020, vol. 39, no. 11, p. 1549-1563., Registrované v: WOS

ADCA203 OLEXOVA, L. - DOVICOVICOVA, L. - SVEC, M. - SIEKEL, P. - KUCHTA, T. Detection of gluten-containing cereals in flours and “gluten-free” bakery products by polymerase chain reaction. In Food Control, 2006, vol. 17, p. 234–237. (2005: 1.107 - IF, Q2 - JCR, 0.596 - SJR, Q1 - SJR). ISSN 0956-7135.

Citácie:

1. [1.2] RUSTGI, Sachin - SHEWRY, Peter - BROUNS, Fred. Health hazards associated with wheat and gluten consumption in susceptible individuals and status of research on dietary therapies. In Wheat Quality For Improving Processing And Human Health, 2020-03-17, pp. 471-515., Registrované v: SCOPUS

ADCA204 ONDROVIČOVÁ, Gabriela - LIU, T. - SINGH, K. - TIAN, B. - LI, H. - GAKH, O. - PEREČKO, D. - JANATA, J. - GRANOT, Z. - ORLY, J. - KUTEJOVÁ, Eva - SUZUKI, C.K. Cleavage site selection within a folded substrate by the mitochondrial ATPdependent Lon protease. In Journal of Biological Chemistry, 2005, vol. 280, p. 25103-25110. (2004: 6.355 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0021-9258.

Citácie:

1. [1.1] BESSE, A. - BREZAVAR, D. - HANSON, J. - LARSON, A. - BONNEN, P.E. LONP1 de novo dominant mutation causes mitochondrial encephalopathy with loss of LONP1 chaperone activity and excessive LONP1 proteolytic activity. In MITOCHONDRION. ISSN 1567-7249, MAR 2020, vol. 51, p. 68-78., Registrované v: WOS

2. [1.1] BOSE, H.S. - MARSHALL, B. - DEBNATH, D.K. - PERRY, E.W. - WHITTAL, R.M. Electron Transport Chain Complex II Regulates Steroid Metabolism. In ISCIENCE. JUL 24 2020, vol. 23, no. 7., Registrované v: WOS

3. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS

4. [1.1] VOOS, W. - POLLECKER, K. The Mitochondrial Lon Protease: Novel Functions off the Beaten Track?. In BIOMOLECULES. FEB 2020, vol. 10, no. 2., Registrované v: WOS

ADCA205 ORAVCOVA, K. - KACLIKOVA, E. - KRASCENICSOVA, K. - PANGALLO, Domenico - BREZNA, B. - SIEKEL, P. - KUCHTA, T. Detection and quantification of Listeria monocytogenes by 5';-nuclease polymerase chain reaction targeting the actA gene. In Letters in Applied Microbiology, 2006, vol. 42, p. 15-18. (2005: 1.440 - IF, Q3 - JCR, 0.738 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0266-8254.

Citácie:

1. [1.1] AZINHEIRO, S. - CARVALHO, J. - PRADO, M. - GARRIDO-MAESTU, A. Multiplex Detection ofSalmonellaspp.,E. coliO157 andL. monocytogenesby qPCR Melt Curve Analysis in Spiked Infant Formula. In MICROORGANISMS. SEP 2020, vol. 8, no. 9., Registrované v: WOS

2. [1.1] JANA, M. - ADRIANA, V. - EVA, K. Evaluation of DNA Extraction Methods for Culture-Independent Real-Time PCR-Based Detection of Listeria monocytogenes in Cheese. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, MAR 2020, vol. 13, no. 3, p. 667-677., Registrované v: WOS

ADCA206 OSLANCOVÁ, A. - JANEČEK, Štefan. Oligo-1,6-glucosidase and neopullulanase enzyme subfamilies from the a-amylase family defined by the fifth conserved sequence region. In Cellular and Molecular Life Sciences : (CMLS), 2002, vol. 59, p. 1945-1959. (2001: 4.539 - IF, karentované - CCC). (2002 - Current Contents). ISSN 1420-682X.

Citácie:

1. [1.1] ANDERSEN, S. - MOLLER, M.S. - POULSEN, J.C.N. - PICHLER, M.J. - SVENSSON, B. - LO LEGGIO, L. - GOH, Y.J. - ABOU HACHEM, M. An 1,4-alpha-Glucosyltransferase Defines a New Maltodextrin Catabolism Scheme in Lactobacillus acidophilus. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, AUG 2020, vol. 86, no. 15., Registrované v: WOS

2. [1.1] DONG, Z.X. - TANG, C.D. - LU, Y.F. - YAO, L.G. - KAN, Y.C. Microbial Oligo-alpha-1,6-Glucosidase: Current Developments and Future Perspectives. In STARCH-STARKE. ISSN 0038-9056, JAN 2020, vol. 72, no. 1-2., Registrované v: WOS

3. [1.1] MALKA, O. - EASSON, M.L.A.E. - PAETZ, C. - GOTZ, M. - REICHELT, M. - STEIN, B. - LUCK, K. - STANISIC, A. - JURAVEL, K. - SANTOS-GARCIA, D. - MONDACA, L.L. - SPRINGATE, S. - COLVIN, J. - WINTER, S. - GERSHENZON, J. - MORIN, S. - VASSAO, D.G. Glucosylation prevents plant defense activation in phloem-feeding insects. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, DEC 2020, vol. 16, no. 12, p. 1420-+., Registrované v: WOS

4. [1.1] SHOFIYAH, S.S. - YULIANI, D. - WIDYA, N. - SARIAN, F.D. - PUSPASARI, F. - RADJASA, O.K. - IHSANAWATI - NATALIA, D. Isolation, expression, and characterization of raw starch degrading alpha-amylase from a marine lake Bacillus megaterium NL3. In HELIYON. DEC 2020, vol. 6, no. 12., Registrované v: WOS

ADCA207 PACE, C.N. - FU, H. - FRYAR, K.L. - LANDUA, J. - TREVINO, S.R. - SCHELL, D. - THURLKILL, R.L. - IMURA, S. - SCHOLTZ, J.M. - GAJIWALA, K. - ŠEVČÍK, Jozef - URBÁNIKOVÁ, Ľubica - MYERS, J.K. - TAKANO, K. - HEBERT, E.J. - SHIRLEY, B.A. - GRIMSLEY, G.R. Contribution of hydrogen bonds to protein stability. In Protein Science, 2014, vol.

23, p. 652–661. (2013: 2.861 - IF, Q3 - JCR, 1.982 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0961-8368. Dostupné na: https://doi.org/10.1002/pro.2449

Citácie:

1. [1.1] ADDAI, F.P. - WANG, T.T. - KOSIBA, A.A. - LIN, F. - ZHEN, R. - CHEN, D.F. - GU, J. - SHI, H.F. - ZHOU, Y. Integration of elastin-like polypeptide fusion system into the expression and purification of Lactobacillus sp. B164 beta-galactosidase for lactose hydrolysis. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, SEP 2020, vol. 311., Registrované v: WOS

2. [1.1] AHMAD, N.N. - KAMARUDIN, N.H.A. - LEOW, A.T.C. - ABD RAHMAN, R.N.Z.R. The Role of Surface Exposed Lysine in Conformational Stability and Functional Properties of Lipase fromStaphylococcusFamily. In MOLECULES. SEP 2020, vol. 25, no. 17., Registrované v: WOS

3. [1.1] DUTTA, J. - SAHOO, D.K. - JENA, S. - TULSIYAN, K.D. - BISWAL, H.S. Non-covalent interactions with inverted carbon: a carbo-hydrogen bond or a new type of hydrogen bond?. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, APR 28 2020, vol. 22, no. 16, p. 8988-8997., Registrované v: WOS

4. [1.1] FRIEDRICH, D. - PERODEAU, J. - NIEUWKOOP, A.J. - OSCHKINAT, H. MAS NMR detection of hydrogen bonds for protein secondary structure characterization. In JOURNAL OF BIOMOLECULAR NMR. ISSN 0925-2738, MAY 2020, vol. 74, no. 4-5, p. 247-256., Registrované v: WOS

5. [1.1] GEORGIEV, D.D. - GLAZEBROOK, J.F. Quantum transport and utilization of free energy in protein alpha-helices. In QUANTUM BOUNDARIES OF LIFE. ISSN 0065-3276, 2020, vol. 82, p. 253-300., Registrované v: WOS

6. [1.1] GHOSH, A. - YAN, H. Stability Analysis at Key Positions of EGFR Related to Non-small Cell Lung Cancer. In CURRENT BIOINFORMATICS. ISSN 1574-8936, 2020, vol. 15, no. 3, p. 260-267., Registrované v: WOS

7. [1.1] KAMIS, S.L. - YEE, T.M. - AKASAKA, H. - OHTAKE, N. Wear behavior of non-hydrogenated and hydrogenated DLC films under protein lubricated condition. In JURNAL TRIBOLOGI. ISSN 2289-7232, JUN 2020, vol. 25, p. 136-145., Registrované v: WOS

8. [1.1] KHAN, Z.A. - MISHRA, C. - JYOTIRANJAN, T. In silico analysis of caprine superoxide dismutase 1 (SOD1) gene. In GENOMICS. ISSN 0888-7543, JAN 2020, vol. 112, no. 1, p. 212-217., Registrované v: WOS

9. [1.1] KUMAR, R. - JAYARAMAN, M. - RAMADAS, K. - CHANDRASEKARAN, A. Insight into the structural and functional analysis of the impact of missense mutation on cytochrome P450 oxidoreductase. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, NOV 2020, vol. 100., Registrované v: WOS

10. [1.1] KUMAR, S.U. - KUMAR, D.T. - MANDAL, P.D. - SANKAR, S. - HALDAR, R. - KAMARAJ, B. - WALTER, C.E.J. - SIVA, R. - DOSS, C.G.P. - ZAYED, H. Comprehensive in silico screening and molecular dynamics studies of missense mutations in Sjogren-Larsson syndrome associated with the ALDH3A2 gene. In INFLAMMATORY DISORDERS - PT B. ISSN 1876-1623, 2020, vol. 120, p. 349-377., Registrované v: WOS

11. [1.1] LAHA, S. - CHAKRABORTY, J. - DAS, S. - MANNA, S.K. - BISWAS, S. - CHATTERJEE, R. Characterizations of SARS-CoV-2 mutational profile, spike protein stability and viral transmission. In INFECTION GENETICS AND EVOLUTION. ISSN 1567-1348, NOV 2020, vol. 85., Registrované v: WOS

12. [1.1] LOPEZ-CHAVEZ, E. - PEREZ-HERNANDEZ, G. - APARICIO, F. - ALAS, S.J. On the Thermal Stability of O-6-Methylguanine-DNA Methyltransferase from Archaeon Pyrococcus kodakaraensis by Molecular Dynamics Simulations. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, APR 27 2020, vol. 60, no. 4, p. 2138-2154., Registrované v: WOS

13. [1.1] MANYUMWA, C.V. - EMAMEH, R.Z. - BISHOP, O.T. Alpha-Carbonic Anhydrases from Hydrothermal Vent Sources as Potential Carbon Dioxide Sequestration Agents: In Silico Sequence, Structure and Dynamics Analyses. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2020, vol. 21, no. 21., Registrované v: WOS

14. [1.1] MAZMANIAN, K. - SARGSYAN, K. - LIM, C. How the Local Environment of Functional Sites Regulates Protein Function. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, JUN 3 2020, vol. 142, no. 22, p. 9861-9871., Registrované v: WOS

15. [1.1] NARANG, S.S. - SHUAIB, S. - GOYA, D. - GOYAL, B. In silico-guided identification of potential inhibitors against beta(2)m aggregation in dialysis-related amyloidosis. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, SEP 1 2020, vol. 38, no. 13, p. 3927-3941., Registrované v: WOS

16. [1.1] NWAGU, T.N. - AOYAGI, H. - OKOLO, B. - MONEKE, A. - YOSHIDA, S. Citraconylation and maleylation on the catalytic and thermodynamic properties of raw starch saccharifying amylase from Aspergillus carbonarius. In HELIYON. ISSN 2405-8440, JUL 2020, vol. 6, no. 7., Registrované v: WOS

17. [1.1] OAKLEY, S.S. - MAINA, M.B. - MARSHALL, K.E. - AL-HILALY, Y.K. - HARRINGTON, C.R. - WISCHIK, C.M. - SERPELL, L.C. Tau Filament Self-Assembly and Structure: Tau as a Therapeutic Target. In FRONTIERS IN NEUROLOGY. ISSN 1664-2295, NOV 12 2020, vol. 11., Registrované v: WOS
18. [1.1] PANG, W.C. - RAMLI, A.N.M. - HAMID, A.A.A. Comparative modelling studies of fruit bromelain using molecular dynamics simulation. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, MAY 16 2020, vol. 26, no. 6., Registrované v: WOS
19. [1.1] PEREIRA, G.R.C. - TAVARES, G.D.B. - DE FREITAS, M.C. - DE MESQUITA, J.F. In silico analysis of the tryptophan hydroxylase 2 (TPH2) protein variants related to psychiatric disorders. In PLOS ONE. ISSN 1932-6203, MAR 2 2020, vol. 15, no. 3., Registrované v: WOS
20. [1.1] PUTRA, W.E. - KHARISMA, V.D. - SUSANTO, H. The Exploration of Medicinal Plants'; Phytochemical Compounds as Potential Inhibitor Against Human alpha-3 Nicotinic Acetylcholine Receptors: The Insight from Computational Study. In INTERNATIONAL CONFERENCE ON LIFE SCIENCE AND TECHNOLOGY (ICOLIST). ISSN 0094-243X, 2020, vol. 2231., Registrované v: WOS
21. [1.1] REZAEIAN-MARJANI, L. - IMANI, M. - JALIANI, H.Z. Enhancement of Pharmaceutical Urate Oxidase Thermostability by Rational Design of De Novo Disulfide Bridge. In IRANIAN JOURNAL OF BIOTECHNOLOGY. ISSN 1728-3043, SUM 2020, vol. 18, no. 3, p. 1-11., Registrované v: WOS
22. [1.1] SANTOS, G.F.N. - CARVALHO, L.C. - OLIVEIRA, D.A.S. - DO REGO, D.G. - BUENO, M.A. - DE OLIVEIRA, B.G. The definitive challenge of forming uncommon pseudo-pi center dot center dot center dot H-F and C center dot center dot center dot H-F hydrogen bonds on cyclic and cubic nonpolar hydrocarbons. In JOURNAL OF PHYSICAL ORGANIC CHEMISTRY. ISSN 0894-3230, NOV 2020, vol. 33, no. 11., Registrované v: WOS
23. [1.1] SARANYA, V. - MARY, P.V. - VIJAYAKUMAR, S. - SHANKAR, R. The hazardous effects of the environmental toxic gases on amyloid beta-peptide aggregation: A theoretical perspective. In BIOPHYSICAL CHEMISTRY. ISSN 0301-4622, AUG 2020, vol. 263., Registrované v: WOS
24. [1.1] SCHMIDPETER, P.A.M. - RHEINBERGER, J. - NIMIGEAN, C.M. Prolyl isomerization controls activation kinetics of a cyclic nucleotide-gated ion channel. In NATURE COMMUNICATIONS. ISSN 2041-1723, DEC 16 2020, vol. 11, no. 1., Registrované v: WOS
25. [1.1] SCHWIETERS, C.D. - BERMEJO, G.A. - CLORE, G.M. A three-dimensional potential of mean force to improve backbone and sidechain hydrogen bond geometry in Xplor-NIH protein structure determination. In PROTEIN SCIENCE. ISSN 0961-8368, JAN 2020, vol. 29, no. 1, SI, p. 100-110., Registrované v: WOS
26. [1.1] SINGH, D. - SONI, S. - KHAN, S. - SARANGI, A.N. - YENNAMALLI, R.M. - AGGARWAL, R. - VEERAPU, N.S. Genome-Wide Mutagenesis of Hepatitis C Virus Reveals Ability of Genome To Overcome Detrimental Mutations. In JOURNAL OF VIROLOGY. ISSN 0022-538X, FEB 2020, vol. 94, no. 3., Registrované v: WOS
27. [1.1] SURESH, R. - SUBRAMANIAM, V. Molecular dynamics simulation involved in expounding the activation of adrenoceptors by sympathetic nervous system signaling. In STRUCTURAL CHEMISTRY. ISSN 1040-0400, OCT 2020, vol. 31, no. 5, p. 1869-1885., Registrované v: WOS
28. [1.1] SWAIN, L.L. - MISHRA, C. - SAHOO, S.S. - NAYAK, G. - PRADHAN, S.K. - MISHRA, S.R. - DIGE, M. An in vivo and in silico analysis of novel variation in TMBIM6 gene affecting cardiopulmonary traits of Indian goats. In JOURNAL OF THERMAL BIOLOGY. ISSN 0306-4565, FEB 2020, vol. 88., Registrované v: WOS
29. [1.1] TIMSON, D.J. The roles and applications of chaotropes and kosmotropes in industrial fermentation processes. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, JUN 8 2020, vol. 36, no. 6., Registrované v: WOS
30. [1.1] XU, S. - GUO, J.F. - HUANG, J.J. - ZHANG, G. - TAN, Y.H. Effect of Two Dental Restorative Materials on Adhesion and Molecular Structure of Oral Bacteria. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN 1533-4880, AUG 2020, vol. 20, no. 8, p. 4643-4647., Registrované v: WOS
31. [1.1] YANG, S.T. - GUO, Q. - WU, F.L. - CHU, Y.Q. - WANG, Y.H. - ZHOU, M.F. - DING, C.F. Investigation of noncovalent interactions between peptides with potential intrinsic sequence patterns by mass spectrometry. In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, MAY 30 2020, vol. 34, no. 10., Registrované v: WOS
32. [1.1] ZHANG, H.K. - ZHAO, Z. - TURLEY, A.T. - WANG, L. - MCGONIGAL, P.R. - TU, Y.J. - LI, Y.Y. - WANG, Z.Y. - KWOK, R.T.K. - LAM, J.W.Y. - TANG, B.Z. Aggregate Science: From Structures to Properties. In ADVANCED MATERIALS. ISSN 0935-9648, SEP 2020, vol. 32, no. 36., Registrované v: WOS
33. [1.1] ZHANG, X. - XU, N. - LI, J.L. - MA, Z.P. - WEI, L. - LIU, Q.D. - LIU, J. Engineering of L-glutamate oxidase as the whole-cell biocatalyst for the improvement of alpha-ketoglutarate

production. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, MAY 2020, vol. 136., Registrované v: WOS
34. [1.2] Bakare, O.O., Fadaka, A.O., Keyster, M., Pretorius, A. Structural and molecular docking analytical studies of the predicted ligand binding sites of cadherin-1 in cancer prognostics In Advances and Applications in Bioinformatics and Chemistry (2020) 13, pp. 1-9, Registrované v: SCOPUS
35. [1.2] Coimbra, J.T.S., Feghali, R., Ribeiro, R.P., Ramos, M.J., Fernandes, P.A. The importance of intramolecular hydrogen bonds on the translocation of the small drug piracetam through a lipid bilayer In RSC Advances 11(2020), pp. 899-908, Registrované v: SCOPUS
36. [1.2] Marjani, L.R., Imani, M., Jaliani, H.Z. Enhancement of pharmaceutical urate oxidase thermostability by rational design of de novo disulfide bridge In Iranian Journal of Biotechnology 18(2020),e2662, pp. 1-11, Registrované v: SCOPUS
37. [1.2] Peprah Addai F.,Wang T.,Kosiba A.A.,Lin F.,Zhen R.,Chen D.,Gu J.,Shi H.,Zhou Y. Integration of elastin-like polypeptide fusion system into the expression and purification of Lactobacillus sp. B164 ß-galactosidase for lactose hydrolysis In Bioresource TechnologyVolume 311 (2020) 123513, Registrované v: SCOPUS

ADCA208 PACE, C.N. - HORN, G. - HEBERT, E.J. - BECHERT, J. - SHAW, K. - URBÁNIKOVÁ, Ľubica - SCHOLTZ, J.M. - ŠEVČÍK, Jozef. Tyrosine hydrogen bonds make a large contribution to protein stability. In Journal of Molecular Biology, 2001, vol. 312, p. 393-404. ISSN 0022-2836.

Citácie:
1. [1.1] CONTRERAS, F. - THIELE, M.J. - PRAMANIK, S. - ROZHKOVA, A.M. - DOTSENKO, A.S. - ZOROV, I.N. - SINITSYN, A.P. - DAVARI, M.D. - SCHWANEBERG, U. KnowVolution of a GH5 Cellulase from Penicillium verruculosum to Improve Thermal Stability for Biomass Degradation. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, AUG 24 2020, vol. 8, no. 33, p. 12388-12399., Registrované v: WOS
2. [1.1] CUENO, M.E. - IGUCHI, K. - SUEMITSU, K. - HIRANO, M. - HANZAWA, K. - ISODA, T. - UENO, M. - IGUCHI, R. - OTANI, A. - IMAI, K. Structural insights into the potential changes in receptor binding site found in the 1998-2018 influenza B/Yamagata hemagglutinin: A putative correlation between receptor binding site structural variability and seasonal infection. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, JUN 2020, vol. 97., Registrované v: WOS
3. [1.1] DAS, S. - LIN, Y.H. - VERNON, R.M. - FORMAN-KAY, J.D. - CHAN, H.S. Comparative roles of charge, pi, and hydrophobic interactions in sequence-dependent phase separation of intrinsically disordered proteins. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, NOV 17 2020, vol. 117, no. 46, p. 28795-28805., Registrované v: WOS
4. [1.1] FARMAN, S. - JAVED, A. - ARSHIA - KHAN, K.M. - NASIR, A. - KHAN, A.U. - LODHI, M.A. - GUL, H. - KHAN, F. - ASAD, M. - PARVEEN, Z. Benzophenone Sulfonamide Derivatives as Interacting Partners and Inhibitors of Human P-glycoprotein. In ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY. ISSN 1871-5206, 2020, vol. 20, no. 14, p. 1739-1751., Registrované v: WOS
5. [1.1] MASAKARI, Y. - HARA, C. - ARAKI, Y. - GOMI, K. - ITO, K. Improvement in the thermal stability of Mucor prainii-derived FAD-dependent glucose dehydrogenase via protein chimerization. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, JAN 2020, vol. 132., Registrované v: WOS
6. [1.1] OCHBAUM, G. - CHETRIT, E. - BERKOVICH, R. - BITTON, R. Effect of the C-terminal amino acid of the peptide on the structure and mechanical properties of alginate-peptide hydrogels across length-scales. In SOFT MATTER. ISSN 1744-683X, JUL 14 2020, vol. 16, no. 26, p. 6155-6162., Registrované v: WOS

ADCA209 PACE, C.N. - HERBERT, E.J. - SHAW, K. - SCHELL, D. - BOTH, V. - KRAJČÍKOVÁ, Daniela - ŠEVČÍK, Jozef - WILSON, K.S. - DAUTER, Z. Conformational stability and thermodynamics of folding of ribonucleases Sa, Sa2, and Sa3. In Journal of Molecular Biology, 1998, vol. 279, p. 271-286. ISSN 0022-2836.

Citácie:
1. [1.1] SAMPEDRO, J.G. - RIVERA-MORAN, M.A. - URIBE-CARVAJAL, S. Kramers'; Theory and the Dependence of Enzyme Dynamics on Trehalose-Mediated Viscosity. In CATALYSTS. JUN 2020, vol. 10, no. 6., Registrované v: WOS
2. [1.2] BRIAND, Manon L. - BIKAKI, Maria - PUORGER, Chasper - CORVINI, Philippe F.X. - SHAHGALDIAN, Patrick. A proteolytic nanobiocatalyst with built-in disulphide reducing properties. In RSC Advances, 2020-12-10, 11, 2, pp. 810-816., Registrované v: SCOPUS

ADCA210 PANGALLO, Domenico - CHOVANOVÁ, Katarína - DRAHOVSKÁ, H. - DE LEO, F. - URZI, C. Application of fluorescence internal transcribed spacer-PCR (f-ITS) for the cluster analysis of bacteria isolated from air and deteriorated fresco surfaces. In International Biodeterioration &

Biodegradation, 2009, vol. 63, p. 868-872. (2008: 1.375 - IF, Q3 - JCR, 0.657 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0964-8305.

Citácie:

1. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

ADCA211 PANGALLO, Domenico - ŠIMONOVIČOVÁ, A. - CHOVANOVÁ, Katarína - FERIANC, Peter. Wooden art objects and the museum environment: identification and biodegradative characteristics of isolated microflora . In Letters in applied microbiology : international journal, 2007, vol. 45, no. 1, pp. 87-94. (2006: 1.593 - IF, Q3 - JCR, 0.792 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0266-8254.

Citácie:

1. [1.1] ABDEL-AZEEM, A.M. - BLANCHETTE, R.A. - HELD, B.W. Chaetomium as Potential Soft Rot Degrader of Woody and Papery Cultural Heritage. In RECENT DEVELOPMENTS ON GENUS CHAETOMIUM. ISSN 2198-7777, 2020, p. 395-419., Registrované v: WOS

2. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

3. [1.1] MASKOVA, L. - SMOLIK, J. - ONDRACEK, J. - ONDRACKOVA, L. - TRAVNICKOVA, T. - HAVLICA, J. Air quality in archives housed in historic buildings: Assessment of concentration of indoor particles of outdoor origin. In BUILDING AND ENVIRONMENT. ISSN 0360-1323, AUG 2020, vol. 180, 107024, Registrované v: WOS

4. [1.1] OMAR, A. - EL-WEKEEL, F. - TAHA, A. MICROBIAL DEGRADATION STUDY OF HISTORICAL BOOKS "BOOK DESCRIPTION DE L'; EGYPTE ANTIQUITIES TOME II EGYPT 30": A CASE STUDY. In EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES. ISSN 2090-4932, DEC 2020, vol. 10, no. 2, p. 123-134., Registrované v: WOS

5. [1.1] SABATINI, L. - PALMA, F. - GIORGI, L. - ANDREAZZO, L. - CAMPANA, R. Isolation and molecular identification of a strain belonging to the new speciesZalaria obscurafrom a deteriorated wooden artwork. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, SEP 2020, vol. 51, no. 3, p. 1241-1246., Registrované v: WOS

6. [1.1] WLAZLO, L. - KASELA, M. - NOWAKOWICZ-DEBEK, B. - OSSOWSKI, M. - MALM, A. Bioaerosols in an Underground Tourist Trail. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2020, vol. 29, no. 5, p. 3865-3872., Registrované v: WOS

ADCA212 PANGALLO, Domenico - DRAHOVSKÁ, H. - HARICHOVÁ, Janka - KARELOVÁ, Edita - CHOVANOVÁ, Katarína - FERIANC, Peter - TURŇA, Ján - TIMKO, Jozef. Assessment of environmental enterococci: bacterial antagonism, pathogenic capacity and antibiotic resistance. In Antonie van Leeuwenhoek, 2008, vol. 94, p. 555–562. (2007: 1.547 - IF, Q3 - JCR, 0.758 - SJR, Q1 - SJR). ISSN 0003-6072.

Citácie:

1. [1.1] GONDALIYA, S. - RAMANI, V. Isolation, Screening and Identification of Lactic Acid Bacteria from Human Milk. In BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS. ISSN 0974-6455, APR-JUN 2020, vol. 13, no. 2, p. 702-706., Registrované v: WOS

ADCA213 PANGALLO, Domenico - KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - ŠIMONOVIČOVÁ, A. Disclosing a crypt: Microbial diversity and degradation activity of the microflora isolated from funeral clothes of Cardinal Peter Pázmány. In Microbiological Research, 2013, vol. 168, p. 289-299. (2012: 1.993 - IF, Q3 - JCR, 0.786 - SJR, Q3 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2012.12.001

Citácie:

1. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

2. [1.1] KWASNA, H. - KARBOWSKA-BERENT, J. - BEHNKE-BOROWCZYK, J. Effect of Fungi on the Destruction of Historical Parchment and Paper Documents. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2020, vol. 29, no. 4, p. 2679-2695., Registrované v: WOS

3. [1.1] ROMANO, I. - GRANATA, G. - POLI, A. - FINORE, I. - NAPOLI, E. - GERACI, C. Inhibition of bacterial growth on marble stone of 18th century by treatment of nanoencapsulated essential oils. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, MAR 2020, vol. 148, 104909, Registrované v: WOS

4. [1.1] RYBITWA, D. - WAWRZYK, A. - WILCZYNSKI, S. - LOBACZ, M. Irradiation with medical diode laser as a new method of spot-elimination of microorganisms to preserve historical

cellulosic objects and human health. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, OCT 2020, vol. 154, 105055, Registrované v: WOS
5. [1.1] SHORE, P. - TUSOR, P. Peter Pazmany: Cardinal, Archbishop of Esztergom, Primate of Hungary. In JOURNAL OF JESUIT STUDIES. ISSN 2214-1324, JUL 2020, vol. 7, no. 4, p. 526-544., Registrované v: WOS
6. [1.1] TROVAO, J. - GIL, F. - CATARINO, L. - SOARES, F. - TIAGO, I. - PORTUGAL, A. Analysis of fungal deterioration phenomena in the first Portuguese King tomb using a multi-analytical approach. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, APR 2020, vol. 149, 104933, Registrované v: WOS
7. [1.1] YANG, W. - JONES, B.R. - ROSSI, G. - STEPHENS, N. - ARTHUR, I. - MERRITT, A. - REESE, S. - LANGNER, K.F.A. First case of a dog infected with Aspergillus (Phialosimplex) caninus in Australasia. In NEW ZEALAND VETERINARY JOURNAL. ISSN 0048-0169, JUL 3 2020, vol. 68, no. 4, p. 231-237., Registrované v: WOS

ADCA214 PANGALLO, Domenico - ŠAKOVÁ, Nikoleta - KOREŇOVÁ, J. - PUŠKÁROVÁ, Andrea - KRAKOVÁ, Lucia - VALIK, L. - KUCHTA, T. Microbial diversity and dynamics during the production of May bryndza cheese. In International journal of food microbiology, 2014, vol. 170, p. 38–43. (2013: 3.155 - IF, Q1 - JCR, 1.602 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2013.10.015

Citácie:
1. [1.1] MALTA, R.C.R. - RAMOS, G.L.D.A. - NASCIMENTO, J.D. From food to hospital: we need to talk about Acinetobacter spp.. In GERMS. ISSN 2248-2997, SEP 2020, vol. 10, no. 3, p. 210-217., Registrované v: WOS
2. [1.1] MARTINS, M.C.D. - FUSIEGER, A. - DE FREITAS, R. - VALENCE, F. - NERO, L.A. - CARVALHO, A.F. Novel sequence types of Lactococcus lactis subsp. lactis obtained from Brazilian dairy production environments. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, APR 2020, vol. 124, 109146, Registrované v: WOS
3. [1.1] PISANO, M.B. - ROSA, A. - PUTZU, D. - MARINCOLA, F.C. - MOSSA, V. - VIALE, S. - FADDA, M.E. - COSENTINO, S. Influence of Autochthonous Putative Probiotic Cultures on Microbiota, Lipid Components and Metabolome of Caciotta Cheese. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, OCT 21 2020, vol. 11, 583745, Registrované v: WOS
4. [1.1] SANCHEZ-JUANES, F. - TEIXEIRA-MARTIN, V. - GONZALEZ-BUITRAGO, J.M. - VELAZQUEZ, E. - FLORES-FELIX, J.D. Identification of Species and Subspecies of Lactic Acid Bacteria Present in Spanish Cheeses Type "Torta" by MALDI-TOF MS and pheS gene Analyses. In MICROORGANISMS. FEB 2020, vol. 8, no. 2, 301, Registrované v: WOS
5. [1.1] STEFANIKOVA, J. - DUCKOVA, V. - MISKEJE, M. - KACANIOVA, M. - CANIGOVA, M. The Impact of Different Factors on the Quality and Volatile Organic Compounds Profile in "Bryndza" Cheese. In FOODS. SEP 2020, vol. 9, no. 9, 1095, Registrované v: WOS
6. [1.1] ZHANG, H. - LU, S.Y. - REN, H.L. - ZHAO, K. - LI, Y.S. - GUAN, Y.T. - LI, H.X. - HU, P. - LIU, Z.S. Cytotoxicity and degradation product identification of thermally treated ceftiofur. In RSC ADVANCES. MAY 13 2020, vol. 10, no. 31, p. 18407-18417., Registrované v: WOS
7. [2.2] STEFANIKOVA, Jana - ARVAY, Julius - MIŠKEJE, Michal - KAČÁNIOVÁ, Miroslava. DETERMINATION OF VOLATILE ORGANIC COMPOUNDS IN SLOVAK BRYNDZA CHEESE BY THE ELECTRONIC NOSE AND THE HEADSPACE SOLID-PHASE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2020-01-01, 14, pp. 767-773., Registrované v: SCOPUS

ADCA215 PANGALLO, Domenico - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - ŠAKOVÁ, Nikoleta - GRIVALSKÝ, Tomáš - CHOVANOVÁ, Katarína - ZEMÁNKOVÁ, Milina. Biodeterioration of epoxy resin: a microbial survey through culture-independent and culture-dependent approaches. In Environmental microbiology, 2015, vol. 17, iss. 2, p. 462–479. (2014: 6.201 - IF, Q1 - JCR, 2.862 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.12523

Citácie:
1. [1.1] BREISTER, A.M. - IMAM, M.A. - ZHOU, Z.C. - AHSAN, M.A. - NOVERON, J.C. - ANANTHARAMAN, K. - PRABHAKAR, P. Soil microbiomes mediate degradation of vinyl ester-based polymer composites. In COMMUNICATIONS MATERIALS. DEC 18 2020, vol. 1, no. 1., Registrované v: WOS
2. [1.1] MA, W.X. - WU, F.S. - TIAN, T. - HE, D.P. - ZHANG, Q. - GU, J.D. - DUAN, Y.L. - MA, D.X. - WANG, W.F. - FENG, H.Y. Fungal diversity and its contribution to the biodeterioration of mural paintings in two 1700-year-old tombs of China. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2020, vol. 152., Registrované v: WOS
3. [1.1] SUN, M.L. - ZHANG, F.Y. - HUANG, X.D. - HAN, Y.Q. - JIANG, N. - CUI, B. - GUO, Q.L. - KONG, M.Y. - SONG, L. - PAN, J. Analysis of Microbial Community in the Archaeological

Ruins of Liangzhu City and Study on Protective Materials. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, APR 15 2020, vol. 11., Registrované v: WOS

ADCA216 PANGALLO, Domenico** - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - ŠOLTYS, Katarína - BUČKOVÁ, Mária - KOREŇOVÁ, J. - BUDIŠ, J. - KUCHTA, T. Transcription activity of lactic acid bacterial proteolysis-related genes during cheese maturation. In Food microbiology, 2019, vol. 82, p. 416-425. (2018: 4.089 - IF, Q1 - JCR, 1.402 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0740-0020. Dostupné na: https://doi.org/10.1016/j.fm.2019.03.015

Citácie:

1. [1.1] BABINI, E. - TANEYO-SAA, D.L. - TASSONI, A. - FERRI, M. - KRAFT, A. - GRAN-HEEDFELD, J. - BRETZ, K. - RODA, A. - MICHELINI, E. - CALABRETTA, M.M. - GUILLON, F. - TAGLIAZUCCHI, D. - MARTINI, S. - NISSEN, L. - GIANOTTI, A. Microbial Fermentation of Industrial Rice-Starch Byproduct as Valuable Source of Peptide Fractions with Health-Related Activity. In MICROORGANISMS. JUL 2020, vol. 8, no. 7., Registrované v: WOS

2. [1.1] CORFIELD, R. - MARTINEZ, K.D. - ALLIEVI, M.C. - SANTAGAPITA, P. - MAZZOBRE, F. - SCHEBOR, C. - PEREZ, O.E. Whey proteins-folic acid complexes: Formation, isolation and bioavailability in a Lactobacillus casei model. In FOOD STRUCTURE-NETHERLANDS. ISSN 2213-3291, OCT 2020, vol. 26., Registrované v: WOS

3. [1.1] MARTINI, S. - CONTE, A. - TAGLIAZUCCHI, D. Effect of ripening and in vitro digestion on the evolution and fate of bioactive peptides in Parmigiano-Reggiano cheese. In INTERNATIONAL DAIRY JOURNAL. ISSN 0958-6946, JUN 2020, vol. 105., Registrované v: WOS

4. [1.1] MATARAGAS, M. Investigation of genomic characteristics and carbohydrates'; metabolic activity of Lactococcus lactis subsp. lactis during ripening of a Swiss-type cheese. In FOOD MICROBIOLOGY. ISSN 0740-0020, MAY 2020, vol. 87., Registrované v: WOS

5. [1.1] PARENTE, E. - RICCIARDI, A. - ZOTTA, T. The microbiota of dairy milk: A review. In INTERNATIONAL DAIRY JOURNAL. ISSN 0958-6946, AUG 2020, vol. 107., Registrované v: WOS

6. [1.1] SOLIERI, L. - BALDACCINI, A. - MARTINI, S. - BIANCHI, A. - PIZZAMIGLIO, V. - TAGLIAZUCCHI, D. Peptide Profiling and Biological Activities of 12-Month Ripened Parmigiano Reggiano Cheese. In BIOLOGY-BASEL. JUL 2020, vol. 9, no. 7., Registrované v: WOS

ADCA217 PANGALLO, Domenico - CHOVANOVÁ, Katarína - ŠIMONOVIČOVÁ, Alexandra - FERIANC, Peter. Investigation of microbial community isolated from indoor artworks and air environment: identification, biodegradative abilities, and DNA typing. In Canadian journal of microbiology, 2009, vol. 55, p. 277-287. (2008: 1.102 - IF, Q3 - JCR, 0.543 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0008-4166.

Citácie:

1. [1.1] ABDEL-AZEEM, A.M. - BLANCHETTE, R.A. - HELD, B.W. Chaetomium as Potential Soft Rot Degrader of Woody and Papery Cultural Heritage. In RECENT DEVELOPMENTS ON GENUS CHAETOMIUM. ISSN 2198-7777, 2020, p. 395-419., Registrované v: WOS

2. [1.1] BONIEK, D. - BONADIO, L. - DAMACENO, Q.S. - DOS SANTOS, A.F.B. - STOIANOFF, M.A.D. Occurrence of Aspergillus niger strains on a polychrome cotton painting and their elimination by anoxic treatment. In CANADIAN JOURNAL OF MICROBIOLOGY. ISSN 0008-4166, OCT 2020, vol. 66, no. 10, p. 586-592., Registrované v: WOS

3. [1.1] COSTA, L.G. - PAES, J.B. - DE JESUS, W.C. - BROCCO, V.F. - PINHO, D.B. ISOLATION AND IDENTIFICATION OF FUNGI WITH POTENTIAL FOR BIOLOGICAL STUMP REMOVAL OF EUCALYPTUS SPP.. In JOURNAL OF TROPICAL FOREST SCIENCE. ISSN 0128-1283, 2020, vol. 32, no. 2, p. 154-160., Registrované v: WOS

4. [1.1] DIAS, L. - ROSADO, T. - CANDEIAS, A. - MIRAO, J. - CALDEIRA, A.T. A change in composition, a change in colour: The case of limestone sculptures from the Portuguese National Museum of Ancient Art. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAR-APR 2020, vol. 42, p. 255-262., Registrované v: WOS

5. [1.1] TROVAO, J. - TIAGO, I. - CATARINO, L. - GIL, F. - PORTUGAL, A. In vitro analyses of fungi and dolomitic limestone interactions: Bioreceptivity and biodeterioration assessment. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, NOV 2020, vol. 155., Registrované v: WOS

6. [1.1] WANG, Z.C. - CUI, J.W. - GAO, W.S. - YANG, Q. - CHEN, L.Z. - YANG, L.B. - SUN, Q. - ZHANG, H.R. Effects of rice straw structure on chaetoglobosin A production by Chaetomium globosum CGMCC 6882. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, MAY 1 2020, vol. 150, p. 1223-1228., Registrované v: WOS

7. [1.2] VARA, Saritha - KARNENA, Manoj Kumar - DASH, Swathi - SANJANA, R. Entomogenous fungi and the conservation of the cultural heritage. In Microbial Biotechnology Approaches to Monuments of Cultural Heritage, 2020-01-01, pp. 41-69., Registrované v:

SCOPUS

ADCA218 PANGALLO, Domenico - CHOVANOVÁ, Katarína - MAKOVÁ, A. Identification of animal skin of historical parchments by polymerase chain reaction (PCR)-based methods. In Journal of Archaeological Science, 2010, vol. 37, p. 1202-1206. (2009: 1.847 - IF, Q1 - JCR, 1.254 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0305-4403. Dostupné na: https://doi.org/10.1016/j.jas.2009.12.018

Citácie:

1. [1.1] PINAR, G. - TAFER, H. - SCHREINER, M. - MIKLAS, H. - STERFLINGER, K. Decoding the biological information contained in two ancient Slavonic parchment codices: an added historical value. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, AUG 2020, vol. 22, no. 8, p. 3218-3233., Registrované v: WOS

ADCA219 PANGALLO, Domenico - KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - ŠIMONOVIČOVÁ, A. - DE LEO, F. - URZI, C. Analysis and comparison of the microflora isolated from fresco surface and from surrounding air environment through molecular and biodegradative assays. In World journal of microbiology and biotechnology, 2012, vol. 28, p. 2015-2027. (2011: 1.532 - IF, Q3 - JCR, 0.609 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-012-1004-7

Citácie:

1. [1.1] MA, W.X. - WU, F.S. - TIAN, T. - HE, D.P. - ZHANG, Q. - GU, J.D. - DUAN, Y.L. - MA, D.X. - WANG, W.F. - FENG, H.Y. Fungal diversity and its contribution to the biodeterioration of mural paintings in two 1700-year-old tombs of China. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2020, vol. 152., Registrované v: WOS

2. [1.1] MARCO, A. - SANTOS, S. - CAETANO, J. - PINTADO, M. - VIEIRA, E. - MOREIRA, P.R. Basil essential oil as an alternative to commercial biocides against fungi associated with black stains in mural painting. In BUILDING AND ENVIRONMENT. ISSN 0360-1323, JAN 2020, vol. 167., Registrované v: WOS

3. [1.1] TROVAO, J. - GIL, F. - CATARINO, L. - SOARES, F. - TIAGO, I. - PORTUGAL, A. Analysis of fungal deterioration phenomena in the first Portuguese King tomb using a multi-analytical approach. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, APR 2020, vol. 149., Registrované v: WOS

4. [1.2] PARULEKAR-BERDE, Chanda - GHOBLE, Sachin S. - SALVI, Sagar P. - BERDE, Vikrant B. Microorganisms and their enzymes as biorestoration agents. In Microbial Biotechnology Approaches to Monuments of Cultural Heritage, 2020-01-01, pp. 71-86., Registrované v: SCOPUS

ADCA220 PASSARDI, F. - ZÁMOCKÝ, Marcel - FAVET, J. - JAKOPITSCH, C. - PENEL, C. - OBINGER, C. - DUNAND, C. Phylogenetic distribution of catalase-peroxidases: Are there patches of order in chaos?. In Gene, 2007, vol. 397, no. 1-2, pp. 101-113. (2006: 2.721 - IF, Q2 - JCR, 1.810 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0378-1119.

Citácie:

1. [1.1] LIU, Y. - ZHANG, J. - GAO, B.Y. Proteomic mechanisms for the stimulatory effects of antibiotics on Microcystis aeruginosa during hydrogen peroxide treatment. In CHEMOSPHERE. ISSN 0045-6535, MAY 2020, vol. 247., Registrované v: WOS

2. [1.1] LUSTY, M.W. - GOBLER, C.J. The Efficacy of Hydrogen Peroxide in Mitigating Cyanobacterial Blooms and Altering Microbial Communities across Four Lakes in NY, USA. In TOXINS. JUL 2020, vol. 12, no. 7., Registrované v: WOS

3. [1.1] PIEL, T. - SANDRINI, G. - WHITE, E. - XU, T.S. - SCHUURMANS, J.M. - HUISMAN, J. - VISSER, P.M. Suppressing Cyanobacteria with Hydrogen Peroxide Is More Effective at High Light Intensities. In TOXINS. JAN 2020, vol. 12, no. 1., Registrované v: WOS

4. [1.1] SCHIFFER, J.A. - SERVELLO, F.A. - HEATH, W.R. - AMRIT, F.R.G. - STUMBUR, S.V. - EDER, M. - MARTIN, O.M.F. - JOHNSEN, S.B. - STANLEY, J.A. - TAM, H. - BRENNAN, S.J. - MCGOWAN, N.G. - VOGELAAR, A.L. - XU, Y.Y. - SERKIN, W.T. - GHAZI, A. - STROUSTRUP, N. - APFELD, J. Caenorhabditis elegans processes sensory information to choose between freeloading and self-defense strategies. In ELIFE. ISSN 2050-084X, MAY 5 2020, vol. 9., Registrované v: WOS

5. [1.2] GULERI, Sakshi - TIWARI, Archana. Algae and ageing. In Microalgae Biotechnology for Food, Health and High Value Products, 2020-01-01, pp. 267-293., Registrované v: SCOPUS

ADCA221 PASSARDI, F. - THEILER, G. - ZÁMOCKÝ, Marcel - COSIO, C. - ROUHIER, N. - TEIXERA, F. - MARGIS-PINHEIRO, M. - IOANNIDIS, V. - PENEL, C. - FALQUET, L. - DUNAND, C. PeroxiBase: The peroxidase database. In Phytochemistry, 2007, vol. 68, no. 12, p. 1605-1611. (2006: 2.417 - IF, Q1 - JCR, 1.087 - SJR, Q1 - SJR). ISSN 0031-9422.

Citácie:

1. [1.1] BIAN, Y.L. - WANG, Y.H. - LIU, F.M. - LI, X.H. - WANG, B.N. The stability of four

organophosphorus insecticides in stored cucumber samples is affected by additives. In FOOD CHEMISTRY. ISSN 0308-8146, NOV 30 2020, vol. 331., Registrované v: WOS
2. [1.1] FAN, Y.P. - YU, X.M. - GUO, H.H. - WEI, J.M. - GUO, H.X. - ZHANG, L. - ZENG, F.C. Dynamic Transcriptome Analysis Reveals Uncharacterized Complex Regulatory Pathway Underlying Dose IBA-Induced Embryogenic Redifferentiation in Cotton. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2., Registrované v: WOS
3. [1.1] FRANCO, J.Y. - THAPA, S.P. - PANG, Z.Q. - GURUNG, F.B. - LIEBRAND, T.W.H. - STEVENS, D.M. - ANCONA, V. - WANG, N. - COAKER, G. Citrus Vascular Proteomics Highlights the Role of Peroxidases and Serine Proteases during Huanglongbing Disease Progression. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, DEC 2020, vol. 19, no. 12., Registrované v: WOS
4. [1.1] FU, N.N. - WANG, M. - WANG, L.X. - LUO, Y.Q. - REN, L.L. Genome Sequencing and Analysis of the Fungal Symbiont of Sirex noctilio, Amylostereum areolatum: Revealing the Biology of Fungus-Insect Mutualism. In MSPHERE. ISSN 2379-5042, MAY-JUN 2020, vol. 5, no. 3., Registrované v: WOS
5. [1.1] KHMELEVTSOVA, L.E. - SAZYKIN, I.S. - AZHOGINA, T.N. - SAZYKINA, M.A. Prokaryotic Peroxidases and Their Application in Biotechnology (Review). In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, JUL 2020, vol. 56, no. 4, p. 373-380., Registrované v: WOS
6. [1.1] KIDWAI, M. - AHMAD, I.Z. - CHAKRABARTY, D. Class III peroxidase: an indispensable enzyme for biotic/abiotic stress tolerance and a potent candidate for crop improvement. In PLANT CELL REPORTS. ISSN 0721-7714, NOV 2020, vol. 39, no. 11, p. 1381-1393., Registrované v: WOS
7. [1.1] KOLAHI, M. - KAZEMI, E.M. - YAZDI, M. - GOLDSON-BARNABY, A. Oxidative stress induced by cadmium in lettuce (Lactuca sativa Linn.): Oxidative stress indicators and prediction of their genes. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, JAN 2020, vol. 146, p. 71-89., Registrované v: WOS
8. [1.1] KRAHE, N.K. - BERGER, R.G. - ERSOY, F. A DyP-Type Peroxidase of Pleurotus sapidus with Alkene Cleaving Activity. In MOLECULES. APR 2020, vol. 25, no. 7., Registrované v: WOS
9. [1.1] LIENKAMP, A.C. - HEINE, T. - TISCHLER, D. Glutathione: A powerful but rare cofactor among Actinobacteria. In ADVANCES IN APPLIED MICROBIOLOGY, VOL 110. ISSN 0065-2164, 2020, vol. 110, p. 181-217., Registrované v: WOS
10. [1.1] MA, M. - WENDEHENNE, D. - PHILIPPOT, L. - HANSCH, R. - FLEMETAKIS, E. - HU, B. - RENNENBERG, H. Physiological significance of pedospheric nitric oxide for root growth, development and organismic interactions. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, OCT 2020, vol. 43, no. 10, p. 2336-2354., Registrované v: WOS
11. [1.1] MENG, Y.T. - LI, W.F. - PAN, X.L. - GADD, G.M.G. Applications of nanozymes in the environment. In ENVIRONMENTAL SCIENCE-NANO. ISSN 2051-8153, MAY 1 2020, vol. 7, no. 5, p. 1305-1318., Registrované v: WOS
12. [1.1] TWALA, P.P. - MITEMA, A. - BABURAM, C. - FETO, N.A. Breakthroughs in the discovery and use of different peroxidase isoforms of microbial origin. In AIMS MICROBIOLOGY. ISSN 2471-1888, 2020, vol. 6, no. 3, p. 330-349., Registrované v: WOS

ADCA222 PATASI, Csilla - GODOČÍKOVÁ, Jana - MICHLÍKOVÁ, Soňa - NIE, Y. - KÁČERIKOVÁ, Radka - KVÁLOVÁ, Katarína - RAUNSER, S. - FARKAŠOVSKÝ, Marian. The role of Bni5 in the regulation of septin higher-order structure formation. In Biological Chemistry, 2015, vol. 396, p. 1325-1337. (2014: 3.268 - IF, Q2 - JCR, 1.841 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1431-6730. Dostupné na: https://doi.org/10.1515/hsz-2015-0165

Citácie:
1. [1.1] MARQUARDT, J. - YAO, L.L. - OKADA, H. - SVITKINA, T. - BI, E. The LKB1-like Kinase Elm1 Controls Septin Hourglass Assembly and Stability by Regulating Filament Pairing. In CURRENT BIOLOGY. ISSN 0960-9822, JUN 22 2020, vol. 30, no. 12, p. 2386-+., Registrované v: WOS

ADCA223 PEY, A.L. - MAJTÁN, Tomáš - SANCHEZ RUIZ, J.M. - KRAUS, J.P. Human cystathionine β-synthase (CBS) contains two classes of binding sites forS-adenosylmethionine (SAM): complex regulation of CBS activity and stability by SAM. In Biochemical Journal, 2013, vol. 449, p. 109–121. (2012: 4.654 - IF, Q1 - JCR, 3.122 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0264-6021. Dostupné na: https://doi.org/10.1042/BJ20120731

Citácie:
1. [1.1] AL-SADEQ, D.W. - NASRALLAH, G.K. The Spectrum of Mutations of Homocystinuria in the MENA Region. In GENES. MAR 2020, vol. 11, no. 3., Registrované v: WOS
2. [1.1] CONTER, C. - FRUNCILLO, S. - FERNANDEZ-RODRIGUEZ, C. - MARTINEZ-CRUZ, L.A. - DOMINICI, P. - ASTEGNO, A. Cystathionine beta-synthase is involved in cysteine biosynthesis and-H2S generation in Toxoplasma gondii. In SCIENTIFIC REPORTS. ISSN 2045-

2322, SEP 4 2020, vol. 10, no. 1, 14657., Registrované v: WOS
3. [1.1] FANG, L. - ZHANG, X.Y. - YUAN, Q. - LI, D.D. - JIAO, Q.C. - YANG, Y.S. - ZHU, H.L. A novel indanone-derivated fluorescence sensor for Cysteine detection and biological imaging. In DYES AND PIGMENTS. ISSN 0143-7208, APR 2020, vol. 175, 108122., Registrované v: WOS
4. [1.1] FRANCIOSO, A. - CONRADO, A.B. - MOSCA, L. - FONTANA, M. Chemistry and Biochemistry of Sulfur Natural Compounds: Key Intermediates of Metabolism and Redox Biology. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, SEP 30 2020, vol. 2020, 8294158., Registrované v: WOS
5. [1.1] HE, W.L. - WU, G.Y. Metabolism of Amino Acids in the Brain and Their Roles in Regulating Food Intake. In AMINO ACIDS IN NUTRITION AND HEALTH: AMINO ACIDS IN SYSTEMS FUNCTION AND HEALTH. ISSN 0065-2598, 2020, vol. 1265, p. 167-185., Registrované v: WOS
6. [1.1] RAHMAN, A. - GLASGOW, J.N. - NADEEM, S. - REDDY, V.P. - SEVALKAR, R.R. - LANCASTER, Jr - STEYN, A.J.C. The Role of Host-Generated H2S in Microbial Pathogenesis: New Perspectives on Tuberculosis. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, NOV 10 2020, vol. 10, 586923., Registrované v: WOS
7. [1.1] ZHANG, J.Y. - BALSBAUGH, J.L. - GAO, S.H. - AHN, N.G. - KLINMAN, J.P. Hydrogen deuterium exchange defines catalytically linked regions of protein flexibility in the catechol O-methyltransferase reaction. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, MAY 19 2020, vol. 117, no. 20, p. 10797-10805., Registrované v: WOS

ADCA224 PFISTERER, K. - FORSTER, F. - PASTER, W. - SUPPER, V. - OHRADANOVA-REPIC, A. - ECKERSTORFER, P. - ZWIRZITZ, A. - DONNER, C. - BOULEGUE, C. - SCHILLER, H.B. - ONDROVIČOVÁ, Gabriela - ACUTO, O. - STOCKINGER, H. - LEKSA, Vladimír. The Late Endosomal Transporter CD222 Directs the Spatial Distribution and Activity of Lck. In Journal of Immunology, 2014, vol. 193, no. 6, p. 2718-2732. (2013: 5.362 - IF, Q1 - JCR, 3.844 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0022-1767. Dostupné na: https://doi.org/10.4049/jimmunol.1303349

Citácie:
1. [1.1] BOZSO, S.J. - KANG, J.J.H. - NAGENDRAN, J. The role of competing mechanisms on Lck regulation. In IMMUNOLOGIC RESEARCH. ISSN 0257-277X, OCT 2020, vol. 68, no. 5, p. 289-295., Registrované v: WOS
2. [1.1] GARCIA, E. - ISMAIL, S. Spatiotemporal Regulation of Signaling: Focus on T Cell Activation and the Immunological Synapse. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. MAY 2020, vol. 21, no. 9., Registrované v: WOS
3. [1.1] MASTROGIOVANNI, M. - JUZANS, M. - ALCOVER, A. - DI BARTOLO, V. Coordinating Cytoskeleton and Molecular Traffic in T Cell Migration, Activation, and Effector Functions. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, OCT 21 2020, vol. 8., Registrované v: WOS

ADCA225 PIETRZAK, K. - OTLEWSKA, A. - DANIELEWICZ, D. - DYBKA, K. - PANGALLO, Domenico - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - SCHOLTZ, V. - ĎUROVIČ, M. - SURMA-ŚLUSARSKA, B. - DEMNEROVA, K. - GUTAROWSKA, B. Disinfection of archival documents using thyme essential oil, silver nanoparticles misting and low temperature plasma. In Journal of cultural heritage, 2017, vol. 24, p. 69-77. (2016: 1.838 - IF, Q2 - JCR, 0.582 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1296-2074. Dostupné na: https://doi.org/10.1016/j.culher.2016.10.011

Citácie:
1. [1.1] CORTEA, I.M. - GHERVASE, L. - RATOIU, L. - RADVAN, R. Application of Spectroscopic and Hyperspectral Imaging Techniques for Rapid and Nondestructive Investigation of Jewish Ritual Parchment. In FRONTIERS IN MATERIALS. ISSN 2296-8016, DEC 18 2020, vol. 7, 601339, Registrované v: WOS
2. [1.1] NAPOLI, E. - SIRACUSA, L. - RUBERTO, G. New Tricks for Old Guys: Recent Developments in the Chemistry, Biochemistry, Applications and Exploitation of Selected Species from the Lamiaceae Family. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, MAR 2020, vol. 17, no. 3, e1900677, Registrované v: WOS
3. [1.1] POP, D.M. - TIMAR, M.C. - BELDEAN, E.C. - VARODI, A.M. Combined Testing Approach to Evaluate the Antifungal Efficiency of Clove (Eugenia caryophyllata) Essential Oil for Potential Application in Wood Conservation. In BIORESOURCES. ISSN 1930-2126, NOV 2020, vol. 15, no. 4, p. 9474-9489., Registrované v: WOS
4. [1.1] RYBITWA, D. - WAWRZYK, A. - WILCZYNSKI, S. - LOBACZ, M. Irradiation with medical diode laser as a new method of spot-elimination of microorganisms to preserve historical cellulosic objects and human health. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, OCT 2020, vol. 154, 105055, Registrované v: WOS

5. [1.1] SAADA, N.S. - ABDEL-MAKSOUD, G. - ABD EL-AZIZ, M.S. - YOUSSEF, A.M. Evaluation and utilization of lemongrass oil nanoemulsion for disinfection of documentary heritage based on parchment. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. OCT 2020, vol. 29, 101839, Registrované v: WOS
6. [1.1] SECAREANU, L.O. - MITRAN, C.E. - SANDULACHE, I.M. - LITE, M.C. - PERDUM, E. - IORDACHE, O.G. Validation method and proficiency test for the determination of free and hydrolysed formaldehyde. In INDUSTRIA TEXTILA. ISSN 1222-5347, 2020, vol. 71, no. 3, p. 259-265., Registrované v: WOS

ADCA226 PIKNOVA, L. - KACLIKOVA, E. - PANGALLO, Domenico - POLEK, Bystrík - KUCHTA, T. Quantification of Salmonella by 5';-Nuclease real-time polymerase chain reaction targeted to fimC gene. In Current Microbiology, 2005, vol. 50, p. 38-42. ISSN 0343-8651.

Citácie:
1. [1.1] DE MENDONCA, J.F.M. - VIEIRA, F.D. - FONSECA, I. - RIBEIRO, J.B. - ARCURI, E.F. - BORGES, M.D. - BORGES, C.A.V. - DE SA, J.F.O. - MARTINS, M.F. Detection of Viable Salmonella Typhimurium and Staphylococcus aureus in Coalho Cheese by Real-Time PCR. In FOOD SCIENCE AND TECHNOLOGY. ISSN 0101-2061, DEC 2019, vol. 39, p. 690-696., Registrované v: WOS
2. [1.1] YU, J. - XING, J.H. - ZHAN, X.J. - YANG, Z. - QI, J. - WEI, Y.X. - LIU, Y. Improvement of Loop-Mediated Isothermal Amplification Combined with Chromatographic Flow Dipstick Assay for Salmonella in Food Samples. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, JUL 2020, vol. 13, no. 7, p. 1398-1408., Registrované v: WOS

ADCA227 PIKNOVA, L. - PANGALLO, Domenico - KUCHTA, T. A novel real-time polymerase chain reaction (PCR) method for the detection of hazelnuts in food . In European Food Research and Technology, 2008, vol. 226, p. 1155-1158. (2007: 1.159 - IF, Q2 - JCR, 0.714 - SJR, Q1 - SJR). ISSN 1438-2377.

Citácie:
1. [1.1] CUADRADO, C. - SANCHIZ, A. - VICENTE, F. - BALLESTEROS, I. - LINACERO, R. Changes Induced by Pressure Processing on Immunoreactive Proteins of Tree Nuts. In MOLECULES. FEB 2 2020, vol. 25, no. 4, 954, Registrované v: WOS
2. [1.1] FELBINGER, C. - KUTZSCHE, F. - MONKEDIEK, S. - FISCHER, M. Genetic profiling: Differentiation and identification of hazelnut cultivars (Corylus avellana L.) using RAPD-PCR. In FOOD CONTROL. ISSN 0956-7135, JAN 2020, vol. 107, 106791, Registrované v: WOS
3. [1.1] JIE, J.Y. - HU, S.M. - LIU, W.W. - WEI, Q.Q. - HUANG, Y.Z. - YUAN, X.X. - REN, L.F. - TAN, M.Q. - YU, Y.D. Portable and Battery-Powered PCR Device for DNA Amplification and Fluorescence Detection. In SENSORS. MAY 2020, vol. 20, no. 9, 2627, Registrované v: WOS

ADCA228 PINAR, G. - KRAKOVÁ, Lucia - PANGALLO, Domenico - PIOMBINO-MASCALI, D. - MAIXNER, F. - ZINK, A. - STERFLINGER, K. Halophilic bacteria are colonizing the exhibition areas of the Capuchin Catacombs in Palermo, Italy. In Extremophiles, 2014, vol. 18, p. 677-691. (2013: 2.174 - IF, Q3 - JCR, 0.978 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-014-0649-6

Citácie:
1. [1.1] DZIURZYNSKI, M. - CIUCHCINSKI, K. - DYDA, M. - SZYCH, A. - DRABIK, P. - LAUDY, A. - DZIEWIT, L. Assessment of Bacterial Contamination of Air at the Museum of King John III';s Palace at Wilanow (Warsaw, Poland): Selection of an Optimal Growth Medium for Analyzing Airborne Bacteria Diversity. In APPLIED SCIENCES-BASEL. OCT 2020, vol. 10, no. 20, 7128, Registrované v: WOS
2. [1.1] MUKHTAR, S. - ZAREEN, M. - KHALIQ, Z. - MEHNAZ, S. - MALIK, K.A. Phylogenetic analysis of halophyte-associated rhizobacteria and effect of halotolerant and halophilic phosphate-solubilizing biofertilizers on maize growth under salinity stress conditions. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, FEB 2020, vol. 128, no. 2, p. 556-573., Registrované v: WOS
3. [1.1] OYEWUSI, H.A. - WAHAB, R.A. - HUYOP, F. Dehalogenase-producing halophiles and their potential role in bioremediation. In MARINE POLLUTION BULLETIN. ISSN 0025-326X, NOV 2020, vol. 160, 111603, Registrované v: WOS
4. [1.1] SALMA, M. - ABDULLA, M.K. - SAMINA, M. Osmoadaptation in halophilic bacteria and archaea. In RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, MAY 2020, vol. 15, no. 5, p. 154-161., Registrované v: WOS

ADCA229 PLANÝ, Matej - CZOLDEROVÁ, M. - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ŠOLTYS, Katarína - BUDIŠ, J. - SZEMEŠ, T. - MACKUĽAK, T. - WU, J.H. - PANGALLO, Domenico**. Biogas production: evaluation of the influence of K2FeO4 pretreatment of maple leaves (Acer platanoides) on microbial consortia composition. In Bioprocess and Biosystems Engineering, 2019, vol. 42, p. 1151–1163. (2018: 2.371 - IF, Q2 - JCR, 0.654 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1615-7591. Dostupné na:

https://doi.org/10.1007/s00449-019-02112-x

Citácie:

1. [1.1] SINGH, A. - NYLANDER, J.A.A. - SCHNURER, A. - BONGCAM-RUDLOFF, E. - MULLER, B. High-Throughput Sequencing and Unsupervised Analysis of Formyltetrahydrofolate Synthetase (FTHFS) Gene Amplicons to Estimate Acetogenic Community Structure. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, AUG 27 2020, vol. 11., Registrované v: WOS

ADCA230 POTUCKOVA, L. - KELEMEN, G.H. - FINDLAY, K.C. - LONETTO, M.A. - BUTTNER, M.J. - KORMANEC, Ján. A new RNA polymerase sigma factor, sigmaF, is required for the late stages of morphological differentiation in Streptomyces spp. In Molecular Microbiology, 1995, vol. 17, p. 37-48. ISSN 0950-382X.

Citácie:

1. [1.1] HE, H.C. - YUAN, S.Q. - HU, J.J. - CHEN, J.M. - RANG, J. - TANG, J.L. - LIU, Z.D. - XIA, Z.Y. - DING, X.Z. - HU, S.B. - XIA, L.Q. Effect of the TetR family transcriptional regulator Sp1418 on the global metabolic network of Saccharopolyspora pogona. In MICROBIAL CELL FACTORIES. FEB 11 2020, vol. 19, no. 1, 27, Registrované v: WOS

ADCA231 PROBST, O.C. - PUXBAUM, V. - SVOBODA, B. - LEKSA, Vladimír - STOCKINGER, H. - MIKULA, M. - MIKULITS, W. - MACH, L. The mannose 6-phosphate/insulin-like growth factor II receptor restricts the tumourigenicity and invasiveness of squamous cell carcinoma cells. In International journal of cancer, 2009, vol. 124, p. 2559-2567. (2008: 4.734 - IF, Q1 - JCR, 2.368 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0020-7136. Dostupné na internete: https://jlb.onlinelibrary.wiley.com/doi/epdf/10.1002/JLB.1AB0417-160RR

Citácie:

1. [1.1] BOCHEL, A.J. - WILLIAMS, C. - MCCOY, A.J. - HOPPE, H.J. - WINTER, A.J. - NICHOLLS, R.D. - HARLOS, K. - JONES, E.Y. - BERGER, I. - HASSAN, A.B. - CRUMP, M.P. Structure of the Human Cation-Independent Mannose 6-Phosphate/IGF2 Receptor Domains 7-11 Uncovers the Mannose 6-Phosphate Binding Site of Domain 9. In STRUCTURE. ISSN 0969-2126, DEC 1 2020, vol. 28, no. 12, p. 1300-+., Registrované v: WOS

2. [1.1] LIU, S.B. - ZHOU, L.B. - WANG, H.F. - LI, G. - XIE, Q.P. - HU, B. Loss of IGF2R indicates a poor prognosis and promotes cell proliferation and tumorigenesis in bladder cancer via AKT signaling pathway. In NEOPLASMA. ISSN 0028-2685, 2020, vol. 67, no. 1, p. 129-136., Registrované v: WOS

ADCA232 PUŠKÁROVÁ, Andrea - FERIANC, Peter - KORMANEC, Ján - HOMEROVÁ, Dagmar - FAREWELL, A. - NYSTROM, T. Regulation of yodA encoding a novel cadmium-induced protein in Escherichia coli. In Microbiology, 2002, vol. 146, p. 3801-3811. ISSN 1350-0872.

Citácie:

1. [1.1] CHATTERJEE, S. - KUMARI, S. - RATH, S. - PRIYADARSHANEE, M. - DAS, S. Diversity, structure and regulation of microbial metallothionein: metal resistance and possible applications in sequestration of toxic metals. In METALLOMICS. ISSN 1756-5901, NOV 1 2020, vol. 12, no. 11, p. 1637-1655., Registrované v: WOS

2. [1.1] MA, Y.C. - WANG, Y. - ZHANG, H. - SUN, W.D. - LI, Z.Z. - ZHANG, F.Y.C. - ZHANG, H.B. - CHEN, F.X. - ZHANG, H. - AN, J. - HE, C.H. Antimicrobial mechanism of strictinin isomers extracted from the root of Rosa roxburghii Tratt (Ci Li Gen). In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, MAR 25 2020, vol. 250., Registrované v: WOS

ADCA233 PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - HABALOVÁ, B. - KRAKOVÁ, Lucia - MAKOVÁ, A. - PANGALLO, Domenico. Microbial communities affecting albumen photography heritage: a methodological survey. In Scientific Reports, 2016, vol. 6, no. 20810 p. 1-14. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep20810

Citácie:

1. [1.1] ALI, M. EFFECT OF FIVE ESSENTIAL OILS AS GREEN DISINFECTANTS ON SELECTED PHOTOGRAPHIC PRINTS: EXPERIMENTAL STUDY. In CONSERVATION SCIENCE IN CULTURAL HERITAGE. ISSN 1974-4951, 2020, vol. 20, p. 79-97., Registrované v: WOS

2. [1.1] GUTAROWSKA, B. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS

3. [1.1] MENAZEA, A.A. - MOSTAFA, A.M. Ag doped CuO thin film prepared via pulsed laser deposition for 4-nitrophenol degradation. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. OCT 2020, vol. 8, no. 5., Registrované v: WOS

4. [1.1] PINAR, G. - SCLOCCHI, M.C. - PINZARI, F. - COLAIZZI, P. - GRAF, A. - SEBASTIANI, M.L. - STERFLINGER, K. The Microbiome of Leonardo da Vinci';s Drawings: A Bio-Archive of Their History. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 20 2020, vol. 11.,

Registrované v: WOS
5. [1.1] SZULC, J. - RUMAN, T. - KARBOWSKA-BERENT, J. - KOZIELEC, T. - GUTAROWSKA, B. Analyses of microorganisms and metabolites diversity on historic photographs using innovative methods. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 101-113., Registrované v: WOS
6. [1.1] TEPLA, B. - DEMNEROVA, K. - STIBOROVA, H. History and microbial biodeterioration of audiovisual materials. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, JUL-AUG 2020, vol. 44, p. 218-228., Registrované v: WOS

ADCA234 PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico - KOZICS, Katarína. The antibacterial and antifungal activity of six essential oils and their cyto/genotoxicity to human HEL 12469 cells. In Scientific Reports, 2017, vol. 7, no. 1, art. no. 8211. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-08673-9 (VEGA 2/0027/16 : Antioxidačné, antikarcinogénne a fotoprotektívne účinky levanduľového oleja in vitro)

Citácie:
1. [1.1] ABDALLAH, M. - ALI, M. - BELAL, A. - STANCO, F. - MOHAREB, F. - ALI, M. CONSERVATION OF THE HEINZ AND GEORGES LEICHTER DRY PLATE COLLECTION, EGYPT: CASE STUDY. In INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE. ISSN 2067-533X, APR-JUN 2020, vol. 11, no. 2, p. 463-484., Registrované v: WOS
2. [1.1] ACHAR, P.N. - QUYEN, P. - ADUKWU, E.C. - SHARMA, A. - MSIMANGA, H.Z. - NAGARAJA, H. - SREENIVASA, M.Y. Investigation of the Antifungal and Anti-Aflatoxigenic Potential of Plant-Based Essential Oils against Aspergillus flavus in Peanuts. In JOURNAL OF FUNGI. DEC 2020, vol. 6, no. 4., Registrované v: WOS
3. [1.1] BASAVEGOWDA, N. - PATRA, J.K. - BAEK, K.H. Essential Oils and Mono/bi/tri-Metallic Nanocomposites as Alternative Sources of Antimicrobial Agents to Combat Multidrug-Resistant Pathogenic Microorganisms: An Overview. In MOLECULES. MAR 1 2020, vol. 25, no. 5, 1058, Registrované v: WOS
4. [1.1] BUCUR, L. - IONUS, E. - MOISE, G. - GIRD, C. - SCHRODER, V. GC-MS ANALYSIS AND BIOACTIVE PROPERTIES OF ZINGIBERIS RHIZOMA ESSENTIAL OIL. In FARMACIA. ISSN 0014-8237, MAR-APR 2020, vol. 68, no. 2, p. 280-287., Registrované v: WOS
5. [1.1] BURGGRAF, A. - RIENTH, M. Origanum vulgare essential oil vapour impedes Botrytis cinerea development on grapevine (Vitis vinifera) fruit. In PHYTOPATHOLOGIA MEDITERRANEA. ISSN 0031-9465, SEP 2020, vol. 59, no. 2, p. 331-344., Registrované v: WOS
6. [1.1] CHUGUNOVA, E. - GAZIZOV, A. - SAZYKINA, M. - AKYLBEKOV, N. - GILDEBRANT, A. - SAZYKIN, I. - BURILOV, A. - APPAZOV, N. - KARCHAVA, S. - KLIMOVA, M. - VOLOSHINA, A. - SAPUNOVA, A. - GUMEROVA, S. - KHAMATGALIMOV, A. - GERASIMOVA, T. - DOBRYNIN, A. - GOGOLEVA, O. - GORSHKOV, V. Design of Novel 4-Aminobenzofuroxans and Evaluation of Their Antimicrobial and Anticancer Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2020, vol. 21, no. 21, 8292, Registrované v: WOS
7. [1.1] DRIOICHE, A. - AMINE, S. - BOUTAHIRI, S. - SAIDI, S. - AILLI, A. - RHAFOURI, R. - MAHJOUBI, M. - EL HILALI, F. - MOURADI, A. - ETO, B. - ZAIR, T. Antioxidant and Antimicrobial Activity of Essential Oils and Phenolic Extracts from the Aerial Parts of Ruta montana L. of the Middle Atlas Mountains-Morocco. In JOURNAL OF ESSENTIAL OIL BEARING PLANTS. ISSN 0972-060X, SEP 2 2020, vol. 23, no. 5, p. 902-917., Registrované v: WOS
8. [1.1] GODLEWSKA-ZYLKIEWICZ, B. - SWISLOCKA, R. - KALINOWSKA, M. - GOLONKO, A. - SWIDERSKI, G. - ARCISZEWSKA, Z. - NALEWAJKO-SIELIWONIUK, E. - NAUMOWICZ, M. - LEWANDOWSKI, W. Biologically Active Compounds of Plants: Structure-Related Antioxidant, Microbiological and Cytotoxic Activity of Selected Carboxylic Acids. In MATERIALS. OCT 2020, vol. 13, no. 19, 4454, Registrované v: WOS
9. [1.1] IZZO, L. - LUZ, C. - RITIENI, A. - MANES, J. - MECA, G. Whey fermented by using Lactobacillus plantarum strains: A promising approach to increase the shelf life of pita bread. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, JUL 2020, vol. 103, no. 7, p. 5906-5915., Registrované v: WOS
10. [1.1] MUSLIM, S.N. - HUSSIN, Z.S. Chemical compounds and synergistic antifungal properties of Thymus kotschanus essential oil plus ketoconazole against Candida spp. In GENE REPORTS. DEC 2020, vol. 21., Registrované v: WOS
11. [1.1] NIKAEEN, G. - YOUSEFINEJAD, S. - RAHMDEL, S. - SAMARI, F. - MAHDAVINIA, S. Central Composite Design for Optimizing the Biosynthesis of Silver Nanoparticles using Plantago major Extract and Investigating Antibacterial, Antifungal and Antioxidant Activity. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 15 2020, vol. 10, no. 1, 9642, Registrované v: WOS
12. [1.1] OLIVEIRA, G.D. - DOS SANTOS, V.M. - NASCIMENTO, S.T. - RODRIGUES, J.C.

Alternative sanitizers to paraformaldehyde for incubation of fertile eggs. In POULTRY SCIENCE. APR 2020, vol. 99, no. 4, p. 2001-2006., Registrované v: WOS
13. [1.1] RAVEAU, R. - FONTAINE, J. - SAHRAOUI, A.L.H. Essential Oils as Potential Alternative Biocontrol Products against Plant Pathogens and Weeds: A Review. In FOODS. MAR 2020, vol. 9, no. 3, 365, Registrované v: WOS
14. [1.1] VASILE, B.S. - BIRCA, A.C. - MUSAT, M.C. - HOLBAN, A.M. Wound Dressings Coated with Silver Nanoparticles and Essential Oils for The Management of Wound Infections. In MATERIALS. APR 2020, vol. 13, no. 7, 1682, Registrované v: WOS
15. [1.2] DING, Fuyuan - HU, Biao - LAN, Shuang - WANG, Hongxia. Flexographic and screen printing of carboxymethyl chitosan based edible inks for food packaging applications. In Food Packaging and Shelf Life. ISSN 22142894, 2020-12-01, 26, pp., Registrované v: SCOPUS

ADCA235 REGELSBERGER, G. - JAKOPITSCH, C. - PLASSER, L. - SCHWAIGER, H. - FURTMULLER, P.G. - PESCHEK, G.A. - ZÁMOCKÝ, Marcel - OBINGER, C. Occurrence and biochemistry of hydroperoxidases in oxygenic phototrophic prokaryotes (cyanobacteria). In Plant Physiology and Biochemistry, 2002, vol. 40, p. 479-490.

Citácie:
1. [1.1] DEDMAN, C.J. - NEWSON, G.C. - DAVIES, G.L. - CHRISTIE-OLEZA, J.A. Mechanisms of silver nanoparticle toxicity on the marine cyanobacterium Prochlorococcus under environmentally-relevant conditions. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, DEC 10 2020, vol. 747., Registrované v: WOS
2. [1.1] PENG, Y.Z. - ZHANG, Z. - KONG, Y. - LI, Y.T. - ZHOU, Y.Y. - SHI, X.D. - SHI, X.P. Effects of ultrasound on Microcystis aeruginosa cell destruction and release of intracellular organic matter. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, MAY 2020, vol. 63., Registrované v: WOS
3. [1.2] GULERI, Sakshi - TIWARI, Archana. Algae and ageing. In Microalgae Biotechnology for Food, Health and High Value Products, 2020-01-01, pp. 267-293., Registrované v: SCOPUS

ADCA236 REHÁKOVÁ, Alena - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - MINGYAR, Erik - KORMANEC, Ján. A gene determining a new member of the SARP family contributes to transcription of genes for the synthesis of the angucycline polyketide auricin in Streptomyces aureofaciens CCM 3239. In FEMS Microbiology Letters, 2013, vol. 346, no. 1, p. 45–55. (2012: 2.049 - IF, Q3 - JCR, 1.073 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/1574-6968.12200

Citácie:
1. [1.1] KRAUSE, J. - HANDAYANI, I. - BLIN, K. - KULIK, A. - MAST, Y. Disclosing the Potential of the SARP-Type Regulator PapR2 for the Activation of Antibiotic Gene Clusters in Streptomycetes. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, FEB 18 2020, vol. 11, 225., Registrované v: WOS

ADCA237 REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - ŠEVČÍKOVÁ, Beatrica - NUñEZ, L.E. - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - ŠKULTÉTY, Ľudovít - CORTÉS, J. - KORMANEC, Ján**. An efficient blue-white screening system for markerless deletions and stable integrations in Streptomyces chromosomes based on the blue pigment indigoidine biosynthetic gene bpsA. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 10231-10244. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-018-9393-7

Citácie:
1. [1.1] LIAO, Z.J. - SONG, Z.Q. - XU, J. - MA, Z. - BECHTHOLD, A. - YU, X.P. Identification of a gene fromStreptomyces rimosusM527 negatively affecting rimocidin biosynthesis and morphological differentiation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, DEC 2020, vol. 104, no. 23, p. 10191-10202., Registrované v: WOS
2. [1.1] WANG, Q.S. - XIE, F. - TONG, Y.J. - HABISCH, R. - YANG, B.W. - ZHANG, L.X. - MULLER, R. - FU, C.Z. Dual-function chromogenic screening-based CRISPR/Cas9 genome editing system for actinomycetes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, JAN 2020, vol. 104, no. 1, p. 225-239., Registrované v: WOS
3. [1.2] VICKERY, Christopher R. - MCCULLOCH, Ian P. - SONNENSCHEIN, Eva C. - BELD, Joris - NOEL, Joseph P. - BURKART, Michael D. Dissecting modular synthases through inhibition: A complementary chemical and genetic approach. In Bioorganic and Medicinal Chemistry Letters. ISSN 0960894X, 2020-01-15, 30, 2, pp., Registrované v: SCOPUS

ADCA238 REŽUCHOVÁ, Bronislava - MITICKÁ, H. - HOMEROVÁ, Dagmar - ROBERTS, M. - KORMANEC, Ján. New members of the Escherichia coli sigma(E) regulon identified by a two-plasmid system. In FEMS Microbiology Letters, 2003, vol. 225, p. 1-7. ISSN 0378-1097.

Citácie:
1. [1.1] HUANG, W.C. - LIN, C.Y. - HASHIMOTO, M. - WU, J.J. - WANG, M.C. - LIN, W.H. - CHEN, C.S. - TENG, C.H. The role of the bacterial protease Prc in the uropathogenesis of

extraintestinal pathogenic Escherichia coli. In JOURNAL OF BIOMEDICAL SCIENCE. ISSN 1021-7770, JAN 3 2020, vol. 27, no. 1., Registrované v: WOS
2. [1.1] SLOTBOOM, D.J. - ETTEMA, T.W. - NIJLAND, M. - THANGARATNARAJAH, C. Bacterial multi-solute transporters. In FEBS LETTERS. ISSN 0014-5793, DEC 2020, vol. 594, no. 23, SI, p. 3898-3907., Registrované v: WOS

ADCA239 ROWLEY, G. - ŠKOVIEROVÁ, Henrieta - STEVENSON, A. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - LEWIS, R.J. - SHERRY, A. - KORMANEC, Ján - ROBERTS, M. The periplasmic chaperone Skp is required for Salmonella Typhimurium infection in a murine Typhoid model. In Microbiology-SGM, 2011, vol. 157, p. 848-858. (2010: 2.957 - IF, Q2 - JCR, 1.804 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.046011-0

Citácie:
1. [1.1] MAS, G. - BURMANN, B.M. - SHARPE, T. - CLAUDI, B. - BUMANN, D. - HILLER, S. Regulation of chaperone function by coupled folding and oligomerization. In SCIENCE ADVANCES. ISSN 2375-2548, OCT 2020, vol. 6, no. 43, eabc5822, Registrované v: WOS
2. [1.1] SUNDARRAJ, R. - MOHANTY, N.N. - YOGISHARADHYA, R. - JEYAKANTHAN, J. - PRAJAPATI, A. - CHANDA, M.M. - SHIVACHANDRA, S.B. Comparative sequence, structure and functional analysis of Skp protein, a molecular chaperone among members of Pasteurellaceae and its homologues in Gram-negative bacteria. In META GENE. JUN 2020, vol. 24,100680, Registrované v: WOS

ADCA240 ROWLEY, G. - SPECTOR, M. - KORMANEC, Ján - ROBERTS, M. Pushing the envelope: extracytoplasmic stress responses in bacterial pathogens. In Nature Reviews Microbiology, 2006, vol. 4, p. 383-394. (2005: 13.989 - IF, Q1 - JCR, 5.965 - SJR, Q1 - SJR). ISSN 1740-1526.

Citácie:
1. [1.1] KUMAWAT, M. - KARUNA, I. - AHLAWAT, N. - AHLAWAT, S. Identification of Salmonella Typhimurium Peptidyl-prolyl cis-trans Isomerase B (PPIase B) and Assessment of their Role in the Protein Folding. In PROTEIN AND PEPTIDE LETTERS. ISSN 0929-8665, 2020, vol. 27, no. 8, p. 744-750., Registrované v: WOS
2. [1.1] LASTOVETSKY, O.A. - KRASNOVSKY, L.D. - QIN, X.T. - GASPAR, M.L. - GRYGANSKYI, A.P. - HUNTEMANN, M. - CLUM, A. - PILLAY, M. - PALANIAPPAN, K. - VARGHESE, N. - MIKHAILOVA, N. - STAMATIS, D. - REDDY, T.B.K. - DAUM, C. - SHAPIRO, N. - IVANOVA, N. - KYRPIDES, N. - WOYKE, T. - PAWLOWSKA, T.E. Molecular Dialogues between Early Divergent Fungi and Bacteria in an Antagonism versus a Mutualism. In MBIO. ISSN 2150-7511, SEP-OCT 2020, vol. 11, no. 5., Registrované v: WOS
3. [1.1] LEMMER, K.C. - ALBERGE, F. - MYERS, K.S. - DOHNALKOVA, A.C. - SCHAUB, R.E. - LENZ, J.D. - IMAM, S. - DILLARD, J.P. - NOGUERA, D.R. - DONOHUE, T.J. The NtrYX Two-Component System Regulates the Bacterial Cell Envelope. In MBIO. ISSN 2150-7511, MAY-JUN 2020, vol. 11, no. 3., Registrované v: WOS
4. [1.1] LUO, G. - SUN, Y.J. - HUANG, L.X. - SU, Y.Q. - ZHAO, L.M. - QIN, Y.X. - XU, X.J. - YAN, Q.P. Time-resolved dual RNA-seq of tissue uncovers Pseudomonas plecoglossicida key virulence genes in host-pathogen interaction with Epinephelus coioides. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, FEB 2020, vol. 22, no. 2, SI, p. 677-693., Registrované v: WOS
5. [1.1] MOHAMMED, M. - MEKALA, L.P. - CHINTALAPATI, S. - CHINTALAPATI, V.R. New insights into aniline toxicity: Aniline exposure triggers envelope stress and extracellular polymeric substance formation in Rubrivivax benzoatilyticus JA2. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, MAR 5 2020, vol. 385., Registrované v: WOS
6. [1.1] OTERO-ASMAN, J.R. - QUESADA, J.M. - JIM, K.K. - OCAMPO-SOSA, A. - CIVANTOS, C. - BITTER, W. - LLAMAS, M.A. The extracytoplasmic function sigma factor sigma(VreI) is active during infection and contributes to phosphate starvation-induced virulence of Pseudomonas aeruginosa. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 21 2020, vol. 10, no. 1., Registrované v: WOS
7. [1.1] SONG, W.T. - WANG, Y.M. - WANG, B. - YAO, Y.F. - WANG, W.G. - WU, J.H. - SHEN, Q. - LUO, W.J. - ZOU, Z.G. Super stable CsPbBr3@SiO2 tumor imaging reagent by stress-response encapsulation. In NANO RESEARCH. ISSN 1998-0124, MAR 2020, vol. 13, no. 3, p. 795-801., Registrované v: WOS
8. [1.1] YAN, K. - LIU, T. - DUAN, B.Z. - LIU, F. - CAO, M.M. - PENG, W. - DAI, Q. - CHEN, H.C. - YUAN, F.Y. - BEI, W.C. The CpxAR Two-Component System Contributes to Growth, Stress Resistance, and Virulence of Actinobacillus pleuropneumoniae by Upregulating wecA Transcription. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, MAY 21 2020, vol. 11., Registrované v: WOS
9. [1.1] ZHANG, Q.R. - ZHANG, C.D. Chronic Exposure to Low Concentration of Graphene Oxide Increases Bacterial Pathogenicity via the Envelope Stress Response. In ENVIRONMENTAL

SCIENCE & TECHNOLOGY. ISSN 0013-936X, OCT 6 2020, vol. 54, no. 19, p. 12412-12422., Registrované v: WOS

ADCA241 SÁDECKÁ, Jana - ŠAKOVÁ, Nikoleta - PANGALLO, Domenico - KOREŇOVÁ, J. - KOLEK, Emil - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - VALÍK, Ľubomír - KUCHTA, T. Microbial diversity and volatile odour-active compounds of barrelled ewes'; cheese as an intermediate product that determines the quality of winter bryndza cheese. In LWT - Food Science and Technology, 2016, vol. 70, p. 237–244. (2015: 2.711 - IF, Q1 - JCR, 1.290 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0023-6438. Dostupné na: https://doi.org/10.1016/j.lwt.2016.02.048

Citácie:

1. [1.1] ALTUN, R. - ESIM, N. - AYKUTOGLU, G. - BALTACI, M.O. - ADIGUZEL, A. - TASKIN, M. Production of linoleic acid-rich lipids in molasses-based medium by oleaginous fungus Galactomyces geotrichum TS61. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, JUL 2020, vol. 44, no. 7, e14518, Registrované v: WOS

2. [1.1] GUO, R.C. - YU, F.T. - WANG, C.H. - JIANG, H.R. - YU, L. - ZHAO, M.M. - LIU, X.L. Determination of the Volatiles in Fermented Bamboo Shoots by Head Space - Solid-Phase Micro Extraction (HS-SPME) with Gas Chromatography - Olfactory - Mass Spectrometry (GC-O-MS) and Aroma Extract Dilution Analysis (AEDA). In ANALYTICAL LETTERS. ISSN 0003-2719, JUL 16 2020, vol. 54, no. 7, p. 1162-1179., Registrované v: WOS

3. [1.1] KAMIMURA, B.A. - CABRAL, L. - NORONHA, M.F. - BAPTISTA, R.C. - NASCIMENTO, H.M. - SANT';ANA, A.S. Amplicon sequencing reveals the bacterial diversity in milk, dairy premises and Serra da Canastra artisanal cheeses produced by three different farms. In FOOD MICROBIOLOGY. ISSN 0740-0020, AUG 2020, vol. 89, 103453, Registrované v: WOS

4. [1.1] OSHIRO, S. - RAMALHO, M. - DURAES, P.C. - ANDRADE, R. - SILVA, K. - SILVERIO, F. - PINHO, G. p-Cresol in cheese: Is it a flavouring compound or chemical contaminant?. In FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT. ISSN 1944-0049, SEP 1 2020, vol. 37, no. 9, p. 1510-1519., Registrované v: WOS

5. [1.1] SAIDI, V. - SHEIKH-ZEINODDIN, M. - KOBARFARD, F. - SOLEIMANIAN-ZAD, S. - DOOST, A.S. Profiling of bioactive metabolites during the ripening of a semi-hard non-starter culture cheese to detect functional dietary neurotransmitters. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. SEP 2020, vol. 28, 101734, Registrované v: WOS

6. [1.1] STEFANIKOVA, J. - DUCKOVA, V. - MISKEJE, M. - KACANIOVA, M. - CANIGOVA, M. The Impact of Different Factors on the Quality and Volatile Organic Compounds Profile in "Bryndza" Cheese. In FOODS. SEP 2020, vol. 9, no. 9, 1195., Registrované v: WOS

7. [1.1] YANG, C.C. - ZHAO, F.Y. - HOU, Q.C. - WANG, J. - LI, M. - SUN, Z.H. PacBio sequencing reveals bacterial community diversity in cheeses collected from different regions. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, FEB 2020, vol. 103, no. 2, p. 1238-1249., Registrované v: WOS

8. [2.2] STEFANIKOVA, Jana - ARVAY, Julius - MIŠKEJE, Michal - KAČÁNIOVÁ, Miroslava. DETERMINATION OF VOLATILE ORGANIC COMPOUNDS IN SLOVAK BRYNDZA CHEESE BY THE ELECTRONIC NOSE AND THE HEADSPACE SOLID-PHASE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2020-01-01, 14, pp. 767-773., Registrované v: SCOPUS

ADCA242 SÁDECKÁ, Jana - KOLEK, Emil - PANGALLO, Domenico - VALÍK, Ľubomír - KUCHTA, T. Principal volatile odorants and dynamics of their formation during the production of May Bryndza cheese. In Food chemistry, 2014, vol. 150, p. 301–306. (2013: 3.259 - IF, Q1 - JCR, 1.548 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2013.10.163

Citácie:

1. [1.1] GUZMAN, J.L. - PERTINEZ, M.D. - SOLDEVILLA, H.G. - PEREZ-CACHO, P.R. - POLO, O.P. - ZARAZAGA, L.A. - RAMIREZ, C.A. Effect of Citrus By-product on Physicochemical Parameters, Sensory Analysis and Volatile Composition of Different Kinds of Cheese from Raw Goat Milk. In FOODS. OCT 2020, vol. 9, no. 10, 1420, Registrované v: WOS

2. [1.1] SACCHI, R. - MARRAZZO, A. - MASUCCI, F. - DI FRANCIA, A. - SERRAPICA, F. - GENOVESE, A. Effects of Inclusion of Fresh Forage in the Diet for Lactating Buffaloes on Volatile Organic Compounds of Milk and Mozzarella Cheese. In MOLECULES. MAR 2 2020, vol. 25, no. 6, 1332, Registrované v: WOS

3. [1.1] STEFANIKOVA, J. - DUCKOVA, V. - MISKEJE, M. - KACANIOVA, M. - CANIGOVA, M. The Impact of Different Factors on the Quality and Volatile Organic Compounds Profile in "Bryndza" Cheese. In FOODS. SEP 2020, vol. 9, no. 9, 1195, Registrované v: WOS

4. [1.1] TIAN, H.X. - SUN, X.F. - YU, H.Y. - AI, L.Z. - CHEN, C. Characterization of the key aroma compounds in Yunnan goat milk cake using a sensory-directed flavor analysis. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, NOV 2020, vol. 85, no. 11, p. 3981-3997.,

Registrované v: WOS
5. [1.1] VOBLIKOVA, T. - PERMYAKOV, A. - ROSTOVA, A. - MASYUTINA, G. - ELISEEVA, A. Influence of the maturation process on the sheep';s milk of Camembert cheese fatty acid profile change. In INTERNATIONAL APPLIED RESEARCH CONFERENCE BIOLOGICAL RESOURCES DEVELOPMENT AND ENVIRONMENTAL MANAGEMENT. ISSN 2413-0877, 2020, p. 696-705., Registrované v: WOS
6. [1.1] VOBLIKOVA, T. - PERMYAKOV, A. - ROSTOVA, A. - MASYUTINA, G. - ELISEEVA, A. Study of Fatty-acid Composition of Goat and Sheep Milk and Its Transformation in the Production of Yogurt. In INTERNATIONAL APPLIED RESEARCH CONFERENCE BIOLOGICAL RESOURCES DEVELOPMENT AND ENVIRONMENTAL MANAGEMENT. ISSN 2413-0877, 2020, p. 742-751., Registrované v: WOS
7. [2.2] STEFANIKOVA, Jana - ARVAY, Julius - MIŠKEJE, Michal - KAČÁNIOVÁ, Miroslava. DETERMINATION OF VOLATILE ORGANIC COMPOUNDS IN SLOVAK BRYNDZA CHEESE BY THE ELECTRONIC NOSE AND THE HEADSPACE SOLID-PHASE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2020-01-01, 14, pp. 767-773., Registrované v: SCOPUS

ADCA243 SARIAN, F.D. - JANEČEK, Štefan - PIJNING, T. - IHSANAWATI - NURACHMAN, Z. - RADJASA, O.K. - DIJKHUIZEN, L. - NATALIA, D. - VAN DER MAAREL, M.J. A new group of glycoside hydrolase family 13 α-amylases with an aberrant catalytic triad. In Scientific Reports, 2017, vol. 7, art. no. 44230. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep44230

Citácie:
1. [1.1] FAR, B.E. - DILMAGHANI, A. - KHOSROUSHAHI, A.Y. In Silico Study and Optimization of Bacillus megaterium alpha-Amylases Production Obtained from Honey Sources. In CURRENT MICROBIOLOGY. ISSN 0343-8651, OCT 2020, vol. 77, no. 10, p. 2593-2601., Registrované v: WOS
2. [1.1] GARCIA-CANO, I. - ROCHA-MENDOZA, D. - KOSMERL, E. - ZHANG, L. - JIMENEZ-FLORES, R. Technically relevant enzymes and proteins produced by LAB suitable for industrial and biological activity. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, FEB 2020, vol. 104, no. 4, p. 1401-1422., Registrované v: WOS
3. [1.1] VERMA, D.K. - VASUDEVA, G. - SIDHU, C. - PINNAKA, A.K. - PRASAD, S.E. - THAKUR, K.G. Biochemical and Taxonomic Characterization of Novel Haloarchaeal Strains and Purification of the Recombinant Halotolerant alpha-Amylase Discovered in the Isolate. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 1 2020, vol. 11, 2082, Registrované v: WOS

ADCA244 SCLOCCHI, M.C. - KRAKOVÁ, Lucia - PINZARI, F. - COLAIZZI, P. - BICCHIERI, M. - ŠAKOVÁ, Nikoleta - PANGALLO, Domenico. Microbial life and death in a foxing stain: a suggested mechanism of photographic prints defacement. In Microbial Ecology, 2017, vol. 73, p. 815–826. (2016: 3.630 - IF, Q1 - JCR, 1.325 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0095-3628. Dostupné na: https://doi.org/10.1007/s00248-016-0913-7

Citácie:
1. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS
2. [1.1] FIGUEIRA, F. - MATOS, M. - NUNES, A. - AFONSO, M. - ROCHA, A.C. - CAMPELO, J. - FERREIRA, T. Considerations about foxing stains in three paper collections ranging from the 16th to the 20th century. In CONSERVAR PATRIMONIO. ISSN 1646-043X, SEP 2020, no. 35, p. 45-57., Registrované v: WOS
3. [1.1] TEPLA, B. - DEMNEROVA, K. - STIBOROVA, H. History and microbial biodeterioration of audiovisual materials. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, JUL-AUG 2020, vol. 44, p. 218-228., Registrované v: WOS

ADCA245 SENN, M.M. - GIACHINO, P.M. - HOMEROVÁ, Dagmar - STEINHUBER, A. - STRASSNER, J. - KORMANEC, Ján - FLUCKIGER, U. - BERGER-BACHI, B. - BISCHOFF, M. Molecular analysis and organization of the sigmaB operon in Staphylococcus aureus. In Journal of Bacteriology, 2005, vol. 187, p. 8006-8019. (2004: 4.146 - IF). ISSN 0021-9193.

Citácie:
1. [1.1] BONILLA, C.Y. Generally Stressed Out Bacteria: Environmental Stress Response Mechanisms in Gram-Positive Bacteria. In INTEGRATIVE AND COMPARATIVE BIOLOGY. ISSN 1540-7063, JUL 2020, vol. 60, no. 1, p. 126-133., Registrované v: WOS
2. [1.1] LEE, J.M. - ZILM, P.S. - KIDD, S.P. Novel Research Models for Staphylococcus aureus Small Colony Variants (SCV) Development: Co-pathogenesis and Growth Rate. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, FEB 28 2020, vol. 11., Registrované v: WOS
3. [1.1] PETRIE, L.E. - LEONARD, A.C. - MURPHY, J. - COX, G. Development and validation of

a high-throughput whole cell assay to investigate Staphylococcus aureus adhesion to host ligands. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, DEC 4 2020, vol. 295, no. 49, p. 16700-16712., Registrované v: WOS
4. [1.1] POUDEL, S. - TSUNEMOTO, H. - SEIF, Y. - SASTRY, A.V. - SZUBIN, R. - XU, S.B. - MACHADO, H. - OLSON, C.A. - ANAND, A. - POGLIANO, J. - NIZET, V. - PALSSON, B.O. Revealing 29 sets of independently modulated genes in Staphylococcus aureus, their regulators, and role in key physiological response. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, JUL 21 2020, vol. 117, no. 29, p. 17228-17239., Registrované v: WOS
5. [1.1] SCHILCHER, K. - HORSWILL, A.R. Staphylococcal Biofilm Development: Structure, Regulation, and Treatment Strategies. In MICROBIOLOGY AND MOLECULAR BIOLOGY REVIEWS. ISSN 1092-2172, SEP 2020, vol. 84, no. 3., Registrované v: WOS
6. [1.1] SULIGOY, C.M. - DIAZ, R.E. - GEHRKE, A.K. - RING, N. - YEBRA, G. - ALVES, J. - GOMEZ, M.I. - WENDLER, S. - FITZGERALD, J.R. - TUCHSCHERR, L. - LOFFLER, B. - SORDELLI, D.O. - LLANA, M.N. - BUZZOLA, F.R. Acapsular Staphylococcus aureus with a non-functional agr regains capsule expression after passage through the bloodstream in a bacteremia mouse model. In SCIENTIFIC REPORTS. ISSN 2045-2322, AUG 24 2020, vol. 10, no. 1., Registrované v: WOS

ADCA246 SCHAEFER, L. - BECK, K.F. - RASLIK, I. - WALPEN, S. - MIHALIK, D. - MICEGOVA, Miroslava - MAČÁKOVÁ, Katarína - SCHONHERR, Elke - SEIDLER, D.G. - VARGA, G. - SCHAEFER, R.M. - KRESSE, Hans - PFEILSCHIFTER, J. Biglycan , a nitric oxide-regulated gene, affects adhesion, growth and survival of mesangial cells. In Journal of Biological Chemistry, 2003, vol. 278, no. 28, p. 26227-26237. (2002: 6.696 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] TURBEVILLE, H.R. - JOHNSON, A.C. - GARRETT, M.R. - DENT, E.L. - SASSER, J.M. Nitric oxide and oxidative stress pathways do not contribute to sex differences in renal injury and function in Dahl SS/Jr rats. In PHYSIOLOGICAL REPORTS. ISSN 2051-817X, JUL 2020, vol. 8, no. 13., Registrované v: WOS

ADCA247 SCHAEFER, L. - GRONE, Hermann-Josef - RASLIK, I. - ROBENEK, Horst - UGORČÁKOVÁ, Jana - BUDNY, S. - SCHAEFER, R.M. - KRESSEL, H. Small proteoglycans of normal adult human kidney: distinct expression patterns of decorin, biglycan, fibromodulin, and lumican. In Kidney International, 2000, vol. 58, p. 1557-1568. ISSN 0085-2538.

Citácie:

1. [1.1] LEE, J.Y. - PARK, S.J. - KIM, D.A. - LEE, S.H. - KOH, J.M. - KIM, B.J. Muscle-Derived Lumican Stimulates Bone Formation via Integrin alpha 2 beta 1 and the Downstream ERK Signal. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, NOV 6 2020, vol. 8, 565826., Registrované v: WOS
2. [1.1] SCURUCHI, M. - POTI, F. - RODRIGUEZ-CARRIO, J. - CAMPO, G.M. - MANDRAFFINO, G. Biglycan and atherosclerosis: Lessons from high cardiovascular risk conditions. In BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS. ISSN 1388-1981, FEB 2020, vol. 1865, no. 2, 158545., Registrované v: WOS
3. [1.1] VAN, J.A.D. - CLOTET-FREIXAS, S. - HAUSCHILD, A.C. - BATRUCH, I. - JURISICA, I. - ELIA, Y. - MAHMUD, F.H. - SOCHETT, E. - DIAMANDIS, E.P. - SCHOLEY, J.W. - KONVALINKA, A. Urinary proteomics links keratan sulfate degradation and lysosomal enzymes to early type 1 diabetes. In PLOS ONE. ISSN 1932-6203, MAY 26 2020, vol. 15, no. 5, e0233639., Registrované v: WOS
4. [1.1] XIAO, D.H. - LIANG, T.Z. - ZHUANG, Z. - HE, R.H. - REN, J.H. - JIANG, S.H. - ZHU, L. - WANG, K. - SHI, D.H. Lumican promotes joint fibrosis through TGF-beta signaling. In FEBS OPEN BIO. ISSN 2211-5463, NOV 2020, vol. 10, no. 11, p. 2478-2488., Registrované v: WOS

ADCA248 SCHAEFER, L. - RASLIK, Igor - GRONE, Hermann-Josef - SCHONHERR, Elke - MACÁKOVÁ, K. - UGORČÁKOVÁ, Jana - BUDNY, S. - SCHAEFER, R.M. - KRESSEL, H. Small proteoglycans in human diabetic nephropathy: Discrepancy between glomerular expression and protein accumulation of decorin, biglycan, lumican, and fibromodulin. In Faseb Journal, 2001, vol. 15, p. 559-561. (2000: 9.249 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0892-6638.

Citácie:

1. [1.1] FEARING, B.V. - SPEER, J.E. - JING, L.F. - KALATHIL, A. - KELLY, M.P. - BUCHOWSKI, J.M. - ZEBALA, L.P. - LUHMANN, S. - GUPTA, M.C. - SETTON, L.A. Verteporfin treatment controls morphology, phenotype, and global gene expression for cells of the human nucleus pulposus. In JOR SPINE. ISSN 2572-1143, DEC 2020, vol. 3, no. 4, SIe1111., Registrované v: WOS
2. [1.1] NADANAKA, S. - HASHIGUCHI, T. - KITAGAWA, H. Aberrant glycosaminoglycan biosynthesis by tumor suppressor EXTL2 deficiency promotes liver inflammation and

tumorigenesis through Toll-like 4 receptor signaling. In FASEB JOURNAL. ISSN 0892-6638, JUN 2020, vol. 34, no. 6, p. 8385-8401., Registrované v: WOS
3. [1.1] PESSENTHEINER, A.R. - DUCASA, G.M. - GORDTS, P.L.S.M. Proteoglycans in Obesity-Associated Metabolic Dysfunction and Meta-Inflammation. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, MAY 19 2020, vol. 11., Registrované v: WOS
4. [1.1] VAN, J.A.D. - CLOTET-FREIXAS, S. - HAUSCHILD, A.C. - BATRUCH, I. - JURISICA, I. - ELIA, Y. - MAHMUD, F.H. - SOCHETT, E. - DIAMANDIS, E.P. - SCHOLEY, J.W. - KONVALINKA, A. Urinary proteomics links keratan sulfate degradation and lysosomal enzymes to early type 1 diabetes. In PLOS ONE. ISSN 1932-6203, MAY 26 2020, vol. 15, no. 5, e0233639., Registrované v: WOS
5. [1.1] ZHENG, Y. - LU, P. - DENG, Y.Y. - WEN, L. - WANG, Y. - MA, X. - WANG, Z.X. - WU, L.L. - HONG, Q. - DUAN, S.W. - YIN, Z. - FU, B. - CAI, G.Y. - CHEN, X.M. - TANG, F.C. Single-Cell Transcriptomics Reveal Immune Mechanisms of the Onset and Progression of IgA Nephropathy. In CELL REPORTS. ISSN 2211-1247, DEC 22 2020, vol. 33, no. 12, 108525., Registrované v: WOS
6. [1.2] WU, Hao - LU, Zongshi - ZHANG, Liting - SUN, Fang - WEI, Xiao - CHEN, Xionghu - ZHU, Zhiming. Bioinformatics analysis of biomarkers and immune cell infiltration in diabetic kidney disease. In Chinese Journal of Diabetes Mellitus. ISSN 16745809, 2020-12-27, 12, 12, pp. 1006-1012., Registrované v: SCOPUS

ADCA249 SCHAEFER, L. - HAUSSER, H. - ALTENBURGER, M. - UGORČÁKOVÁ, Jana - AUGUST, C. - FISHER, L.W. - SCHAEFER, R.M. - KRESSEL, H. Decorin, biglycan and their endocytosis receptor in rat renal cortex. In Kidney International, 1998, vol. 54, p. 1529-1541. ISSN 0085-2538.

Citácie:
1. [1.1] HAN, K.H. - KIM, B. - JI, S.C. - KANG, H.G. - CHEONG, H.I. - CHO, J.Y. - HA, I.S. Mechanism of Chronic Kidney Disease Progression and Novel Biomarkers: A Metabolomic Analysis of Experimental Glomerulonephritis. In METABOLITES. APR 2020, vol. 10, no. 4., Registrované v: WOS

ADCA250 SCHAEFER, Liliana - MAČÁKOVÁ, Katarína - RASLIK, Igor - MICEGOVA, Miroslava - GRONE, Hermann-Josef - SCHONHERR, Elke - ROBENEK, Horst - ECHTERMEYER, Frank G. - GRÄSSEL, Susanne - BRUCKNER, Peter - SCHAEFER, R.M. - IOZZO, Renato V. - KRESSE, Hans. Absence of decorin adversely influences tubulointerstitial fibrosis of the obstructed kidney by enhanced apoptosis and increased inflammatory reaction. In American Journal of Pathology, 2002, vol. 160, no.3, p. 1181-1191.

Citácie:
1. [1.1] RESZEGI, A. - HORVATH, Z. - FEHER, H. - WICHMANN, B. - TATRAI, P. - KOVALSZKY, I. - BAGHY, K. Protective Role of Decorin in Primary Hepatocellular Carcinoma. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, MAY 12 2020, vol. 10, 645., Registrované v: WOS
2. [1.1] RESZEGI, A. - HORVATH, Z. - KARASZI, K. - REGOS, E. - POSTNIKOVA, V. - TATRAI, P. - KISS, A. - SCHAFF, Z. - KOVALSZKY, I. - BAGHY, K. The Protective Role of Decorin in Hepatic Metastasis of Colorectal Carcinoma. In BIOMOLECULES. AUG 2020, vol. 10, no. 8, 1199., Registrované v: WOS
3. [1.1] WADSTEIN, J. - THOM, E. - GADZHIGOROEVA, A. Integral Roles of Specific Proteoglycans in Hair Growth and Hair Loss: Mechanisms behind the Bioactivity of Proteoglycan Replacement Therapy with Nourkrin (R) with Marilex (R) in Pattern Hair Loss and Telogen Effluvium. In DERMATOLOGY RESEARCH AND PRACTICE. ISSN 1687-6105, MAY 5 2020, vol. 2020., Registrované v: WOS
4. [1.1] WYCZANSKA, M. - LANGE-SPERANDIO, B. DAMPs in Unilateral Ureteral Obstruction. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, OCT 7 2020, vol. 11., Registrované v: WOS

ADCA251 SCHILLER, H.B. - SZEKERES, A. - BINDER, B.R. - STOCKINGER, H. - LEKSA, Vladimír. Mannose 6-Phosphate/Insulin-like growth factor 2 receptor limits cell invasion by controlling alpha V beta 3 integrin expression and proteolytic processing of Urokinase-type plasminogen activator receptor. In Molecular Biology of the Cell, 2009, vol. 20, p. 745-756. (2008: 5.558 - IF, Q1 - JCR, 5.914 - SJR, Q1 - SJR).

Citácie:
1. [1.1] LIAN, S. - LI, S.N. - SAH, D.K. - KIM, N.H. - LAKSHMANAN, V.K. - JUNG, Y.D. Suppression of Urokinase-Type Plasminogen Activator Receptor by Docosahexaenoic Acid Mediated by Heme Oxygenase-1 in 12-O-Tetradecanoylphorbol-13-Acetate-Induced Human Endothelial Cells. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, NOV 26 2020, vol. 11., Registrované v: WOS

ADCA252 SCHILTER, H. - CANTEMIR-STONE, C.Z. - LEKSA, Vladimír - OHRADANOVA-REPIC, A. - FINDLAY, A. - DEODHAR, M. - STOCKINGER, H. - SONG, X. - MOLLOY, M. - MARSH, C.B. - JAROLIMEK, W. The mannose-6-phosphate analogue, PXS64, inhibits fibrosis via TGF-β1 pathway

in human lung fibroblasts. In Immunology Letters, 2015, vol. 165, p. 90–101. (2014: 2.512 - IF, Q3 - JCR, 1.207 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0165-2478. Dostupné na: https://doi.org/10.1016/j.imlet.2015.04.003

Citácie:

1. [1.1] CARLEO, A. - LANDI, C. - PRASSE, A. - BERGANTINI, L. - D';ALESSANDRO, M. - CAMELI, P. - JANCIAUSKIENE, S. - ROTTOLI, P. - BINI, L. - BARGAGLI, E. Proteomic characterization of idiopathic pulmonary fibrosis patients: stable versus acute exacerbation. In MONALDI ARCHIVES FOR CHEST DISEASE. ISSN 1122-0643, 2020, vol. 90, no. 2, p. 180-190., Registrované v: WOS

2. [1.1] LI, J.H. - YAO, Z.X. - XIONG, H. - CUI, H.M. - WANG, X. - ZHENG, W. - QIAN, Y. - FAN, C.Y. Extracellular vesicles from hydroxycamptothecin primed umbilical cord stem cells enhance anti-adhesion potential for treatment of tendon injury. In STEM CELL RESEARCH & THERAPY. DEC 25 2020, vol. 11, no. 1, 500., Registrované v: WOS

3. [1.1] YAP, J.M.G. - UEDA, T. - TAKEDA, N. - FUKUMITSU, K. - FUKUDA, S. - UEMURA, T. - TAJIRI, T. - OHKUBO, H. - MAENO, K. - ITO, Y. - KANEMITSU, Y. - NIIMI, A. An inflammatory stimulus sensitizes TRPA1 channel to increase cytokine release in human lung fibroblasts. In CYTOKINE. ISSN 1043-4666, MAY 2020, vol. 129, 155027., Registrované v: WOS

ADCA253 SCHULTHESS, B. - MEIER, S. - HOMEROVÁ, Dagmar - GOERKE, Ch. - WOLZ, Ch. - KORMANEC, Ján - BERGER-BAECCHI, B. - BISCHOFF, M. Functional characterization of the sigma(B)-dependent yabJ-spoVG operon in Staphylococcus aureus: role in Methicillin and Glycopeptide resistance. In Antimicrobial agents and chemotherapy, 2009, vol. 53, p. 1832-1839. (2008: 4.716 - IF, Q1 - JCR, 2.450 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0066-4804.

Citácie:

1. [1.1] LIAO, X.Y. - MA, Y.N. - DALIRI, E.B.M. - KOSEKI, S. - WEI, S. - LIU, D.H. - YE, X.Q. - CHEN, S.G. - DING, T. Interplay of antibiotic resistance and food-associated stress tolerance in foodborne pathogens. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, JAN 2020, vol. 95, p. 97-106., Registrované v: WOS

2. [1.1] RANGANATHAN, N. - JOHNSON, R. - EDWARDS, A.M. The general stress response of Staphylococcus aureus promotes tolerance of antibiotics and survival in whole human blood. In MICROBIOLOGY-SGM. ISSN 1350-0872, NOV 2020, vol. 166, no. 11, p. 1088-1094., Registrované v: WOS

3. [1.1] ZHU, Q. - LIU, B.H. - SUN, B.L. SpoVG Modulates Cell Aggregation in Staphylococcus aureus by Regulating sasC Expression and Extracellular DNA Release. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, AUG 2020, vol. 86, no. 15., Registrované v: WOS

4. [1.2] Huang, L., Gu, Y., Wu, C., Huang, J., Cheng, G. Bacterial stress response, physiological metabolism and antimicrobial tolerance and the control strategies | [细菌的应激反应和生理代谢与耐药性及其控制策略] In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology 36(2020), pp. 2287-2297, Registrované v: SCOPUS

ADCA254 SIRAJUDDIN, M. - FARKAŠOVSKÝ, Marian - HAUER, F. - KUHLMANN, D. - MACARA, I.G. - WEYAND, M. - STARK, H. - WITTINGHOFER, A. Structural insight into filament formation by mammalian septins. In Nature, 2007, vol. 449, p. 311-315. (2006: 26.681 - IF, Q1 - JCR, 9.702 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 0028-0836.

Citácie:

1. [1.1] ABBEY, M. - GAESTEL, M. - MENON, M.B. Septins: Active GTPases or just GTP-binding proteins?. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 55-62., Registrované v: WOS

2. [1.1] AUXIER, B. - DEE, J. - BERBEE, M.L. - MOMANY, M. Diversity of opisthokont septin proteins reveals structural constraints and conserved motifs. In BMC EVOLUTIONARY BIOLOGY. ISSN 1471-2148, JAN 7 2019, vol. 19., Registrované v: WOS

3. [1.1] BAUR, J.D. - ROSLER, R. - WIESE, S. - JOHNSSON, N. - GRONEMEYER, T. Dissecting the nucleotide binding properties of the septins from S. cerevisiae. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 45-54., Registrované v: WOS

4. [1.1] BROGNARA, G. - PEREIRA, H.D. - BRANDAO-NETO, J. - ARAUJO, A.P.U. - GARRATT, R.C. Revisiting SEPT7 and the slippage of beta-strands in the septin family. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, JUL 1 2019, vol. 207, no. 1, p. 67-73., Registrované v: WOS

5. [1.1] CANNON, K.S. - WOODS, B.L. - CRUTCHLEY, J.M. - GLADFELTER, A.S. An amphipathic helix enables septins to sense micrometer-scale membrane curvature. In JOURNAL OF CELL BIOLOGY. ISSN 0021-9525, APR 2019, vol. 218, no. 4, p. 1128-1137., Registrované v: WOS

6. [1.1] CARIM, S.C. - KECHAD, A. - HICKSON, G.R.X. Animal Cell Cytokinesis: The Rho-

Dependent Actomyosin-Anilloseptin Contractile Ring as a Membrane Microdomain Gathering, Compressing, and Sorting Machine. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, OCT 7 2020, vol. 8., Registrované v: WOS

7. [1.1] CASTRO, D.K.S.D. - DA SILVA, S.M.D. - PEREIRA, H.D. - MACEDO, J.N.A. - LEONARDO, D.A. - VALADARES, N.F. - KUMAGAI, P.S. - BRANDAO-NETO, J. - ARAUJO, A.P.U. - GARRATT, R.C. A complete compendium of crystal structures for the human SEPT3 subgroup reveals functional plasticity at a specific septin interface. In IUCRJ. ISSN 2052-2525, MAY 2020, vol. 7, 3, p. 462-479., Registrované v: WOS

8. [1.1] COLLINS, K.B. - KANG, H. - MATSCHE, J. - KLOMP, J.E. - REHMAN, J. - MALIK, A.B. - KARGINOV, A.V. Septin2 mediates podosome maturation and endothelial cell invasion associated with angiogenesis. In JOURNAL OF CELL BIOLOGY. ISSN 0021-9525, FEB 3 2020, vol. 219, no. 2., Registrované v: WOS

9. [1.1] DEB, B.K. - CHAKRABORTY, P. - GOPURAPPILLY, R. - HASAN, G. SEPT7 regulates Ca2+ entry through Orai channels in human neural progenitor cells and neurons. In CELL CALCIUM. ISSN 0143-4160, SEP 2020, vol. 90., Registrované v: WOS

10. [1.1] DEB, B.K. - HASAN, G. SEPT7-mediated regulation of Ca2+ entry through Orai channels requires other septin subunits. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 104-114., Registrované v: WOS

11. [1.1] DEROSE, B.T. - KELLEY, R.S. - RAVI, R. - KOKONA, B. - BELD, J. - SPILIOTIS, E.T. - PADRICK, S.B. Production and analysis of a mammalian septin hetero-octamer complex. In CYTOSKELETON. ISSN 1949-3584, NOV 2020, vol. 77, no. 11, p. 485-499., Registrované v: WOS

12. [1.1] JIAO, F. - CANNON, K.S. - LIN, Y.C. - GLADFELTER, A.S. - SCHEURING, S. The hierarchical assembly of septins revealed by high-speed AFM. In NATURE COMMUNICATIONS. ISSN 2041-1723, OCT 8 2020, vol. 11, no. 1., Registrované v: WOS

13. [1.1] JOHNSON, C.R. - STEINGESSER, M.G. - WEEMS, A.D. - KHAN, A. - GLADFELTER, A. - BERTIN, A. - MCMURRAY, M.A. Guanidine hydrochloride reactivates an ancient septin hetero-oligomer assembly pathway in budding yeast. In ELIFE. ISSN 2050-084X, JAN 28 2020, vol. 9., Registrované v: WOS

14. [1.1] KUMAGAI, P.S. - MARTINS, C.S. - SALES, E.M. - ROSA, H.V.D. - MENDONCA, D.C. - DAMALIO, J.C.P. - SPINOZZI, F. - ITRI, R. - ARAUJO, A.P.U. Correct partner makes the difference: Septin G-interface plays a critical role in amyloid formation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 15 2019, vol. 133, p. 428-435., Registrované v: WOS

15. [1.1] LAM, M. - CALVO, F. Regulation of mechanotransduction: Emerging roles for septins. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 115-122., Registrované v: WOS

16. [1.1] LI, H.D. - SAUCEDO-CUEVAS, L. - YUAN, L. - ROSS, D. - JOHANSEN, A. - SANDS, D. - STANLEY, V. - GUEMEZ-GAMBOA, A. - GREGOR, A. - EVANS, T. - CHEN, S.B. - TAN, L. - MOLINA, H. - SHEETS, N. - SHIRYAEV, S.A. - TERSKIKH, A.V. - GLADFELTER, A.S. - SHRESTA, S. - XU, Z.H. - GLEESON, J.G. Zika Virus Protease Cleavage of Host Protein Septin-2 Mediates Mitotic Defects in Neural Progenitors. In NEURON. ISSN 0896-6273, MAR 20 2019, vol. 101, no. 6, p. 1089-+., Registrované v: WOS

17. [1.1] LIU, M.H. - HEIMLICHER, M.B. - BACHLER, M. - IBENECHE-NNEWIHE, C.C. - FLORIN, E.L. - BRUNNER, D. - HOENGER, A. Glucose starvation triggers filamentous septin assemblies in an S-pombe septin-2 deletion mutant. In BIOLOGY OPEN. ISSN 2046-6390, JAN 2019, vol. 8, no. 1., Registrované v: WOS

18. [1.1] LOBATO-MARQUEZ, D. - KROKOWSKI, S. - SIRIANNI, A. - LARROUY-MAUMUS, G. - MOSTOWY, S. A requirement for septins and the autophagy receptor p62 in the proliferation of intracellular Shigella. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 163-172., Registrované v: WOS

19. [1.1] MARQUARDT, J. - CHEN, X. - BI, E.F. Architecture, remodeling, and functions of the septin cytoskeleton. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 7-14., Registrované v: WOS

20. [1.1] MCMURRAY, M.A. - THORNER, J. Turning it inside out: The organization of human septin heterooligomers. In CYTOSKELETON. ISSN 1949-3584, SEP 2019, vol. 76, no. 9-10, p. 449-456., Registrované v: WOS

21. [1.1] MELA, A. - MOMANY, M. Septin mutations and phenotypes in S. cerevisiae. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 33-44., Registrované v: WOS

22. [1.1] MENDONCA, D.C. - MACEDO, J.N. - GUIMARAES, S.L. - DA SILVA, F.L.B. - CASSAGO, A. - GARRATT, R.C. - PORTUGAL, R.V. - ARAUJO, A.P.U. A revised order of subunits in mammalian septin complexes. In CYTOSKELETON. ISSN 1949-3584, SEP 2019, vol. 76, no. 9-10, p. 457-466., Registrované v: WOS

23. [1.1] NAKOS, K. - RADLER, M.R. - SPILIOTIS, E.T. Septin 2/6/7 complexes tune microtubule

plus-end growth and EB1 binding in a concentration- and filament-dependent manner. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, NOV 1 2019, vol. 30, no. 23, p. 2913-2928., Registrované v: WOS
24. [1.1] NAKOS, K. - ROSENBERG, M. - SPILIOTIS, E.T. Regulation of microtubule plus end dynamics by septin 9. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 83-91., Registrované v: WOS
25. [1.1] NEUBAUER, K. - NEUBAUER, B. - SEIDL, M. - ZIEGER, B. Characterization of septin expression in normal and fibrotic kidneys. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 143-153., Registrované v: WOS
26. [1.1] NGO, H.V. - MOSTOWY, S. Role of septins in microbial infection. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, MAY 2019, vol. 132, no. 9., Registrované v: WOS
27. [1.1] OMRANE, M. - CAMARA, A.S. - TAVENEAU, C. - BENZOUBIR, N. - TUBIANA, T. - YU, J.C. - GUEROIS, R. - SAMUEL, D. - GOUD, B. - POUS, C. - BRESSANELLI, S. - GARRATT, R.C. - THIAM, A.R. - GASSAMA-DIAGNE, A. Septin 9 has Two Polybasic Domains Critical to Septin Filament Assembly and Golgi Integrity. In ISCIENCE. MAR 29 2019, vol. 13, p. 138-+., Registrované v: WOS
28. [1.1] ROBERTIN, S. - MOSTOWY, S. The history of septin biology and bacterial infection. In CELLULAR MICROBIOLOGY. ISSN 1462-5814, APR 2020, vol. 22, no. 4, SI., Registrované v: WOS
29. [1.1] ROSA, H.V.D. - LEONARDO, D.A. - BROGNARA, G. - BRANDAO-NETO, J. - PEREIRA, H.D. - ARAUJO, A.P.U. - GARRATT, R.C. Molecular Recognition at Septin Interfaces: The Switches Hold the Key. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, OCT 2 2020, vol. 432, no. 21, SI, p. 5784-5801., Registrované v: WOS
30. [1.1] SHEN, Y.R. - WANG, H.Y. - TSAI, Y.C. - KUO, Y.C. - WU, S.R. - WANG, C.Y. - KUO, P.L. The SEPT12 complex is required for the establishment of a functional sperm head-tail junction. In MOLECULAR HUMAN REPRODUCTION. JUN 2020, vol. 26, no. 6, p. 402-412., Registrované v: WOS
31. [1.1] SONG, K. - GRAS, C. - CAPIN, G. - GIMBER, N. - LEHMANN, M. - MOHD, S. - PUCHKOV, D. - RODIGER, M. - WILHELMI, I. - DAUMKE, O. - SCHMORANZER, J. - SCHURMANN, A. - KRAUSS, M. A SEPT1-based scaffold is required for Golgi integrity and function. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, FEB 2019, vol. 132, no. 3., Registrované v: WOS
32. [1.1] SPILIOTIS, E.T. - MCMURRAY, M.A. Masters of asymmetry - lessons and perspectives from 50 years of septins. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, OCT 1 2020, vol. 31, no. 21, p. 2289-2297., Registrované v: WOS
33. [1.1] VISSA, A. - GIULIANI, M. - FROESE, C.D. - KIM, M.S. - SOROOR, F. - KIM, P.K. - TRIMBLE, W.S. - YIP, C.M. Single-molecule localization microscopy of septin bundles in mammalian cells. In CYTOSKELETON. ISSN 1949-3584, JAN 2019, vol. 76, no. 1, SI, p. 63-72., Registrované v: WOS
34. [1.1] YEH, C.H. - WANG, Y.Y. - WEE, S.K. - CHEN, M.F. - CHIANG, H.S. - KUO, P.L. - LIN, Y.H. Testis-Specific SEPT12 Expression Affects SUN Protein Localization and is Involved in Mammalian Spermiogenesis. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, MAR 1 2019, vol. 20, no. 5., Registrované v: WOS
35. [1.1] ZERAIK, A.E. - FONTES, M.G. - DEMARCO, R. Biophysical Analysis of Schistosoma mansoni Septins. In SCHISTOSOMA MANSONI: Methods and Protocols. ISSN 1064-3745, 2020, vol. 2151, p. 197-210., Registrované v: WOS

ADCA255 SIRAJUDDIN, M. - FARKAŠOVSKÝ, Marian - ZENT, E. - WITTINGHOFER, A. GTP-induced conformational changes in septins and implications for function. In Proceedings of the National Academy of Sciences of the United States of America, 2009, vol. 106, no. 39, p. 16592-16597. (2008: 9.380 - IF, Q1 - JCR, 7.034 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0027-8424.

Citácie:

1. [1.1] CASTRO, D.K.S.D. - DA SILVA, S.M.D. - PEREIRA, H.D. - MACEDO, J.N.A. - LEONARDO, D.A. - VALADARES, N.F. - KUMAGAI, P.S. - BRANDAO-NETO, J. - ARAUJO, A.P.U. - GARRATT, R.C. A complete compendium of crystal structures for the human SEPT3 subgroup reveals functional plasticity at a specific septin interface. In IUCRJ. ISSN 2052-2525, MAY 2020, vol. 7, 3, p. 462-479., Registrované v: WOS
2. [1.1] DEROSE, B.T. - KELLEY, R.S. - RAVI, R. - KOKONA, B. - BELD, J. - SPILIOTIS, E.T. - PADRICK, S.B. Production and analysis of a mammalian septin hetero-octamer complex. In CYTOSKELETON. ISSN 1949-3584, NOV 2020, vol. 77, no. 11, p. 485-499., Registrované v: WOS
3. [1.1] JOHNSON, C.R. - STEINGESSER, M.G. - WEEMS, A.D. - KHAN, A. - GLADFELTER, A. - BERTIN, A. - MCMURRAY, M.A. Guanidine hydrochloride reactivates an ancient septin hetero-oligomer assembly pathway in budding yeast. In ELIFE. ISSN 2050-084X, JAN 28 2020, vol. 9.,

Registrované v: WOS
4. [1.1] MOORE, K. - MOORE, R. - WANG, C.T. - NORRIS, R.A. Tugging at the Heart Strings: The Septin Cytoskeleton in Heart Development and Disease. In JOURNAL OF CARDIOVASCULAR DEVELOPMENT AND DISEASE. MAR 2020, vol. 7, no. 1., Registrované v: WOS
5. [1.1] ROSA, H.V.D. - LEONARDO, D.A. - BROGNARA, G. - BRANDAO-NETO, J. - PEREIRA, H.D. - ARAUJO, A.P.U. - GARRATT, R.C. Molecular Recognition at Septin Interfaces: The Switches Hold the Key. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, OCT 2 2020, vol. 432, no. 21, SI, p. 5784-5801., Registrované v: WOS
6. [1.1] SHEN, Y.R. - WANG, H.Y. - TSAI, Y.C. - KUO, Y.C. - WU, S.R. - WANG, C.Y. - KUO, P.L. The SEPT12 complex is required for the establishment of a functional sperm head-tail junction. In MOLECULAR HUMAN REPRODUCTION. JUN 2020, vol. 26, no. 6, p. 402-412., Registrované v: WOS
7. [1.1] SPILIOTIS, E.T. - MCMURRAY, M.A. Masters of asymmetry - lessons and perspectives from 50 years of septins. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, OCT 1 2020, vol. 31, no. 21, p. 2289-2297., Registrované v: WOS
8. [1.1] TAVENEAU, C. - BLANC, R. - PEHAU-ARNAUDET, G. - DI CICCO, A. - BERTIN, A. Synergistic role of nucleotides and lipids for the self-assembly of Shs1 septin oligomers. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, JUL 2020, vol. 477, no. 14, p. 2697-2714., Registrované v: WOS
9. [1.1] ZERAIK, A.E. - FONTES, M.G. - DEMARCO, R. Biophysical Analysis of Schistosoma mansoni Septins. In SCHISTOSOMA MANSONI: Methods and Protocols. ISSN 1064-3745, 2020, vol. 2151, p. 197-210., Registrované v: WOS

ADCA256 SMITH, A.T. - MAJTÁN, Tomáš - FREEMAN, K.M. - SU, Y. - KRAUS, J.P. - BURSTYN, J.N. Cobalt cystathionine beta-synthase: a cobalt-substituted heme protein with a unique thiolate ligation motif. In Inorganic Chemistry, 2011, vol. 50, p. 4417-4427. (2010: 4.326 - IF, Q1 - JCR, 2.006 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0020-1669. Dostupné na: https://doi.org/10.1021/ic102586b

Citácie:
1. [1.1] EKANAYAKE, D.M. - FISCHER, A.A. - ELWOOD, M.E. - GUZEK, A.M. - LINDEMAN, S.V. - POPESCU, C.V. - FIEDLER, A.T. Nonheme iron-thiolate complexes as structural models of sulfoxide synthase active sites. In DALTON TRANSACTIONS. ISSN 1477-9226, DEC 28 2020, vol. 49, no. 48, p. 17745-17757., Registrované v: WOS

ADCA257 SOBOLEV, E. - ZOLOTAREV, S. - GIEWEKEMEYER, K. - BIELECKI, J. - OKAMOTO, K. - BARÁK, Imrich - MAIA, Filip R.N.C.**. Megahertz single-particle imaging at the European XFEL. In Communications Physics, 2020, vol. 3, no. 97. (2019: 4.684 - IF, Q1 - JCR, 2.310 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2399-3650. Dostupné na: https://doi.org/10.1038/s42005-020-0362-y

Citácie:
1. [1.1] ARNAL, R.D. - WOJTAS, D.H. - MILLANE, R.P. Progress towards imaging biological filaments using X-ray free-electron lasers. In 2020 35TH INTERNATIONAL CONFERENCE ON IMAGE AND VISION COMPUTING NEW ZEALAND (IVCNZ). ISSN 2151-2191, 2020, 9290623., Registrované v: WOS
2. [1.1] KOZLOV, A. - GUREYEV, T.E. - PAGANIN, D.M. - MARTIN, A.V. - CALEMAN, C. - QUINEY, H.M. Recovery of undamaged electron-density maps in the presence of damage-induced partial coherence in singe-particle imaging. In IUCRJ. ISSN 2052-2525, NOV 2020, vol. 7, 6, p. 1114-1123., Registrované v: WOS
3. [1.2] PETROVA, T. E. - LUNIN, V. Y. Determination of the Structure of Biological Macromolecular Particles Using X-Ray Lasers. Achievements and Prospects. In Mathematical Biology and Bioinformatics, 2020-01-01, 15, 2, pp. 195-234., Registrované v: SCOPUS

ADCA258 SOJKA, M. - VALACHOVÁ, Ivana - BUČEKOVÁ, Marcela - MAJTÁN, Juraj. Antibiofilm efficacy of honey and bee-derived defensin-1 on multispecies wound biofilm. In Journal of Medical Microbiology, 2016, vol. 65, p. 337-344. (2015: 2.269 - IF, Q3 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-2615. Dostupné na: https://doi.org/10.1099/jmm.0.000227 (VEGA 2/0007/14 : Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán)

Citácie:
1. [1.1] ALFIYAN, A. - RAFFIUDIN, R. - ASTUTI, R.I. Characterization of Exon and Intron of Defensin 1 Gene in Apis cerana and Apis dorsata. In MAKARA JOURNAL OF SCIENCE. ISSN 2339-1995, SEP 2019, vol. 23, no. 3, p. 125-136., Registrované v: WOS
2. [1.1] BROWN, E. - O';BRIEN, M. - GEORGES, K. - SUEPAUL, S. Physical characteristics and antimicrobial properties of Apis mellifera, Frieseomelitta nigra and Melipona favosa bee honeys from apiaries in Trinidad and Tobago. In BMC COMPLEMENTARY MEDICINE AND

THERAPIES. MAR 17 2020, vol. 20, no. 1., Registrované v: WOS
3. [1.1] COSTA, B.D. - SILVA, O.N. - FRANCO, O.L. Therapeutic Options for Treatment of Infections by Pathogenic Biofilms. In ANTIBIOTIC DRUG RESISTANCE. 2020, p. 503-531., Registrované v: WOS
4. [1.1] KADAM, S. - NADKARNI, S. - LELE, J. - SAKHALKAR, S. - MOKASHI, P. - KAUSHIK, K.S. Bioengineered Platforms for Chronic Wound Infection Studies: How Can We Make Them More Human-Relevant? (vol 7, 418, 2019). In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, FEB 4 2020, vol. 7, 449., Registrované v: WOS
5. [1.1] KIM, S.Y. - KANG, S.S. Anti-Biofilm Activities of Manuka Honey against Escherichia coli O157:H7. In FOOD SCIENCE OF ANIMAL RESOURCES. ISSN 2636-0772, 2020, vol. 40, no. 4, p. 668-674., Registrované v: WOS

ADCA259 SOLOVIČOVÁ, A. - CHRISTENSEN, T. - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - ŠEVČÍK, Jozef - SVENSSON, B. Structure-function relationships in glucoamylases encoded by variant Saccharomycopsis fibuligera genes. In European Journal of Biochemistry, 1999, vol. 264, p. 756-764. (1998: 3.249 - IF, karentované - CCC). (1999 - Current Contents).

Citácie:

1. [1.1] KROGERUS, K. - GIBSON, B. A re-evaluation of diastatic Saccharomyces cerevisiae strains and their role in brewing. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, MAY 2020, vol. 104, no. 9, p. 3745-3756., Registrované v: WOS

ADCA260 SOUDI, M. - ZÁMOCKÝ, Marcel - JAKOPITSCH, C. - FURTMULLER, P.G. - OBINGER, C. Molecular evolution, structure, and function of peroxidasins. In Chemistry & biodiversity, 2012, vol. 9, p. 1776-1793. (2011: 1.804 - IF, Q2 - JCR, 0.597 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1612-1872. Dostupné na: https://doi.org/10.1002/cbdv.201100438

Citácie:

1. [1.1] BATHISH, B. - PAUMANN-PAGE, M. - PATON, L.N. - KETTLE, A.J. - WINTERBOURN, C.C. Peroxidasin mediates bromination of tyrosine residues in the extracellular matrix. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, SEP 4 2020, vol. 295, no. 36, p. 12697-12705., Registrované v: WOS
2. [1.1] KAKANI, P. - GUPTA, L. - KUMAR, S. Heme-Peroxidase 2, a Peroxinectin-Like Gene, Regulates Bacterial Homeostasis inAnopheles stephensiMidgut. In FRONTIERS IN PHYSIOLOGY. ISSN 1664-042X, SEP 8 2020, vol. 11., Registrované v: WOS
3. [1.1] MA, C.P. - GUO, Z.M. - ZHANG, F.L. - SU, J.Y. Molecular identification, expression and function analysis of peroxidasin in Chilo suppressalis. In INSECT SCIENCE. ISSN 1672-9609, DEC 2020, vol. 27, no. 6, p. 1173-1185., Registrované v: WOS
4. [1.1] ROTENBERG, D. - BAUMANN, A.A. - BEN-MAHMOUD, S. - CHRISTIAENS, O. - DERMAUW, W. - IOANNIDIS, P. - JACOBS, C.G.C. - JENTZSCH, I.V.M. - OLIVER, J.E. - POELCHAU, M.F. - RAJARAPU, S.P. - SCHNEWEIS, D.J. - SNOECK, S. - TANING, C.N.T. - WEI, D. - GAMAGE, S.M.K.W. - HUGHES, D.S.T. - MURALI, S.C. - BAILEY, S.T. - BEJERMAN, N.E. - HOLMES, C.J. - JENNINGS, E.C. - ROSENDALE, A.J. - ROSSELOT, A. - HERVEY, K. - SCHNEWEIS, B.A. - CHENG, S. - CHILDERS, C. - SIMAO, F.A. - DIETZGEN, R.G. - CHAO, H. - DINH, H. - DODDAPANENI, H.V. - DUGAN, S. - HAN, Y. - LEE, S.D.L. - MUZNY, D.M. - QU, J.X. - WORLEY, K.C. - BENOIT, J.B. - FRIEDRICH, M. - JONES, J.W. - PANFILIO, K.A. - PARK, Y. - ROBERTSON, H.M. - SMAGGHE, G. - ULLMAN, D.E. - VAN DER ZEE, M. - VAN LEEUWEN, T. - VEENSTRA, J.A. - WATERHOUSE, R.M. - WEIRAUCH, M.T. - WERREN, J.H. - WHITFIELD, A.E. - ZDOBNOV, E.M. - GIBBS, R.A. - RICHARDS, S. Genome-enabled insights into the biology of thrips as crop pests. In BMC BIOLOGY. OCT 19 2020, vol. 18, no. 1., Registrované v: WOS

ADCA261 SPRUSANSKY, O. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - KORMANEC, Ján. Expression of the gap gene encoding glyceraldehyde-3-phosphate dehydrogenase of Streptomyces aureofaciens requires GapR, a member of the AraC/XylS family of transcriptional activators. In Microbiology, 2001, vol. 147, p. 1291. ISSN 1350-0872.

Citácie:

1. [1.1] ZHANG, B. - ZHOU, Y.T. - JIANG, S.X. - ZHANG, Y.H. - HUANG, K. - LIU, Z.Q. - ZHENG, Y.G. Amphotericin B biosynthesis in Streptomyces nodosus: quantitative analysis of metabolism via LC-MS/MS based metabolomics for rational design. In MICROBIAL CELL FACTORIES. JAN 31 2020, vol. 19, no. 1., Registrované v: WOS

ADCA262 STAHLBERG, H. - KUTEJOVÁ, Eva - SUDA, K. - WOLPENSINGER, B. - LUSTIG, A. - SCHATZ, G. - ENGEL, A. - SUZUKI, C.K. Mitochondrial Lon of Saccharomyces cerevisiae is a ring-shaped protease with seven flexible subunits. In Proceedings of the National Academy of Sciences of the United States of America, 1999, vol. 96, p. 6787-6790. ISSN 0027-8424.

Citácie:

1. [1.1] BOTOS, I. - LOUNTOS, G.T. - WU, W.M. - CHERRY, S. - GHIRLANDO, R. - KUDZHAEV, A.M. - ROTANOVA, T.V. - DE VAL, N. - TROPEA, J.E. - GUSTCHINA, A. -

WLODAWER, A. Cryo-EM structure of substrate-free E. coli Lon protease provides insights into the dynamics of Lon machinery. In CURRENT RESEARCH IN STRUCTURAL BIOLOGY. NOV 2019, vol. 1, p. 13-20., Registrované v: WOS
2. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS
3. [1.1] VOOS, W. - POLLECKER, K. The Mitochondrial Lon Protease: Novel Functions off the Beaten Track?. In BIOMOLECULES. FEB 2020, vol. 10, no. 2, 253, Registrované v: WOS

ADCA263 STAHLBERG, H. - KUTEJOVÁ, Eva - MUCHOVÁ, Katarína - GREGORINI, M. - LUSTIG, A. - MULLER, S.A. - OLIVIERI, V. - ENGEL, A. - WILKINSON, A.J. - BARÁK, Imrich. Oligomeric structure of the Bacillus subtilis cell division protein DivIVA determined by transmission electron microscopy. In Molecular Microbiology, 2004, vol. 52, p. 1281-1290. ISSN 0950-382X.

Citácie:
1. [1.1] CHOUKATE, K. - CHAUDHURI, B. Structural basis of self-assembly in the lipid-binding domain of mycobacterial polar growth factor Wag31. In IUCRJ. ISSN 2052-2525, JUL 2020, vol. 7, 4, p. 767-776., Registrované v: WOS
2. [1.1] CHOUKATE, K. - GUPTA, A. - BASU, B. - VIRK, K. - GANGULI, M. - CHAUDHURI, B. Higher order assembling of the mycobacterial polar growth factor DivIVA/Wag31. In JOURNAL OF STRUCTURAL BIOLOGY. ISSN 1047-8477, FEB 1 2020, vol. 209, no. 2., Registrované v: WOS
3. [1.1] SEXTON, D.L. - TOCHEVA, E.I. Ultrastructure of Exospore Formation inStreptomycesRevealed by Cryo-Electron Tomography. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 24 2020, vol. 11., Registrované v: WOS
4. [1.2] Zhang, M., Xue, C. Effects of cell division protein-encoding genes knockout on solvent formation and cell morphology in Clostridium acetobutylicum | [细胞分裂蛋白编码基因的敲除对丙酮丁醇梭菌溶剂合成与细胞形态的影响] In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology 36(2020), pp. 2092-2103, Registrované v: SCOPUS

ADCA264 STANO, Matej - KĽUČÁR, Ľuboš. phiGENOME: An integrative navigation throughout bacteriophage genomes. In Genomics, 2011, vol. 98, p. 376-380. (2010: 3.327 - IF, Q1 - JCR, 1.928 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0888-7543. Dostupné na: https://doi.org/10.1016/j.ygeno.2011.07.004

Citácie:
1. [1.1] OKARO, U. - GEORGE, S. - VALDES, S. - MACALUSO, K. - ANDERSON, B. A non-coding RNA controls transcription of a gene encoding a DNA binding protein that modulates biofilm development in Bartonella henselae. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, OCT 2020, vol. 147, 104272., Registrované v: WOS

ADCA265 STEFANKOVA, P. - PEREČKO, D. - BARÁK, Imrich - KOLLÁROVÁ, M. The thioredoxin system from Streptomyces coelicolor. In Journal of Basic Microbiology, 2006, vol. 46, p. 47 - 55. (2005: 1.000 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0233-111X.

Citácie:
1. [1.2] MAQBOOL, Illiyas - PONNIRESAN, Veeramani kandan - GOVINDASAMY, Kanimozhi - PRASAD, Nagarajan Rajendra. Understanding the survival mechanisms of Deinococcus radiodurans against oxidative stress by targeting thioredoxin reductase redox system. In Archives of Microbiology. ISSN 03028933, 2020-11-01, 202, 9, pp. 2355-2366., Registrované v: SCOPUS

ADCA266 STINGLEY, R.L. - BREZNA, B. - KHAN, A.A. - CERNIGLIA, C.E. Novel organization of genes in a phthalate degradation operon of Mycobacterium vanbaalenii PYR 1. In Microbiology, 2004, vol. 150, p. 3749-3761. ISSN 1350-0872.

Citácie:
1. [1.1] AUGELLETTI, F. - TREMBLAY, J. - AGATHOS, S.N. - JOUSSET, A. - STENUIT, B. Draft Whole-Genome Sequence of the Anthracene-Degrading Strain Mycolicibacterium frederiksbergense LB501T, Isolated from a Polycyclic Aromatic Hydrocarbon-Contaminated Soil. In MICROBIOLOGY RESOURCE ANNOUNCEMENTS. ISSN 2576-098X, OCT 2020, vol. 9, no. 43., Registrované v: WOS
2. [1.1] BOLL, M. - GEIGER, R. - JUNGHARE, M. - SCHINK, B. Microbial degradation of phthalates: biochemistry and environmental implications. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, FEB 2020, vol. 12, no. 1, p. 3-15., Registrované v: WOS
3. [1.1] LIU, T.F. - LI, J. - QIU, L.Q. - ZHANG, F.M. - LINHARDT, R.J. - ZHONG, W.H. Combined genomic and transcriptomic analysis of the dibutyl phthalate metabolic pathway inArthrobactersp. ZJUTW. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, DEC 2020, vol. 117, no. 12, p. 3712-3726., Registrované v: WOS

4. [1.1] PEREZ-PANTOJA, D. - DONOSO, R. - JUNCA, H. - GONZALEZ, B. - PIEPER, D.H. Phylogenomics of Aerobic Bacterial Degradation of Aromatics. In AEROBIC UTILIZATION OF HYDROCARBONS, OILS, AND LIPIDS. 2019, p. 689-736., Registrované v: WOS
5. [1.1] WRIGHT, R.J. - BOSCH, R. - GIBSON, M.I. - CHRISTIE-OLEZA, J.A. Plasticizer Degradation by Marine Bacterial Isolates: A Proteogenomic and Metabolomic Characterization. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, FEB 18 2020, vol. 54, no. 4, p. 2244-2256., Registrované v: WOS
6. [1.1] WU, Y.Q. - XU, Y. - ZHOU, N.Y. A newly defined dioxygenase system from Mycobacterium vanbaalenii PYR-1 endowed with an enhanced activity of dihydroxylation of high-molecular-weight polyaromatic hydrocarbons. In FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING. ISSN 2095-2201, FEB 2020, vol. 14, no. 1., Registrované v: WOS
7. [1.1] ZHANG, H.G. - ZHAO, C.J. - NA, H. Enhanced Biodegradation of Phthalic Acid Esters'; Derivatives by Plasticizer-Degrading Bacteria (Burkholderia cepacia,Archaeoglobus fulgidus,Pseudomonas aeruginosa) Using a Correction 3D-QSAR Model. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. AUG 2020, vol. 17, no. 15., Registrované v: WOS
8. [1.1] ZHANG, H.G. - ZHAO, C.J. - NA, H. Theoretical Design of Biodegradable Phthalic Acid Ester Derivatives in Marine and Freshwater Environments. In CHEMISTRYOPEN. ISSN 2191-1363, OCT 2020, vol. 9, no. 10, p. 1033-1045., Registrované v: WOS
9. [1.1] ZHANG, W.H. - SUN, R.H. - HOU, Y.L. - QIU, Y.L. - LI, Y. Investigation of the Potential Environmental Risks of Phthalate Derivatives Designed To Be Environmentally Friendly. In ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY. ISSN 0730-7268, MAY 2020, vol. 39, no. 6, p. 1138-1148., Registrované v: WOS
10. [1.2] ZHANG, Weirong - YAN, Kang - WANG, Haizhen - XU, Jianming. Bibliometric analysis of research progress on polycyclic aromatic hydrocarbons-degrading genes during 1983-2019. In Huanjing Kexue Xuebao/Acta Scientiae Circumstantiae. ISSN 02532468, 2020-03-06, 40, 3, pp. 1138-1148., Registrované v: SCOPUS

ADCA267 STOJNEV, T. - HARICHOVÁ, Janka - FERIANC, Peter - NYSTROM, T. Function of a novel cadmium-induced YodA protein in Escherichia coli. In Current Microbiology, 2007, vol. 55, no. 2, pp. 99-104. (2006: 1.007 - IF, Q4 - JCR, 0.581 - SJR, Q2 - SJR). ISSN 0343-8651.

Citácie:
1. [1.1] BELLOTTI, D. - ROWINSKA-ZYREK, M. - REMELLI, M. Novel insights into the metal binding ability of ZinT periplasmic protein from Escherichia coli and Salmonella enterica. In DALTON TRANSACTIONS. ISSN 1477-9226, JUL 21 2020, vol. 49, no. 27, p. 9393-9403., Registrované v: WOS
2. [1.1] MA, Y.C. - WANG, Y. - ZHANG, H. - SUN, W.D. - LI, Z.Z. - ZHANG, F.Y.C. - ZHANG, H.B. - CHEN, F.X. - ZHANG, H. - AN, J. - HE, C.H. Antimicrobial mechanism of strictinin isomers extracted from the root of Rosa roxburghii Tratt (Ci Li Gen). In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, MAR 25 2020, vol. 250., Registrované v: WOS

ADCA268 SUPPER, V. - SCHILLER, H.B. - PASTER, W. - FORSTER, F. - BOULEGUE, C. - MITULOVIC, G. - LEKSA, Vladimír - OHRADANOVA-REPIC, A. - MACHACEK, C. - SCHATZLMAIER, P. - ZLABINGER, G. - STOCKINGER, H. Association of CD147 and calcium exporter PMCA4 uncouples IL-2 expression from early TCR signaling. In Journal of immunology, 2016, vol. 196, p. 1387-1399. (2015: 4.985 - IF, Q1 - JCR, 3.571 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-1767. Dostupné na: https://doi.org/10.4049/jimmunol.1501889

Citácie:
1. [1.1] AFONSO, J. - SANTOS, L.L. - LONGATTO, A. - BALTAZAR, F. Competitive glucose metabolism as a target to boost bladder cancer immunotherapy. In NATURE REVIEWS UROLOGY. ISSN 1759-4812, FEB 2020, vol. 17, no. 2, p. 77-106., Registrované v: WOS
2. [1.1] HEGEDUS, L. - ZAMBO, B. - PASZTY, K. - PADANYI, R. - VARGA, K. - PENNISTON, J.T. - ENYEDI, A. Molecular Diversity of Plasma Membrane Ca2+ Transporting ATPases: Their Function Under Normal and Pathological Conditions. In CALCIUM SIGNALING, 2ND EDITION. ISSN 0065-2598, 2020, vol. 1131, p. 92-129., Registrované v: WOS

ADCA269 SZEP, Z. - MAJERNIKOVA, Alexandra - RYCHLY, B. - MAJTÁN, Juraj. Clinicopathological, immunohistochemical and embryological aspects of cutaneous ciliated Müllerian cyst. In Australasian Journal of Dermatology, 2018, vol. 59, iss. 4, p. e295-e296. (2017: 1.602 - IF, Q3 - JCR, 0.726 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0004-8380. Dostupné na: https://doi.org/10.1111/ajd.12826

Citácie:
1. [1.1] ZHANG, X. - GUO, J.G. - YANG, L. - ZHAO, Y.Y. - ZHANG, Y.J. - WANG, P. Ovarian Sclerosing Stromal Tumor and Mullerian Cyst in an 11-yr-old Girl: A Case Report and Review of the Literature. In INTERNATIONAL JOURNAL OF GYNECOLOGICAL PATHOLOGY. ISSN 0277-1691, MAR 2020, vol. 39, no. 2, p. E5-E10., Registrované v: WOS

ADCA270 ŠEDIVÁ, Mária - LAHO, Maroš - KOHÚTOVÁ, Lenka - MOJŽIŠOVÁ, Andrea - MAJTÁN, Juraj - KLAUDINY, Jaroslav**. 10-HDA, a major fatty acid of royal jelly, exhibitis pH dependent gowth-inhibitory activity against different strains of Paenibacillus larvae. In Molecules, 2018, vol. 23, iss. 12, art. no. 3236, 14 p. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules23123236

Citácie:

1. [1.1] AHMAD, S. - CAMPOS, M.G. - FRATINI, F. - ALTAYE, S.Z. - LI, J.K. New Insights into the Biological and Pharmaceutical Properties of Royal Jelly. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2 2020, vol. 21, no. 2, 382., Registrované v: WOS

2. [1.1] BALAN, A. - MOGA, M.A. - DIMA, L. - TOMA, S. - NECULAU, A.E. - ANASTASIU, C.V. Royal Jelly-A Traditional and Natural Remedy for Postmenopausal Symptoms and Aging-Related Pathologies. In MOLECULES. JUL 2020, vol. 25, no. 14, 3291., Registrované v: WOS

3. [1.1] DE LEON-DOOR, A.P. - PEREZ-ORDONEZ, G. - ROMO-CHACON, A. - RIOS-VELASCO, C. - ORNELAS-PAZ, J.D.J. - ZAMUDIO-FLORES, P.B. - ACOSTA-MUNIZ, C.H. PATHOGENESIS, EPIDEMIOLOGY AND VARIANTS OF MELISSOCOCCUS PLUTONIUS (EX WHITE), THE CAUSAL AGENT OF EUROPEAN FOULBROOD. In JOURNAL OF APICULTURAL SCIENCE. ISSN 1643-4439, DEC 2020, vol. 64, no. 2, p. 173-188., Registrované v: WOS

4. [1.1] MOLINE, M.D. - FERNANDEZ, N.J. - DAMIANI, N. - CHURIO, M.S. - GENDE, L.B. The effect of diet on Apis mellifera larval susceptibility to Paenibacillus larvae. In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, OCT 19 2020, vol. 59, no. 5, p. 817-824., Registrované v: WOS

5. [1.1] TASDOGAN, A.M. - KILIC, E.T. - PANCAR, Z. - OZDAL, M. A folk remedy: royal jelly improves lung capacity in smokers. In PROGRESS IN NUTRITION. ISSN 1129-8723, MAR 2020, vol. 22, no. 1, p. 297-303., Registrované v: WOS

ADCA271 ŠEVČÍK, Jozef - URBÁNIKOVÁ, Ľubica - DAUTER, Z. - WILSON, K.S. Recognition of RNase Sa by the inhibitor barstar: crystal structure of the complex at 1.7 angstrom resolution. In Acta Crystallographica D, 1998, vol. 54, p. 954-963. ISSN 0907-4449.

Citácie:

1. [1.1] HARTRAMPF, N. - SAEBI, A. - POSKUS, M. - GATES, Z.P. - CALLAHAN, A.J. - COWFER, A.E. - HANNA, S. - ANTILLA, S. - SCHISSEL, C.K. - QUARTARARO, A.J. - YE, X. - MIJALIS, A.J. - SIMON, M.D. - LOAS, A. - LIU, S. - JESSEN, C. - NIELSEN, T.E. - PENTELUTE, B.L. Synthesis of proteins by automated flow chemistry. In SCIENCE. ISSN 0036-8075, MAY 29 2020, vol. 368, no. 6494, p. 980-+., Registrované v: WOS

ADCA272 ŠEVČÍK, Jozef - SANISHVILI, R.G. - PAVLOVSKY, A.G. - POLYAKOV, K.M. Comparison of active-sites of some microbial ribonucleases - structural basis for guanylic specificity. In Trends in Biochemical Sciences, 1990, vol. 15, p. 158-162. ISSN 0968-0004.

Citácie:

1. [1.1] DUDKINA, E.V. - ULYANOVA, V.V. - ILINSKAYA, O.N. Supramolecular Organization As a Factor of Ribonuclease Cytotoxicity. In ACTA NATURAE. ISSN 2075-8251, JUL-SEP 2020, vol. 12, no. 3, p. 24-33., Registrované v: WOS

ADCA273 ŠEVČÍK, Jozef - DODSON, E.J. - DODSON, G.G. Determination and Restrained Least Squares Refinement of the Crystal Structure of ribonuclease Sa and its complex with 3';-guanylic acid at 1.8 angstrom resolution. In Acta Crystallographica Section B, 1991, vol. 47, p. 240-253. ISSN 0108-7681.

Citácie:

1. [1.1] ALNASIR, J.J. - SHANAHAN, H.P. The application of Hadoop in structural bioinformatics. In BRIEFINGS IN BIOINFORMATICS. ISSN 1467-5463, JAN 2020, vol. 21, no. 1, p. 96-105., Registrované v: WOS

ADCA274 ŠEVČÍK, Jozef - ŠKRABANA, Rostislav - DVORSKÝ, Radovan - CSÓKOVÁ, Natália - IQBAL, K. - NOVÁK, Michal. X-ray structure of the PHF core C-terminus: insight into the folding of the intrinsically disordered protein tau in Alzheimer';s disease. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 2007, vol. 581, p. 5872-5878. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR). ISSN 1873-3468.

Citácie:

1. [1.1] AHMAD, Waqar - SHABBIRI, Khadija - AHMAD, Ishtiaq. Prediction of human tau 3D structure, and interplay between O-beta-GlcNAc and phosphorylation modifications in Alzheimer';s disease: C. elegans as a suitable model to study these interactions in vivo. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2020, vol. 528, no. 3, pp. 466-472., Registrované v: WOS

2. [1.1] TSUCHIDA, Tomohiro - SUSA, Kouki - KIBIKI, Tomohiro - TSUCHIYA, Takahiro -

MIYAMOTO, Katsushiro - IN, Yasuko - MINOURA, Katsuhiko - TANIGUCHI, Taizo - ISHIDA, Toshimasa - TOMOO, Koji. Crystal structure of the human tau PHF core domain VQIINK complexed with the Fab domain of monoclonal antibody Tau2r3. In FEBS LETTERS. ISSN 0014-5793, 2020, vol. 594, no. 13, pp. 2140-2149., Registrované v: WOS

3. [1.1] UDDIN, M.S. - KABIR, M.T. - JAKARIA, M. - SOBARZO-SANCHEZ, E. - BARRETO, G.E. - PERVEEN, A. - HAFEEZ, A. - BIN-JUMAH, M.N. - ABDEL-DAIM, M.M. - ASHRAF, G.M. Exploring the Potential of Neuroproteomics in Alzheimer';s Disease. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2020, vol. 20, no. 25, p. 2263-2278., Registrované v: WOS

ADCA275 ŠEVČÍK, Jozef - HOSTINOVÁ, Eva - SOLOVIČOVÁ, A. - GAŠPERÍK, Juraj - DAUTER, Z. - WILSON, K.S. Structure of the complex of a yeast glucoamylase with acarbose reveals the presence of a raw starch binding site on catalytic domain. In FEBS Journal, 2006, vol. 273, p. 2161-2171. (2005: Q4 - JCR, 1.772 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 1742-464X.

Citácie:

1. [1.1] BOZIC, N. - ROZEBOOM, H.J. - LONCAR, N. - SLAVIC, M.S. - JANSSEN, D.B. - VUJCIC, Z. Characterization of the starch surface binding site on Bacillus paralicheniformis alpha-amylase. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, DEC 15 2020, vol. 165, A, p. 1529-1539., Registrované v: WOS

2. [1.1] LIU, X.Q. - ZANG, X.F. - YIN, X.L. - YANG, W.Y. - HUANG, J.X. - HUANG, J.P. - YU, C.X. - KE, C.S. - HONG, Y.P. Semi-synthesis of C28-modified triterpene acid derivatives from maslinic acid or corosolic acid as potential alpha-glucosidase inhibitors. In BIOORGANIC CHEMISTRY. ISSN 0045-2068, APR 2020, vol. 97., Registrované v: WOS

ADCA276 ŠEVČÍKOVÁ, Beatrica - BENADA, O. - KOFRONOVA, O. - KORMANEC, Ján. Stress-response sigma factor sigmaH is essential for morphological differentiation of Streptomyces coelicolor A3(2). In Archives of Microbiology, 2001, vol. 177, p. 98-106. ISSN 0302-8933.

Citácie:

1. [1.1] PAN, L. - CHEN, X.S. - WANG, K.F. - MAO, Z.G. Mechanisms of response to pH shock in microbial fermentation. In BIOPROCESS AND BIOSYSTEMS ENGINEERING. ISSN 1615-7591, MAR 2020, vol. 43, no. 3, p. 361-372., Registrované v: WOS

ADCA277 ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - KORMANEC, Ján. The anti-aAnti-sigma factor BldG is involved in activation of the stress response sigma factor SigH in Streptomyces coelicolor A3(2). In Journal of Bacteriology, 2010, vol. 192, p. 5674-5681. (2009: 3.940 - IF, 2.710 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.00828-10

Citácie:

1. [1.1] SUNNY, J.S. - MUKUND, N. - NATARAJAN, A. - SALEENA, L.M. Identifying heat shock response systems from the genomic assembly of Ureibacillus thermophilus LM102 using protein-protein interaction networks. In GENE. ISSN 0378-1119, MAY 5 2020, vol. 737, 144449, Registrované v: WOS

ADCA278 ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján. Differential production of two antibiotics of Streptomyces coelicolor A3(2), actinorhodin and undecylprodigiosin, upon salt stress conditions. In Archives of Microbiology, 2004, vol. 181, p. 384-389. ISSN 0302-8933.

Citácie:

1. [1.1] GACEM, M.A. - OULD-EL-HADJ-KHELIL, A. - BOUDJEMAA, B. - WINK, J. Antimicrobial and Antioxidant Effects of a Forest Actinobacterium V-002 as New Producer of Spectinabilin, Undecylprodigiosin and Metacycloprodigiosin. In CURRENT MICROBIOLOGY. ISSN 0343-8651, OCT 2020, vol. 77, no. 10, p. 2575-2583., Registrované v: WOS

2. [1.1] PROTASOV, E.S. - AXENOV-GRIBANOV, D.V. - SHATILINA, Z.M. - TIMOFEYEV, M.A. - LANE, A.L. Freshwater Actinobacteria from sediments of the deep and ancient Lake Baikal (Russia) and their genetic potential as producers of secondary metabolites. In AQUATIC MICROBIAL ECOLOGY. ISSN 0948-3055, 2020, vol. 84, p. 1-14., Registrované v: WOS

ADCA279 ŠIMONOVIČOVÁ, A. - KRAKOVÁ, Lucia - PANGALLO, Domenico - MAJOROŠOVÁ, M. - PIECKOVÁ, E. - BODORÍKOVÁ, Silvia - DÖRNHOFEROVÁ, M. Fungi on mummified human remains and in the indoor air in the Kuffner family crypt in Sládkovičovo (Slovakia). In International Biodeterioration & Biodegradation, 2015, vol. 99, p. 157–164. (2014: 2.131 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2014.12.011

Citácie:

1. [1.1] TROVAO, J. - GIL, F. - CATARINO, L. - SOARES, F. - TIAGO, I. - PORTUGAL, A. Analysis of fungal deterioration phenomena in the first Portuguese King tomb using a multi-analytical approach. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, APR 2020, vol. 149, 104933, Registrované v: WOS

ADCA280 ŠIMONOVIČOVÁ, A. - KRAKOVÁ, Lucia - PAUDITŠOVÁ, E. - PANGALLO, Domenico**. Occurrence and diversity of cultivable autochthonous microscopic fungi in substrates of old environmental loads from mining activities in Slovakia. In Ecotoxicology and environmental safety, 2019, vol. 172, p. 194-202. (2018: 4.527 - IF, Q1 - JCR, 1.174 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0147-6513. Dostupné na: https://doi.org/10.1016/j.ecoenv.2019.01.064

Citácie:

1. [1.1] BOHMER, M. - OZDIN, D. - RACKO, M. - LICHVAR, M. - BUDIS, J. - SZEMES, T. Identification of Bacterial and Fungal Communities in the Roots of Orchids and Surrounding Soil in Heavy Metal Contaminated Area of Mining Heaps. In APPLIED SCIENCES-BASEL. OCT 2020, vol. 10, no. 20, 7367, Registrované v: WOS

ADCA281 ŠIMONOVIČOVÁ, A. - FERIANC, Peter - VOJTKOVÁ, Hana - PANGALLO, Domenico - HANAJIK, P. - KRAKOVÁ, Lucia - FEKETEOVÁ, Zuzana - ČERŇANSKÝ, S. - OKENICOVÁ, L. - ŽEMBERYOVÁ, Mária - BUJDOŠ, M. - PAUDITŠOVÁ, E. Alkaline Technosol contaminated by former mining activity and its culturable autochthonous microbiota. In Chemosphere, 2017, vol. 171, p. 89–96. (2016: 4.208 - IF, Q1 - JCR, 1.447 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0045-6535. Dostupné na: https://doi.org/10.1016/j.chemosphere.2016.11.131

Citácie:

1. [1.1] BOHMER, M. - OZDIN, D. - RACKO, M. - LICHVAR, M. - BUDIS, J. - SZEMES, T. Identification of Bacterial and Fungal Communities in the Roots of Orchids and Surrounding Soil in Heavy Metal Contaminated Area of Mining Heaps. In APPLIED SCIENCES-BASEL. OCT 2020, vol. 10, no. 20, 7367, Registrované v: WOS

2. [1.1] BOTUROVA, K. Microbiota as an indicator of the environmental burden of mined-out sites. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012004, Registrované v: WOS

3. [1.1] DLABAJA, M. Utilisation of secondary raw materials for production of artificial soils substrate. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012011, Registrované v: WOS

4. [1.1] PAVLIKOVA, M. Microbial degradation of wool industry wastewater. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012042, Registrované v: WOS

5. [1.1] RUIZ, F. - SARTOR, L.R. - DE SOUZA, V.S. - DOS SANTOS, J.C.B. - FERREIRA, T.O. Fast pedogenesis of tropical Technosols developed from dolomitic limestone mine spoils (SE-Brazil). In GEODERMA. ISSN 0016-7061, SEP 1 2020, vol. 374, 114439, Registrované v: WOS

6. [1.1] UZAROWICZ, L. - WOLINSKA, A. - BLONSKA, E. - SZAFRANEK-NAKONIECZNA, A. - KUZNIAR, A. - SLODCZYK, Z. - KWASOWSKI, W. Technogenic soils (Technosols) developed from mine spoils containing Fe sulphides: Microbiological activity as an indicator of soil development following land reclamation. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, DEC 2020, vol. 156, 103699, Registrované v: WOS

7. [1.1] WOLINSKA, A. - WLODARCZYK, K. - KUZNIAR, A. - MARZEC-GRZADZIEL, A. - GRZADZIEL, J. - GALAZKA, A. - UZAROWICZ, L. Soil Microbial Community Profiling and Bacterial Metabolic Activity of Technosols as an Effect of Soil Properties following Land Reclamation: A Case Study from the Abandoned Iron Sulphide and Uranium Mine in Rudki (South-Central Poland). In AGRONOMY-BASEL. NOV 2020, vol. 10, no. 11, 1795, Registrované v: WOS

8. [1.2] KLUS, L. - DVORSKY, T. - SVOBODA, J. - CHARVAT, J. - MACALOVA, K. - CHLEBKOVA, L. - VÁCLAVÍK, V. Fungicidal properties of cement composites based on waste sludge water from concrete plant. In IOP Conference Series: Materials Science and Engineering. ISSN 17578981, 2020-10-08, 867, 1, pp 012020., Registrované v: SCOPUS

9. [1.2] KUČOVÁ, Kateřina. Bioaccumulation of hazardous metals by plants in post-mine dump sites. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2020-01-01, 2020-August, 5.1, pp. 99-105., Registrované v: SCOPUS

10. [1.2] PAVLÍKOVÁ, Marie. Impact of textile industry wastewater on microorganisms of activated sludge. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2020-01-01, 2020-August, 6.1, pp. 253-258., Registrované v: SCOPUS

ADCA282 ŠIMONOVIČOVÁ, A. - PEŤKOVÁ, K. - JURKOVIČ, L. - FERIANC, Peter - VOJTKOVÁ, Hana - REMENÁR, Matej - KRAKOVÁ, Lucia - PANGALLO, Domenico - HILLER, Edgar - ČERŇANSKÝ, S. Autochthonous microbiota in arsenic-bearing technosols from Zemianske Kostoľany (Slovakia) and its potential for bioleaching and biovolatilization of arsenic. In Water, Air and Soil Pollution, 2016, vol. 227, no. 336, p. 1-17. (2015: 1.551 - IF, Q2 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0049-6979. Dostupné na: https://doi.org/10.1007/s11270-016-3038-1

Citácie:
1. [1.1] BOTUROVA, K. Microbiota as an indicator of the environmental burden of mined-out sites. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012004, Registrované v: WOS
2. [1.1] DLABAJA, M. Utilisation of secondary raw materials for production of artificial soils substrate. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012011, Registrované v: WOS
3. [1.1] PAVLIKOVA, M. Microbial degradation of wool industry wastewater. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012042, Registrované v: WOS
4. [1.2] KLUS, L. - DVORSKY, T. - SVOBODA, J. - CHARVAT, J. - MACALOVA, K. - CHLEBKOVA, L. - VÁCLAVÍK, V. Fungicidal properties of cement composites based on waste sludge water from concrete plant. In IOP Conference Series: Materials Science and Engineering. ISSN 17578981, 2020-10-08, 867, 1, pp., Registrované v: SCOPUS
5. [1.2] KUČOVÁ, Kateřina. Bioaccumulation of hazardous metals by plants in post-mine dump sites. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2020-01-01, 2020-August, 5.1, pp. 99-105., Registrované v: SCOPUS

ADCA283 ŠKOVIEROVÁ, Henrieta - ROWLEY, G. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - LEWIS, C. - ROBERTS, M. - KORMANEC, Ján. Identification of the sigmaE regulon of Salmonella enterica serovar Typhimurium. In Microbiology, 2006, vol. 152, p. 1347-1359. (2005: 3.173 - IF, Q1 - JCR, 1.760 - SJR, Q1 - SJR). ISSN 1350-0872.

Citácie:
1. [1.1] BURIN, R. - SHAH, D.H. Global transcriptional profiling of tyramine and D-glucuronic acid catabolism in Salmonella. In INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY. ISSN 1438-4221, DEC 2020, vol. 310, no. 8., Registrované v: WOS
2. [1.1] LASTOVETSKY, O.A. - KRASNOVSKY, L.D. - QIN, X.T. - GASPAR, M.L. - GRYGANSKYI, A.P. - HUNTEMANN, M. - CLUM, A. - PILLAY, M. - PALANIAPPAN, K. - VARGHESE, N. - MIKHAILOVA, N. - STAMATIS, D. - REDDY, T.B.K. - DAUM, C. - SHAPIRO, N. - IVANOVA, N. - KYRPIDES, N. - WOYKE, T. - PAWLOWSKA, T.E. Molecular Dialogues between Early Divergent Fungi and Bacteria in an Antagonism versus a Mutualism. In MBIO. ISSN 2150-7511, SEP-OCT 2020, vol. 11, no. 5., Registrované v: WOS
3. [1.1] SLOTBOOM, D.J. - ETTEMA, T.W. - NIJLAND, M. - THANGARATNARAJAH, C. Bacterial multi-solute transporters. In FEBS LETTERS. ISSN 0014-5793, DEC 2020, vol. 594, no. 23, SI, p. 3898-3907., Registrované v: WOS

ADCA284 ŠKRABANA, Rostislav - ŠEVČÍK, Jozef - NOVÁK, Michal. Intrinsically Disordered Proteins in the Neurodegenerative Processes : Formation of Tau Protein Paired Helical Filaments and Their Analysis. In Cellular and Molecular Neurobiology. - New York : Springer, 2006, vol. 26, p.1085-1097. (2005: 2.022 - IF, Q3 - JCR, 1.091 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0272-4340.

Citácie:
1. [1.1] CANDELISE, N. - SCHMITZ, M. - THUNE, K. - CRAMM, M. - RABANO, A. - ZAFAR, S. - STOOPS, E. - VANDERSTICHELE, H. - VILLAR-PIQUE, A. - LLORENS, F. - ZERR, I. Effect of the micro-environment on alpha-synuclein conversion and implication in seeded conversion assays. In TRANSLATIONAL NEURODEGENERATION. ISSN 2047-9158, JAN 17 2020, vol. 9, no. 1., Registrované v: WOS
2. [1.1] LIU, H.L. - ZHONG, H.Y. - XU, Z.R. - ZHANG, Q.Q. - SHAH, S.J.A. - LIU, H.X. - YAO, X.J. The misfolding mechanism of the key fragment R3 of tau protein: a combined molecular dynamics simulation and Markov state model study. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, MAY 21 2020, vol. 22, no. 19, p. 10968-10980., Registrované v: WOS

ADCA285 ŠOLTÝS, K. - PLANÝ, Matej - BIOCCA, P. - VIANELLO, V. - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - SCLOCCHI, M.C. - COLAIZZI, P. - BICCHIERI, M. - PANGALLO, Domenico** - PINZARI, F. Lead soaps formation and biodiversity in a XVIII Century wax seal coloured with minium. In Environmental microbiology, 2020, vol. 22, 1517–1534. (2019: 4.933 - IF, Q1 - JCR, 2.180 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.14735

Citácie:
1. [1.1] BEATA, G. The use of -omics tools for assessing biodeterioration of cultural heritage: A review. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, SEP-OCT 2020, vol. 45, p. 351-361., Registrované v: WOS
2. [1.1] PINAR, G. - POYNTNER, C. - LOPANDIC, K. - TAFER, H. - STERFLINGER, K. Rapid diagnosis of biological colonization in cultural artefacts using the MinION nanopore sequencing technology. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-

8305, MAR 2020, vol. 148, 104908, Registrované v: WOS
3. [1.1] SZULC, J. - JABLONSKAJA, I. - JABLONSKA, E. - RUMAN, T. - KARBOWSKA-BERENT, J. - GUTAROWSKA, B. Metabolomics and metagenomics characteristic of historic beeswax seals. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2020, vol. 152, 105012., Registrované v: WOS

ADCA286 TAMINDŽIJA, D. - CHROMÍKOVÁ, Zuzana - SPAIC, A. - BARÁK, Imrich - BERNIER-LATMANI, R. - RADNOVIĆ, Dragan. Chromate tolerance and removal of bacterial strains isolated from uncontaminated and chromium-polluted environments. In World Journal of Microbiology & Biotechnology, 2019, vol. 35, no. 4, p. 35-56. (2018: 2.652 - IF, Q2 - JCR, 0.743 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-019-2638-5

Citácie:
1. [1.2] SIDDIQA, Ayesha - FAISAL, Muhammad. Heavy metals: Source, toxicity mechanisms, health effects, nanotoxicology and their bioremediation. In Contaminants in Agriculture: Sources, Impacts and Management, 2020-04-25, pp. 117-141., Registrované v: SCOPUS

ADCA287 THORSON, M.K. - MAJTÁN, Tomáš - KRAUS, J.P. - BARRIOS, A.M. Identification of cystathionine b-synthase inhibitors using a hydrogen sulfide selective probe. In Angewandte Chemie, 2013, vol. 52, p. 4641-4644. (2012: 13.734 - IF, Q1 - JCR, 6.407 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1433-7851. Dostupné na: https://doi.org/10.1002/anie.201300841

Citácie:
1. [1.1] ALBAKOUR, M. - ONGUN, M.Z. - TOPAL, S.Z. - GUREK, A.G. Zn(ii) phthalocyanines tetra substituted by aryl and alkyl azides: design, synthesis and optical detection of H2S. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, APR 28 2020, vol. 44, no. 16, p. 6285-6296., Registrované v: WOS
2. [1.1] BRUEMMER, K.J. - CROSSLEY, S.W.M. - CHANG, C.J. Activity-Based Sensing: A Synthetic Methods Approach for Selective Molecular Imaging and Beyond. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, AUG 10 2020, vol. 59, no. 33, p. 13734-13762., Registrované v: WOS
3. [1.1] LIU, H.Y. - XU, G. - ZHU, T.L. - WANG, R.C. - TAN, J.H. - ZHAO, C.C. - GU, X.F. Rational design of water-dispersible and biocompatible nanoprobes with H2S-triggered NIR emission for cancer cell imaging. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, JUL 28 2020, vol. 8, no. 28, p. 6013-6016., Registrované v: WOS
4. [1.1] OLSON, K.R. - GAO, Y. - DELEON, E.R. - MARKEL, T.A. - DRUCKER, N. - BOONE, D. - WHITEMAN, M. - STEIGER, A.K. - PLUTH, M.D. - TESSIER, C.R. - STAHELIN, R.V. Extended hypoxia-mediated H2S production provides for long-term oxygen sensing. In ACTA PHYSIOLOGICA. ISSN 1748-1708, MAR 2020, vol. 228, no. 3, e13368., Registrované v: WOS
5. [1.1] PLUTH, M.D. - ZHAO, Y. - CERDA, M.M. H2S donors with optical responses. In CHEMICAL TOOLS FOR IMAGING, MANIPULATING, AND TRACKING BIOLOGICAL SYSTEMS: DIVERSE CHEMICAL, OPTICAL AND BIOORTHOGONAL METHODS. ISSN 0076-6879, 2020, vol. 641, p. 149-164., Registrované v: WOS

ADCA288 TIŠÁKOVÁ, Lenka - PIPÍŠKA, M. - GODÁNY, Andrej - HORNÍK, M. - VIDOVÁ, Barbora - AUGUSTIN, J. Bioaccumulation of 137Cs and 60Co by bacteria isolated from spent nuclear fuel pools. In Journal of Radioanalytical and Nuclear Chemistry, 2013, vol. 295, p. 737–748. (2012: 1.467 - IF, Q1 - JCR, 0.542 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0236-5731. Dostupné na: https://doi.org/10.1007/s10967-012-1932-6

Citácie:
1. [1.1] KAMALA, K. - SIVAPERUMAL, P. - THILAGARAJ, R. - NATARAJAN, E. Bioremediation of Sr2+ ion radionuclide by using marine Streptomyces sp. CuOff24 extracellular polymeric substances. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, APR 2020, vol. 95, no. 4, p. 893-903., Registrované v: WOS
2. [1.1] RUIZ-LOPEZ, S. - FOSTER, L. - BOOTHMAN, C. - COLE, N. - MORRIS, K. - LLOYD, J.R. Identification of a Stable Hydrogen-Driven Microbiome in a Highly Radioactive Storage Facility on the Sellafield Site. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 24 2020, vol. 11., Registrované v: WOS

ADCA289 TSOLIS, K.C. - HAMED, M.B. - SIMOENS, K. - KOEPFF, J. - BUSCHE, T. - RUCKERT, C. - OLDIGES, M. - KALINOWSKI, J. - ANNÉ, J. - KORMANEC, Ján - BERNAERTS, K. - KARAMANOU, S. - ECONOMOU, A. Secretome dynamics in a gram-positive bacterial model. In Molecular and cellular proteomics, 2019, vol. 18, p. 423-436. (2018: 4.828 - IF, Q1 - JCR, 2.807 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1535-9476. Dostupné na: https://doi.org/10.1074/mcp.RA118.000899

Citácie:
1. [1.1] LAMPAKI, D. - DIEPOLD, A. - GLATTER, T. A Serial Sample Processing Strategy with

Improved Performance for in-Depth Quantitative Analysis of Type III Secretion Events in Pseudomonas aeruginosa. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, JAN 2020, vol. 19, no. 1, p. 543-553., Registrované v: WOS

ADCA290 URBANČÍKOVÁ, I. - HUDÁČKOVÁ, D. - MAJTÁN, Juraj - RENNEROVÁ, Z.** - BÁNOVČIN, P - JESEŇÁK, M.**. Efficacy of Pleuran (β-Glucan From Pleurotus ostreatus) in the Management of Herpes Simplex Virus Type 1 Infection. In Evidence-based Complementary and Alternative Medicine, 2020, vol. 2020, no. 8562309. (2019: 1.813 - IF, Q3 - JCR, 0.510 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1741-427X. Dostupné na: https://doi.org/10.1155/2020/8562309

Citácie:

1. [1.2] GHOSH, KAUSHIK - MONDAL, SOUMITRA. Bioactive glucans from edible mushrooms: A review. In Asian Journal of Chemistry. ISSN 09707077, 2020-10-01, 32, 10, pp. 2431-2437., Registrované v: SCOPUS

ADCA291 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, Q2 - JCR, 1.669 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2011.08127.x

Citácie:

1. [1.1] BHARDWAJ, Nisha - VERMA, Vijay Kumar - CHATURVEDI, Venkatesh - VERMA, Pradeep. Cloning, expression and characterization of a thermo-alkali-stable xylanase from Aspergillus oryzae LC1 in Escherichia coli BL21(DE3). In PROTEIN EXPRESSION AND PURIFICATION. ISSN 1046-5928, 2020, vol. 168, no., pp. Dostupné na: https://doi.org/10.1016/j.pep.2019.105551., Registrované v: WOS

2. [1.1] BOUICHE, Cilia - BOUCHERBA, Nawel - BENALLAOUA, Said - MARTINEZ, Josefina - DIAZ, Pilar - PASTOR, F. I. Javier - VALENZUELA, Susana V. Differential antioxidant activity of glucuronoxylooligosaccharides (UXOS) and arabinoxylooligosaccharides (AXOS) produced by two novel xylanases. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2020, vol. 155, no., pp. 1075-1083. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2019.11.073., Registrované v: WOS

3. [1.1] CROOKS, Casey - LONG, Liangkun - ST JOHN, Franz J. CaXyn30B from the solventogenic bacteriumClostridium acetobutylicumis a glucuronic acid-dependent endoxylanase. In BMC RESEARCH NOTES, 2020, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1186/s13104-020-05091-5., Registrované v: WOS

4. [1.1] HAGIWARA, Yusuke - MIHARA, Yasuhiro - SAKAGAMI, Koichi - SAGARA, Ryuta - BAT-ERDENE, Undramaa - YATSUNAMI, Rie - NAKAMURA, Satoshi. Isolation of four xylanases capable of hydrolyzing corn fiber xylan from Paenibacillus sp. H2C. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2020, vol. 84, no. 3, pp. 640-650. Dostupné na: https://doi.org/10.1080/09168451.2019.1693253., Registrované v: WOS

5. [1.1] JIMENEZ-ORTEGA, Elena - VALENZUELA, Susana - RAMIREZ-ESCUDERO, Mercedes - PASTOR, Francisco Javier - SANZ-APARICIO, Julia. Structural analysis of the reducing-end xylose-releasing exo-oligoxylanase Rex8A from Paenibacillus barcinonensis BP-23 deciphers its molecular specificity. In FEBS JOURNAL. ISSN 1742-464X, 2020, vol. 287, no. 24, pp. 5362-5374. Dostupné na: https://doi.org/10.1111/febs.15332., Registrované v: WOS

6. [1.1] MUNK, Line - MUSCHIOL, Jan - LI, Kai - LIU, Ming - PERZON, Alixander - MEIER, Sebastian - ULVSKOV, Peter - MEYER, Anne S. Selective Enzymatic Release and Gel Formation by Cross-Linking of Feruloylated Glucurono-Arabinoxylan from Corn Bran. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2020, vol. 8, no. 22, pp. 8164-8174. Dostupné na: https://doi.org/10.1021/acssuschemeng.0c00663., Registrované v: WOS

7. [1.1] NAKAMICHI, Yusuke - FUJII, Tatsuya - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Crystal structure of GH30-7 endoxylanase C from the filamentous fungus Talaromyces cellulolyticus. In ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS, 2020, vol. 76, no., pp. 341-349. Dostupné na: https://doi.org/10.1107/S2053230X20009024., Registrované v: WOS

8. [1.1] NAKAMICHI, Yusuke - WATANABE, Masahiro - MATSUSHIKA, Akinori - INOUE, Hiroyuki. Substrate recognition by a bifunctional GH30-7 xylanase B from Talaromyces cellulolyticus. In FEBS OPEN BIO. ISSN 2211-5463, 2020, vol. 10, no. 6, pp. 1180-1189. Dostupné na: https://doi.org/10.1002/2211-5463.12873., Registrované v: WOS

ADCA292 URZI, C. - DE LEO, F. - KRAKOVÁ, Lucia - PANGALLO, Domenico - BRUNO, L. Effects of biocide treatments on the biofilm community in Domitilla';s catacombs in Rome. In Science of the Total Environment, 2016, vol. 572, p. 252–262. (2015: 3.976 - IF, Q1 - JCR, 1.653 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0048-9697. Dostupné na: https://doi.org/10.1016/j.scitotenv.2016.07.195

Citácie:
1. [1.1] GENOVA, C. - FUENTES, E. - SANMARTIN, P. - FAVERO, G. - PRIETO, B. Phytochemical Compounds as Cleaning Agents on Granite Colonized by Phototrophic Subaerial Biofilms. In COATINGS. MAR 2020, vol. 10, no. 3, 295., Registrované v: WOS
2. [1.1] GENOVA, C. - GROTTOLI, A. - ZOPPIS, E. - CENCETTI, C. - MATRICARDI, P. - FAVERO, G. An integrated approach to the recovery of travertine biodegradation by combining phyto-cleaning with genomic characterization. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, JUL 2020, vol. 156, 104918., Registrované v: WOS
3. [1.1] LI, T.X. - HU, Y.L. - ZHANG, B.J. Evaluation of efficiency of six biocides against microorganisms commonly found on Feilaifeng Limestone, China. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2020, vol. 43, p. 45-50., Registrované v: WOS
4. [1.1] SANTO, A.P. - AGOSTINI, B. - CHECCUCCI, A. - PECCHIONI, E. - PERITO, B. An interdisciplinary study of biodeterioration of the external marbles of Santa Maria del Fiore Cathedral, Florence (IT). In INTERNATIONAL CONFERENCE FLORENCE HERI-TECH: THE FUTURE OF HERITAGE SCIENCE AND TECHNOLOGIES. ISSN 1757-8981, 2020, vol. 949, 012085, Registrované v: WOS
5. [1.1] VILLA, F. - GULOTTA, D. - TONIOLO, L. - BORRUSO, L. - CATTO, C. - CAPPITELLI, F. Aesthetic Alteration of Marble Surfaces Caused by Biofilm Formation: Effects of Chemical Cleaning. In COATINGS. FEB 2020, vol. 10, no. 2, 122., Registrované v: WOS

ADCA293 VALACHOVÁ, Ivana - BUČEKOVÁ, Marcela - MAJTÁN, Juraj. Quantification of bee-derived peptide defensin-1 in honey by competitive enzyme-linked immunosorbent assay, a new approach in honey quality control (WOS) //. In Czech Journal of Food Sciences, 2016, vol. 34, iss. 3, p. 233-243. (2015: 0.728 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1212-1800. Dostupné na: https://doi.org/10.17221/422/2015-CJFS (VEGA 2/0007/14 : Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán)

Citácie:
1. [1.1] CEBRERO, G. - SANHUEZA, O. - PEZOA, M. - BAEZ, M.E. - MARTINEZ, J. - BAEZ, M. - FUENTES, E. Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. In FOOD CHEMISTRY. ISSN 0308-8146, JUN 15 2020, vol. 315., Registrované v: WOS
2. [1.1] COMBARROS-FUERTES, P. - FRESNO, J.M. - ESTEVINHO, M.M. - SOUSA-PIMENTA, M. - TORNADIJO, M.E. - ESTEVINHO, L.M. Honey: Another Alternative in the Fight against Antibiotic-Resistant Bacteria?. In ANTIBIOTICS-BASEL. ISSN 2079-6382, NOV 2020, vol. 9, no. 11., Registrované v: WOS

ADCA294 VAN DER KAAIJ, R.M. - JANEČEK, Štefan - VAN DER MAAREL, M.J. - DIJKHUIZEN, L. Phylogenetic and biochemical characterization of a novel cluster of intracellular fungal alpha-amylase enzymes. In Microbiology : international journal, 2007, vol. 153, no. 12, pp. 4003-4015. (2006: 3.139 - IF, Q2 - JCR, 1.794 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1350-0872.

Citácie:
1. [1.1] DESIDERATO, A. - BARBEITOS, M. - GILBERT, C. - DA LAGE, J.L. Horizontal Transfer and Gene Loss Shaped the Evolution of Alpha-Amylases in Bilaterians. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, FEB 2020, vol. 10, no. 2, p. 709-719., Registrované v: WOS
2. [1.1] SAMALOVA, M. - CARR, P. - BROMLEY, M. - BLATZER, M. - MOYA-NILGES, M. - LATGE, J.P. - MOUYNA, I. GPI Anchored Proteins in Aspergillus fumigatus and Cell Wall Morphogenesis. In FUNGAL CELL WALL: AN ARMOUR AND A WEAPON FOR HUMAN FUNGAL PATHOGENS. ISSN 0070-217X, 2020, vol. 425, p. 167-186., Registrované v: WOS
3. [1.2] Miyazawa, K., Yoshimi, A., Abe, K.: The mechanisms of hyphal pellet formation mediated by polysaccharides, α-1,3-glucan and galactosaminogalactan, in Aspergillus species In Fungal Biology and Biotechnology volume 7, Article number: 10 (2020), Registrované v: SCOPUS

ADCA295 VAVROVÁ, Ľudmila - MUCHOVÁ, Katarína - BARÁK, Imrich. Comparison of different Bacillus subtilis expression systems. In Research in Microbiology, 2010, vol. 161, p. 791-797. (2009: 2.154 - IF, Q3 - JCR, 1.169 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0923-2508. Dostupné na: https://doi.org/10.1016/j.resmic.2010.09.004

Citácie:
1. [1.1] DUZENLI, O.F. - OKAY, S. Promoter engineering for the recombinant protein production in prokaryotic systems. In AIMS BIOENGINEERING. ISSN 2375-1495, 2020, vol. 7, no. 2, p. 62-81., Registrované v: WOS
2. [1.1] JAGADEESAN, Y. - MEENAKSHISUNDARAM, S. - SARAVANAN, V. - BALAIAH, A. Sustainable production, biochemical and molecular characterization of thermo-and-solvent stable alkaline serine keratinase from novel Bacillus pumilus AR57 for promising poultry solid waste management. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN

0141-8130, NOV 15 2020, vol. 163, p. 135-146., Registrované v: WOS
3. [1.1] KI, M.R. - PACK, S.P. Fusion tags to enhance heterologous protein expression. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, MAR 2020, vol. 104, no. 6, p. 2411-2425., Registrované v: WOS
4. [1.1] LU, J. - ZHU, X.Y. - ZHANG, C. - LU, F.X. - LU, Z.X. - LU, Y.J. Co-expression of alcohol dehydrogenase and aldehyde dehydrogenase in Bacillus subtilis for alcohol detoxification. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, JAN 2020, vol. 135, 110890, Registrované v: WOS
5. [1.1] MOHSENI, A.H. - TAGHINEZHAD-SAROUKALAEI, S. - VOGLMEIR, J. Recombinant Glycoenzyme Production in Gram-Positive Bacteria-An Overview. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, MAY 2020, vol. 32, no. 187, p. E99-E104., Registrované v: WOS
6. [1.1] TOYMENTSEVA, A.A. - KORYAGINA, A.O. - LAIKOV, A.V. - SHARIPOVA, M.R. Label-Free Multiple Reaction Monitoring, a Promising Method for Quantification Analyses of Specific Proteins in Bacteria. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUL 2020, vol. 21, no. 14, 4924, Registrované v: WOS
7. [1.2] WU, Yingqiang - WU, Guo - FU, Pengc ang - HU, Meng. Microfluidic Organ Chip for in Vitro Model of Blood Glucose Monitoring and Regulation. In E3S Web of Conferences. ISSN 25550403, 2020-12-11, 218, pp.04029, Registrované v: SCOPUS

ADCA296 VÍTKOVÁ, M. - DERCOVÁ, Katarína - MOLNÁROVÁ, J. - TÓTHOVÁ, L. - POLEK, Bystrík - GODOČÍKOVÁ, Jana. The effect of lignite and comamonas testosteroni on pentachlorophenol biodegradation and soil ecotoxicity. In Water, Air and Soil Pollution, 2011, vol. 218, p. 145-155. (2010: 1.765 - IF, Q1 - JCR, 0.772 - SJR, Q1 - SJR). ISSN 0049-6979. Dostupné na: https://doi.org/10.1007/s11270-010-0630-7

Citácie:
1. [1.1] AHMAD, F. - ZHU, D.C. - SUN, J.Z. Bacterial chemotaxis: a way forward to aromatic compounds biodegradation. In ENVIRONMENTAL SCIENCES EUROPE. ISSN 2190-4707, MAR 30 2020, vol. 32, no. 1., Registrované v: WOS
2. [1.1] ALEXANDRINO, D.A.M. - MUCHA, A.P. - ALMEIDA, C.M.R. - CARVALHO, M.F. Microbial degradation of two highly persistent fluorinated fungicides - epoxiconazole and fludioxonil. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, JUL 15 2020, vol. 394., Registrované v: WOS
3. [1.1] AMOAH-ANTWI, C. - KWIATKOWSKA-MALINA, J. - THORNTON, S.F. - FENTON, O. - MALINA, G. - SZARA, E. Restoration of soil quality using biochar and brown coal waste: A review. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, JUN 20 2020, vol. 722., Registrované v: WOS

ADCA297 VLASITS, J. - JAKOPITSCH, C. - BERNROITNER, M. - ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Mechanisms of catalase activity of heme peroxidases. In Archives of Biochemistry and Biophysics, 2010, vol. 500, p. 74-81. (2009: 3.046 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2010.04.018

Citácie:
1. [1.1] BALLAL, A. - CHAKRAVARTY, D. - BIHANI, S.C. - BANERJEE, M. Gazing into the remarkable world of non-heme catalases through the window of the cyanobacterial Mn-catalase ';KatB';. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, NOV 20 2020, vol. 160, p. 480-487., Registrované v: WOS
2. [1.1] CHEN, H. - DONG, F.Y. - MINTEER, S.D. The progress and outlook of bioelectrocatalysis for the production of chemicals, fuels and materials. In NATURE CATALYSIS. ISSN 2520-1158, MAR 2020, vol. 3, no. 3, p. 225-244., Registrované v: WOS
3. [1.1] CHEN, H. - SIMOSKA, O. - LIM, K. - GRATTIERI, M. - YUAN, M.W. - DONG, F.Y. - LEE, Y.S. - BEAVER, K. - WELIWATTE, S. - GAFFNEY, E.M. - MINTEER, S.D. Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. In CHEMICAL REVIEWS. ISSN 0009-2665, DEC 9 2020, vol. 120, no. 23, p. 12903-12993., Registrované v: WOS
4. [1.1] LIU, G. - SIL, D. - MAIO, N. - TONG, W.H. - BOLLINGER, J.M. - KREBS, C. - ROUAULT, T.A. Heme biosynthesis depends on previously unrecognized acquisition of iron-sulfur cofactors in human amino-levulinic acid dehydratase. In NATURE COMMUNICATIONS. ISSN 2041-1723, DEC 9 2020, vol. 11, no. 1, 6310., Registrované v: WOS
5. [1.1] LYALL, R. - NIKOLOSKI, Z. - GECHEV, T. Comparative Analysis of ROS Network Genes in Extremophile Eukaryotes. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2020, vol. 21, no. 23., Registrované v: WOS
6. [1.1] ROSSETTI, A.C. - PALADINI, M.S. - RIVA, M.A. - MOLTENI, R. Oxidation-reduction mechanisms in psychiatric disorders: A novel target for pharmacological intervention. In PHARMACOLOGY & THERAPEUTICS. ISSN 0163-7258, JUN 2020, vol. 210, 107520.,

Registrované v: WOS
7. [1.2] KREWALL, Jessica R. - MINTON, Laura E. - GOODWIN, Douglas C. KatG Structure and Mechanism: Using Protein-Based Oxidation to Confront the Threats of Reactive Oxygen. In ACS Symposium Series. ISSN 00976156, 2020-01-01, 1357, pp. 83-120., Registrované v: SCOPUS

ADCA298 WALKER, D. - BURKE, V.J. - BARÁK, Imrich - AVISE, J.C. A comparison of mtDNA restriction sites vs. control region sequences in phylogeographic assessment of the musk turtle (Sternotherus minor). In Molecular Ecology, 1995, vol. 4, p. 365-373. ISSN 0962-1083.

Citácie:
1. [1.1] RICHARDSON, D.J. - HAMMOND, C.I. - MOSER, W.E. - PHILLIPS, A.J. - LAZO-WASEM, E.A. - BARGER, M.A. Molecular Variation and Biogeography of the Common North American Turtle Leech, Placobdella parasitica. In BULLETIN OF THE PEABODY MUSEUM OF NATURAL HISTORY. ISSN 0079-032X, OCT 2020, vol. 61, no. 2, p. 83-95., Registrované v: WOS

ADCA299 WANG, G. - BAO,MIN-HANG - ZHANG, X. - MAJTÁN, Juraj - CHEN, Kai. Th17 cytokines and barrier functions. In Mediators of inflammation, 2016, vol. 2016, 7179214. (2015: 3.418 - IF, Q2 - JCR, 1.485 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0962-9351. Dostupné na: https://doi.org/10.1155/2016/7179214

Citácie:
1. [1.2] ZAYDULLIN, Iskander I. - KARIMOV, Denis O. - KARIMOVA, Lilija K. - KABIROVA, Milyausha F. - GALIMOVA, Rasima R. - VALEEVA, Elvira T. Comparative analysis of polymorphic variants of il-17a and mmp-1 genes with the risk of developing chronic periodontitis in petrochemical workers. In Meditsina Truda I Promyshlennaya Ekologiya. ISSN 10269428, 2020-01-01, 60, 10, pp. 687-693., Registrované v: SCOPUS

ADCA300 WEINSTOCK, G.M. - ROBINSON, G.E. - BÍLIKOVÁ, Katarína - ŠIMÚTH, Jozef. Insights into social insects from the genome of the honeybee Apis mellifera. In Nature, 2006, vol. 443, no. 7114, p. 931. (2005: 29.273 - IF, Q1 - JCR, 10.333 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0028-0836.

Citácie:
1. [1.1] ABOU-SHAARA, H.F. Using Simple Statistics to Compare Genetic Sequences. In THAILAND STATISTICIAN. ISSN 1685-9057, JUL 2020, vol. 18, no. 3, p. 373-380., Registrované v: WOS
2. [1.1] AMIRI, E. - WAIKER, P. - RUEPPELL, O. - MANDA, P. Using Manual and Computer-Based Text-Mining to Uncover Research Trends for Apis mellifera. In VETERINARY SCIENCES. JUN 2020, vol. 7, no. 2., Registrované v: WOS
3. [1.1] BAKER, A.J. - HERATY, J.M. - MOTTERN, J. - ZHANG, J.X. - HINES, H.M. - LEMMON, A.R. - LEMMON, E.M. Inverse dispersal patterns in a group of ant parasitoids (Hymenoptera: Eucharitidae: Oraseminae) and their ant hosts. In SYSTEMATIC ENTOMOLOGY. ISSN 0307-6970, JAN 2020, vol. 45, no. 1, p. 1-19., Registrované v: WOS
4. [1.1] BAO, R.Y. - FRIEDRICH, M. Genomic signatures of globally enhanced gene duplicate accumulation in the megadiverse higher Diptera fueling intralocus sexual conflict resolution. In PEERJ. ISSN 2167-8359, OCT 12 2020, vol. 8., Registrované v: WOS
5. [1.1] BARAK, M. - PORATH, H.T. - FINKELSTEIN, G. - KNISBACHER, B.A. - BUCHUMENSKI, I. - ROTH, S.H. - LEVANON, E.Y. - EISENBERG, E. Purifying selection of long dsRNA is the first line of defense against false activation of innate immunity. In GENOME BIOLOGY. ISSN 1474-760X, FEB 7 2020, vol. 21, no. 1., Registrované v: WOS
6. [1.1] BUTOLO, N.P. - AZEVEDO, P. - DE ALENCAR, L.D. - DOMINGUES, C.E.C. - MIOTELO, L. - MALASPINA, O. - NOCELLI, R.C.F. A high quality method for hemolymph collection from honeybee larvae. In PLOS ONE. ISSN 1932-6203, JUN 18 2020, vol. 15, no. 6., Registrované v: WOS
7. [1.1] CALFEE, E. - AGRA, M.N. - PALACIO, M.A. - RAMIREZ, S.R. - COOP, G. Selection and hybridization shaped the rapid spread of African honey bee ancestry in the Americas. In PLOS GENETICS. ISSN 1553-7404, OCT 2020, vol. 16, no. 10., Registrované v: WOS
8. [1.1] CUI, X.P. - WANG, C. - WANG, X.X. - LI, G.L. - LIU, Z.G. - WANG, H.F. - GUO, X.Q. - XU, B.H. Molecular Mechanism of the UDP-Glucuronosyltransferase 2B20-like Gene (AccUGT2B20-like) in Pesticide Resistance of Apis cerana cerana. In FRONTIERS IN GENETICS. NOV 19 2020, vol. 11., Registrované v: WOS
9. [1.1] DE SOUZA, D.L.L. - SANTANA, W.C. - ZANUNCIO, J.C. - SERRAO, J.E. Aquaporin and aquaglyceroporin genes have different expression levels in the digestive tract and Malpighian tubules of honey bee nurses and foragers (Apis mellifera). In JOURNAL OF APICULTURAL RESEARCH. ISSN 0021-8839, MAR 14 2020, vol. 59, no. 2, p. 178-184., Registrované v: WOS
10. [1.1] EIMANIFAR, A. - PIEPLOW, J.T. - ASEM, A. - ELLIS, J.D. Genetic diversity and population structure of two subspecies of western honey bees (Apis mellifera L.) in the Republic of South Africa as revealed by microsatellite genotyping. In PEERJ. ISSN 2167-8359, JAN 3 2020, vol. 8., Registrované v: WOS

11. [1.1] FRIEDMAN, D.A. - YORK, R.A. - HILLIARD, A.T. - GORDON, D.M. Gene expression variation in the brains of harvester ant foragers is associated with collective behavior. In COMMUNICATIONS BIOLOGY. MAR 5 2020, vol. 3, no. 1., Registrované v: WOS
12. [1.1] GAFFIN, D.D. - CURRY, C.M. Arachnid navigation - a review of classic and emerging models. In JOURNAL OF ARACHNOLOGY. ISSN 0161-8202, DEC 2020, vol. 48, no. 3., Registrované v: WOS
13. [1.1] GAFFIN, D.D. - CURRY, C.M. Arachnid navigation - a review of classic and emerging models. In JOURNAL OF ARACHNOLOGY. ISSN 0161-8202, JUN 2020, vol. 48, no. 1, p. 1-25., Registrované v: WOS
14. [1.1] GROZINGER, C.M. - ZAYED, A. Improving bee health through genomics. In NATURE REVIEWS GENETICS. ISSN 1471-0056, MAY 2020, vol. 21, no. 5, p. 277-291., Registrované v: WOS
15. [1.1] HARPUR, B.A. - KADRI, S.M. - ORSI, R.O. - WHITFIELD, C.W. - ZAYED, A. Defense Response in Brazilian Honey Bees (Apis mellifera scutellata x spp.) Is Underpinned by Complex Patterns of Admixture. In GENOME BIOLOGY AND EVOLUTION. ISSN 1759-6653, AUG 2020, vol. 12, no. 8, p. 1367-1377., Registrované v: WOS
16. [1.1] HARWOOD, G.P. - DOLEZAL, A.G. Pesticide-Virus Interactions in Honey Bees: Challenges and Opportunities for Understanding Drivers of Bee Declines. In VIRUSES-BASEL. MAY 2020, vol. 12, no. 5., Registrované v: WOS
17. [1.1] ILYASOV, R.A. - LEE, M.L. - TAKAHASHI, J. - KWON, H.W. - NIKOLENKO, A.G. A revision of subspecies structure of western honey bee Apis mellifera. In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, DEC 2020, vol. 27, no. 12, p. 3615-3621., Registrované v: WOS
18. [1.1] JONES, J.C. - DU, Z.P.G. - BERNSTEIN, R. - MEYER, M. - HOPPE, A. - SCHILLING, E. - ABLEITNER, M. - JULING, K. - DICK, R. - STRAUSS, A.S. - BIENEFELD, K. Tool for genomic selection and breeding to evolutionary adaptation: Development of a 100K single nucleotide polymorphism array for the honey bee. In ECOLOGY AND EVOLUTION. ISSN 2045-7758, JUL 2020, vol. 10, no. 13, p. 6246-6256., Registrované v: WOS
19. [1.1] KESHAVARZ, M. - JO, Y.H. - EDOSA, T.T. - BAE, Y.M. - HAN, Y.S. TmPGRP-SA regulates Antimicrobial Response to Bacteria and Fungi in the Fat Body and Gut of Tenebrio molitor. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. MAR 2020, vol. 21, no. 6., Registrované v: WOS
20. [1.1] KHAN, K.A. - AL-GHAMDI, A.A. - GHRAMH, H.A. - ANSARI, M.J. - ALI, H. - ALAMRI, S.A. - AL-KAHTANI, S.N. - ADGABA, N. - QASIM, M. - HAFEEZ, M. Structural diversity and functional variability of gut microbial communities associated with honey bees. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, JAN 2020, vol. 138., Registrované v: WOS
21. [1.1] LI, G.L. - ZHAO, H. - GUO, H.B. - WANG, Y. - CUI, X.P. - LI, H. - XU, B.H. - GUO, X.Q. Analyses of the function of DnaJ family proteins reveal an underlying regulatory mechanism of heat tolerance in honeybee. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, MAY 10 2020, vol. 716., Registrované v: WOS
22. [1.1] LIBBRECHT, R. - NADRAU, D. - FOITZIK, S. A Role of Histone Acetylation in the Regulation of Circadian Rhythm in Ants. In ISCIENCE. FEB 21 2020, vol. 23, no. 2., Registrované v: WOS
23. [1.1] LIU, G.X. - XUAN, N. - RAJASHEKAR, B. - ARNAUD, P. - OFFMANN, B. - PICIMBON, J.F. Comprehensive History of CSP Genes: Evolution, Phylogenetic Distribution and Functions. In GENES. APR 2020, vol. 11, no. 4., Registrované v: WOS
24. [1.1] LIU, J.B. - WU, H. - YI, J.Q. - ZHANG, G.R. Two gustatory receptors are necessary for sensing sucrose in an egg parasitoid, Trichogramma chilonis. In CHEMOECOLOGY. ISSN 0937-7409, JUN 2020, vol. 30, no. 3, p. 103-115., Registrované v: WOS
25. [1.1] LIU, Y.J. - YE, N.H. - CHEN, M.M. - ZHAO, H.Y. - AN, J.D. Structural and Functional Analysis of PGRP-LC Indicates Exclusive Dap-Type PGN Binding in Bumblebees. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. APR 2020, vol. 21, no. 7., Registrované v: WOS
26. [1.1] MCMENAMIN, A.J. - DAUGHENBAUGH, K.F. - FLENNIKEN, M.L. The Heat Shock Response in the Western Honey Bee (Apis mellifera) is Antiviral. In VIRUSES-BASEL. FEB 2020, vol. 12, no. 2., Registrované v: WOS
27. [1.1] MONDET, F. - BEAUREPAIRE, A. - MCAFEE, A. - LOCKE, B. - ALAUX, C. - BLANCHARD, S. - DANKA, B. - LE CONTE, Y. Honey bee survival mechanisms against the parasite Varroa destructor: a systematic review of phenotypic and genomic research efforts. In INTERNATIONAL JOURNAL FOR PARASITOLOGY. ISSN 0020-7519, JUN 2020, vol. 50, no. 6-7, p. 433-447., Registrované v: WOS
28. [1.1] OPPENHEIM, S. - CAO, X.L. - RUEPPEL, O. - KRONGDANG, S. - PHOKASEM, P. - DESALLE, R. - GOODWIN, S. - XING, J.C. - CHANTAWANNAKUL, P. - ROSENFELD, J.A.

Whole Genome Sequencing and Assembly of the Asian Honey Bee Apis dorsata. In GENOME BIOLOGY AND EVOLUTION. ISSN 1759-6653, JAN 2020, vol. 12, no. 1, p. 3677-3683., Registrované v: WOS
29. [1.1] QI, S.Z. - ZHU, L.Z. - WANG, D.H. - WANG, C. - CHEN, X.F. - XUE, X.F. - WU, L.M. Flumethrin at honey-relevant levels induces physiological stresses to honey bee larvae (Apis mellifera L.) in vitro. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, MAR 1 2020, vol. 190., Registrované v: WOS
30. [1.1] QIU, Z.Y. - CHANG, H.H. - YUAN, H. - HUANG, Y. - LU, H.M. - LI, X. - GOU, X.C. Comparative mitochondrial genomes of four species of Sinopodisma and phylogenetic implications (Orthoptera, Melanoplinae). In ZOOKEYS. ISSN 1313-2989, SEP 17 2020, no. 969, p. 23-42., Registrované v: WOS
31. [1.1] RAGO, A. - WERREN, J.H. - COLBOURNE, J.K. Sex biased expression and co-expression networks in development, using the hymenopteran Nasonia vitripennis. In PLOS GENETICS. ISSN 1553-7404, JAN 2020, vol. 16, no. 1., Registrované v: WOS
32. [1.1] RIZWAN, M. - LIANG, P.P. - ALI, H. - LI, Z.G. - NIE, H.Y. - SAQIB, H.S.A. - FIAZ, S. - RAZA, M.F. - HASSANYAR, A.K. - NIU, Q.S. - SU, S.K. Population genomics of honey bees reveals a selection signature indispensable for royal jelly production. In MOLECULAR AND CELLULAR PROBES. ISSN 0890-8508, AUG 2020, vol. 52., Registrované v: WOS
33. [1.1] ROAT, T.C. - DOS SANTOS-PINTO, J.R.A. - MIOTELO, L. - DE SOUZA, C.L. - PALMA, M.S. - MALASPINA, O. Using a toxicoproteomic approach to investigate the effects of thiamethoxam into the brain of Apis mellifera. In CHEMOSPHERE. ISSN 0045-6535, NOV 2020, vol. 258., Registrované v: WOS
34. [1.1] ROELOFS, D. - ZWAENEPOEL, A. - SISTERMANS, T. - NAP, J. - KAMPFRAATH, A.A. - VAN DE PEER, Y. - ELLERS, J. - KRAAIJEVELD, K. Multi-faceted analysis provides little evidence for recurrent whole-genome duplications during hexapod evolution. In BMC BIOLOGY. MAY 27 2020, vol. 18, no. 1., Registrované v: WOS
35. [1.1] SIDOROVA, A. - TVERDISLOV, V. - LEVASHOVA, N. - GARAEVA, A. A model of autowave self-organization as a hierarchy of active media in the biological evolution. In BIOSYSTEMS. ISSN 0303-2647, DEC 2020, vol. 198., Registrované v: WOS
36. [1.1] THEMUDO, G.E. - REY-IGLESIA, A. - TASCON, L.R. - JENSEN, A.B. - DA FONSECA, R.R. - CAMPOS, P.F. Declining genetic diversity of European honeybees along the twentieth century. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 29 2020, vol. 10, no. 1., Registrované v: WOS
37. [1.1] VILLAGRA, C. - FRIAS-LASSERRE, D. Epigenetic Molecular Mechanisms in Insects. In NEOTROPICAL ENTOMOLOGY. ISSN 1519-566X, OCT 2020, vol. 49, no. 5, p. 615-642., Registrované v: WOS
38. [1.1] VUNG, N.N. - CHOI, Y.S. - KIM, I. High resistance to Sacbrood virus disease in Apis cerana (Hymenoptera: Apidae) colonies selected for superior brood viability and hygienic behavior. In APIDOLOGIE. ISSN 0044-8435, FEB 2020, vol. 51, no. 1, p. 61-74., Registrované v: WOS
39. [1.1] WANG, X.Z. - KELKAR, Y.D. - XIONG, X. - MARTINSON, E.O. - LYNCH, J. - ZHANG, C. - WERREN, J.H. - WANG, X. Genome Report: Whole Genome Sequence and Annotation of the Parasitoid Jewel WaspNasonia giraultiLaboratory Strain RV2X[u]. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, AUG 2020, vol. 10, no. 8, p. 2565-2572., Registrované v: WOS
40. [1.1] WEE, C.Y. - TAMIZI, A.A. - NAZARUDDIN, N.H. - NG, S.M. - KHOO, J.S. - JAJULI, R. First Draft Genome Assembly of the Malaysian Stingless Bee, Heterotrigona itama (Apidae, Meliponinae). In DATA. DEC 2020, vol. 5, no. 4., Registrované v: WOS
41. [1.1] YAGOUND, B. - REMNANT, E.J. - BUCHMANN, G. - OLDROYD, B.P. Intergenerational transfer of DNA methylation marks in the honey bee. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, DEC 22 2020, vol. 117, no. 51, p. 32519-32527., Registrované v: WOS

ADCA301 WIEDORN, M.O. - OBERTHÜR, D. - BEAN, R. - SCHUBERT, R. - WERNER, N. - BARÁK, Imrich. Megahertz serial crystallography. In Nature Communications, 2018, vol. 9, no. 4025. (2017: 12.353 - IF, Q1 - JCR, 6.582 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-018-06156-7

Citácie:
1. [1.1] CAO, Y. - SHEYFER, D. - JIANG, Z. - MADDALI, S. - YOU, H. - WANG, B.X. - YE, Z.G. - DUFRESNE, E.M. - ZHOU, H. - STEPHENSON, G.B. - HRUSZKEWYCZ, S.O. The Effect of Intensity Fluctuations on Sequential X-ray Photon Correlation Spectroscopy at the X-ray Free Electron Laser Facilities. In CRYSTALS. ISSN 2073-4352, DEC 2020, vol. 10, no. 12., Registrované v: WOS
2. [1.1] CHEN, Y. - KRASILNIKOV, M. - GROSS, M. - HUANG, P. - ISAEV, I. - KOSCHITZKI, C. - LI, X.K. - LISHILIN, O. - LOISCH, G. - NIEMCZYK, R. - OPPELT, A. - QIAN, H.J. - SHU, G. -

STEPHAN, F. - VASHCHENKO, G. Budgeting the emittance of photoemitted electron beams in a space-charge affected emission regime for free-electron laser applications. In AIP ADVANCES. MAR 1 2020, vol. 10, no. 3., Registrované v: WOS
3. [1.1] CHENG, R.K.Y. Towards an Optimal Sample Delivery Method for Serial Crystallography at XFEL. In CRYSTALS. ISSN 2073-4352, MAR 2020, vol. 10, no. 3., Registrované v: WOS
4. [1.1] EA, J.C. - HAFNER, A. - KLUYVER, T. - BERTELSEN, M. - KAHALY, M.U. - LECZ, Z. - NOURBAKHSH, S. - MANCUSO, A.P. - FORTMANN-GROTE, C. VINYL: The VIrtual Neutron and x-raY Laboratory and its applications. In ADVANCES IN COMPUTATIONAL METHODS FOR X-RAY OPTICS V. ISSN 0277-786X, 2020, vol. 11493., Registrované v: WOS
5. [1.1] ELEJALDE-CADENA, N.R. - CUELLAR-CRUZ, M. - MORENO, A. The role of silica and alkaline earth metals with biomolecules in the biomineralization processes: the eggshell';s formation and the crystallization in vivo for x-ray crystallography. In PROGRESS IN CRYSTAL GROWTH AND CHARACTERIZATION OF MATERIALS. ISSN 0960-8974, FEB 2020, vol. 66, no. 1., Registrované v: WOS
6. [1.1] KHAKUREL, K.P. - ESPINOZA, S. - SAVKO, M. - POLOVINKIN, V. - DOHNALEK, J. - SHEPARD, W. - ANGELOVA, A. - HAJDU, J. - ANDREASSON, J. - ANGELOV, B. Kilohertz Macromolecular Crystallography Using an EIGER Detector at Low X-ray Fluxes. In CRYSTALS. ISSN 2073-4352, DEC 2020, vol. 10, no. 12., Registrované v: WOS
7. [1.1] KIM, H.W. - BAEK, I.H. - SHIN, J. - PARK, S. - BARK, H.S. - OANG, K.Y. - JANG, K.H. - LEE, K. - VINOKUROV, N. - JEONG, Y.U. Method for developing a sub-10 fs ultrafast electron diffraction technology. In STRUCTURAL DYNAMICS-US. MAY 2020, vol. 7, no. 3., Registrované v: WOS
8. [1.1] LEVENSTEIN, M.A. - WAYMENT, L.E. - SCOTT, C.D. - LUNT, R.A. - FLANDRIN, P.B. - DAY, S.J. - TANG, C.C. - WILSON, C.C. - MELDRUM, F.C. - KAPUR, N. - ROBERTSON, K. Dynamic Crystallization Pathways of Polymorphic Pharmaceuticals Revealed in Segmented Flow with Inline Powder X-ray Diffraction. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, JUN 2 2020, vol. 92, no. 11, p. 7754-7761., Registrované v: WOS
9. [1.1] MEZA-GALVEZ, J. - GOMEZ-PEREZ, N. - MARSHALL, A.S. - COLEMAN, A.L. - APPEL, K. - LIERMANN, H.P. - MCMAHON, M.I. - KONOPKOVA, Z. - MCWILLIAMS, R.S. Thermomechanical response of thickly tamped targets and diamond anvil cells under pulsed hard x-ray irradiation. In JOURNAL OF APPLIED PHYSICS. ISSN 0021-8979, MAY 21 2020, vol. 127, no. 19., Registrované v: WOS
10. [1.1] MILLS, G. - BEAN, R. - MANCUSO, A.P. First Experiments in Structural Biology at the European X-ray Free-Electron Laser. In APPLIED SCIENCES-BASEL. MAY 2020, vol. 10, no. 10., Registrované v: WOS
11. [1.1] MORENO, A. New Trends in Protein Crystallization and Protein Crystallography. In CRYSTALS. ISSN 2073-4352, JAN 2020, vol. 10, no. 1., Registrované v: WOS
12. [1.1] NAZARI, R. - ZAARE, S. - ALVAREZ, R.C. - KARPOS, K. - ENGELMAN, T. - MADSEN, C. - NELSON, G. - SPENCE, J.C.H. - WEIERSTALL, U. - ADRIAN, R.J. - KIRIAN, R.A. 3D printing of gas-dynamic virtual nozzles and optical characterization of high-speed microjets. In OPTICS EXPRESS. ISSN 1094-4087, JUL 20 2020, vol. 28, no. 15, p. 21749-21765., Registrované v: WOS
13. [1.1] ORVILLE, A.M. Recent results in time resolved serial femtosecond crystallography at XFELs. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, DEC 2020, vol. 65, p. 193-208., Registrované v: WOS
14. [1.1] PASCARELLI, S. - MOLODTSOV, S. - TSCHENTSCHER, T. Creating a diverse international user facility. In NATURE REVIEWS PHYSICS. JUL 2020, vol. 2, no. 7, p. 337-339., Registrované v: WOS
15. [1.1] SHI, Y.C. - LIU, H.G. EM-detwin: A Program for Resolving Indexing Ambiguity in Serial Crystallography Using the Expectation-Maximization Algorithm. In CRYSTALS. ISSN 2073-4352, JUL 2020, vol. 10, no. 7., Registrované v: WOS
16. [1.1] STAN, C.A. - MOTOMURA, K. - BLAJ, G. - KUMAGAI, Y. - LI, Y.W. - YOU, D. - ONO, T. - KALITA, A. - TOGASHI, T. - OWADA, S. - TONO, K. - YABASHI, M. - KATAYAMA, T. - UEDA, K. The Magnitude and Waveform of Shock Waves Induced by X-ray Lasers in Water. In APPLIED SCIENCES-BASEL. FEB 2020, vol. 10, no. 4., Registrované v: WOS
17. [1.2] Petrova, T.E., Lunin, V.Y. Determination of the Structure of Biological Macromolecular Particles Using X-Ray Lasers. Achievements and Prospects In Mathematical Biology and Bioinformatics 15(2020), pp. 195-234, Registrované v: SCOPUS

ADCA302 ZÁMOCKÝ, Marcel - HOFBAUER, S. - SCHAFFNER, I. - GASSELHUBER, B. - NICOLUSSI, A. - SOUDI, M. - PIRKER, K.F. - FURTMULLER, P.G. - OBINGER, C. Independent evolution of four heme peroxidase superfamilies. In Archives of Biochemistry and Biophysics, 2015, vol. 574, p. 108–119. (2014: 3.017 - IF, Q2 - JCR, 1.381 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2014.12.025

Citácie:
1. [1.1] DHANKHAR, P. - DALAL, V. - MAHTO, J.K. - GURJAR, B.R. - TOMAR, S. - SHARMA, A.K. - KUMAR, P. Characterization of dye-decolorizing peroxidase from Bacillus subtilis. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, OCT 30 2020, vol. 693., Registrované v: WOS
2. [1.1] DI DATO, V. - BARBARINALDI, R. - AMATO, A. - DI COSTANZO, F. - FONTANAROSA, C. - PERNA, A. - AMORESANO, A. - ESPOSITO, F. - CUTIGNANO, A. - IANORA, A. - ROMANO, G. Variation in prostaglandin metabolism during growth of the diatom Thalassiosira rotula. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 25 2020, vol. 10, no. 1., Registrované v: WOS
3. [1.1] JAIN, K.K. - KUMAR, A. - SHANKAR, A. - PANDEY, D. - CHAUDHARY, B. - SHARMA, K.K. De novo transcriptome assembly and protein profiling of copper-induced lignocellulolytic fungus Ganoderma lucidum MDU-7 reveals genes involved in lignocellulose degradation and terpenoid biosynthetic pathways. In GENOMICS. ISSN 0888-7543, JAN 2020, vol. 112, no. 1, p. 184-198., Registrované v: WOS
4. [1.1] LINDE, D. - OLMEDO, A. - GONZALEZ-BENJUMEA, A. - ESTEVEZ, M. - RENAU-MINGUEZ, C. - CARRO, J. - FERNANDEZ-FUEYO, E. - GUTIERREZ, A. - MARTINEZ, A.T. Two New Unspecific Peroxygenases from Heterologous Expression of Fungal Genes in Escherichia coli. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, APR 2020, vol. 86, no. 7., Registrované v: WOS
5. [1.1] MA, C.P. - GUO, Z.M. - ZHANG, F.L. - SU, J.Y. Molecular identification, expression and function analysis of peroxidasin in Chilo suppressalis. In INSECT SCIENCE. ISSN 1672-9609, DEC 2020, vol. 27, no. 6, p. 1173-1185., Registrované v: WOS
6. [1.1] MOLDES, C.A. - CANTARELLI, M.A. - HEREDIA, J.Z. - CAMINA, J.M. Multivariate Analysis Reveals Different Responses of Antioxidant Defense in Wheat Plants Exposed to Arsenic (As) and Cadmium (Cd). In CURRENT ANALYTICAL CHEMISTRY. ISSN 1573-4110, 2020, vol. 16, no. 8, p. 1071-1078., Registrované v: WOS
7. [1.1] NEUMANN, B. - WOLLENBERGER, U. Electrochemical Biosensors Employing Natural and Artificial Heme Peroxidases on Semiconductors. In SENSORS. JUL 2020, vol. 20, no. 13., Registrované v: WOS
8. [1.1] SAMAVARCHI-TEHRANI, P. - SAMSON, R. - GINGRAS, A.C. Proximity Dependent Biotinylation: Key Enzymes and Adaptation to Proteomics Approaches. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, MAY 2020, vol. 19, no. 5, p. 757-773., Registrované v: WOS
9. [1.1] ZHANG, J.J. - HAO, H.B. - WU, X.L. - WANG, Q. - CHEN, M.J. - FENG, Z.Y. - CHEN, H. The functions of glutathione peroxidase in ROS homeostasis and fruiting body development in Hypsizygus marmoreus. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, DEC 2020, vol. 104, no. 24, p. 10555-10570., Registrované v: WOS
10. [1.2] CHAUDHARY, Ira - VERMA, Smita Rastogi. Ligninolysis: Roles of microbes and their extracellular enzymes. In Microbial Bioremediation & Biodegradation, 2020-01-01, pp. 393-407., Registrované v: SCOPUS
11. [1.2] COMYN, Sophie A. - MAGNUSON, Jon K. Molecular and Genetic Strategies for Enhanced Production of Heterologous Lignocellulosic Enzymes. In Grand Challenges in Biology and Biotechnology. ISSN 23671017, 2020-01-01, pp. 281-313., Registrované v: SCOPUS

ADCA303 ZÁMOCKÝ, Marcel - GASSELHUBER, B. - FURTMULLER, P.G. - OBINGER, C. Turning points in the evolution of peroxidase–catalase superfamily: molecular phylogeny of hybrid heme peroxidases. In Cellular and Molecular Life Sciences, 2014, vol. 71, p. 4681–4696. (2013: 5.856 - IF, Q1 - JCR, 3.301 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-014-1643-y

Citácie:
1. [1.1] ABRAHAM, A. - MATHEW, A.K. - PARK, H. - CHOI, O. - SINDHU, R. - PARAMESWARAN, B. - PANDEY, A. - PARK, J.H. - SANG, B.I. Pretreatment strategies for enhanced biogas production from lignocellulosic biomass. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, APR 2020, vol. 301., Registrované v: WOS
2. [1.1] LIU, C.L. - WANG, X.L. Superoxide dismutase and ascorbate peroxidase genes in Antarctic endemic brown alga Ascoseira mirabilis (Ascoseirales, Phaeophyceae): data mining of a de novo transcriptome. In BOTANICA MARINA. ISSN 0006-8055, DEC 2020, vol. 63, no. 6, p. 541-549., Registrované v: WOS
3. [1.1] OLSON, K.R. Are Reactive Sulfur Species the New Reactive Oxygen Species?. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, DEC 1 2020, vol. 33, no. 16, p. 1125-1142., Registrované v: WOS
4. [1.1] SKODOVA-SVERAKOVA, I. - ZAHONOVA, K. - BUCKOVA, B. - FUSSY, Z. - YURCHENKO, V. - LUKES, J. Catalase and Ascorbate Peroxidase in Euglenozoan Protists. In

PATHOGENS. APR 2020, vol. 9, no. 4., Registrované v: WOS
5. [1.2] KREWALL, Jessica R. - MINTON, Laura E. - GOODWIN, Douglas C. KatG Structure and Mechanism: Using Protein-Based Oxidation to Confront the Threats of Reactive Oxygen. In ACS Symposium Series. ISSN 00976156, 2020-01-01, 1357, pp. 83-120., Registrované v: SCOPUS

ADCA304 ZÁMOCKÝ, Marcel - DROGHETTTI, Enrica - BELLEI, M. - GASSELHUBER, B. - PABST, M. - FURTMULLER, P.G. - BATTISTUZZI, G. - SMULEVICH, Giulietta - OBINGER, C. Eukaryotic extracellular catalase-peroxidase from Magnaporthe grisea - Biophysical/chemical characterization of the first representative from a novel phytopathogenic KatG group. In Biochimie, 2012, vol. 94, p. 673-683. (2011: 3.022 - IF, Q2 - JCR, 1.383 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0300-9084. Dostupné na: https://doi.org/10.1016/j.biochi.2011.09.020

Citácie:
1. [1.2] KREWALL, Jessica R. - MINTON, Laura E. - GOODWIN, Douglas C. KatG Structure and Mechanism: Using Protein-Based Oxidation to Confront the Threats of Reactive Oxygen. In ACS Symposium Series. ISSN 00976156, 2020-01-01, 1357, pp. 83-120., Registrované v: SCOPUS

ADCA305 ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Evolution of structure and function of Class I peroxidases. In Archives of Biochemistry and Biophysics, 2010, vol. 500, p. 45-57. (2009: 3.046 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2010.03.024

Citácie:
1. [1.1] LIU, C.L. - WANG, X.L. Superoxide dismutase and ascorbate peroxidase genes in Antarctic endemic brown alga Ascoseira mirabilis (Ascoseirales, Phaeophyceae): data mining of a de novo transcriptome. In BOTANICA MARINA. ISSN 0006-8055, DEC 2020, vol. 63, no. 6, p. 541-549., Registrované v: WOS
2. [1.1] SAMAVARCHI-TEHRANI, P. - SAMSON, R. - GINGRAS, A.C. Proximity Dependent Biotinylation: Key Enzymes and Adaptation to Proteomics Approaches. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, MAY 2020, vol. 19, no. 5, p. 757-773., Registrované v: WOS
3. [1.2] LÜTHJE, Sabine - RAMANATHAN, Kalaivani. In Silico Analysis of Class III Peroxidases: Hypothetical Structure, Ligand Binding Sites, Posttranslational Modifications, and Interaction with Substrates. In Methods in Molecular Biology. ISSN 10643745, 2020-01-01, 2139, pp. 325-339., Registrované v: SCOPUS

ADCA306 ZÁMOCKÝ, Marcel. Phylogenetic relationships in class I of the superfamily of bacterial, fungal, and plant peroxidases. In European Journal of Biochemistry, 2004, vol. 271, p. 3297-3309. (2003: 3.001 - IF).

Citácie:
1. [1.1] ZHANG, H.M. - GE, X.P. - LIU, B. - TENG, T. - ZHOU, Q.L. - SUN, C.X. - SONG, C.Y. Comparative transcriptomic and proteomic analysis of the antibacterial activity of emodin on Aeromonas hydrophila. In AQUACULTURE. ISSN 0044-8486, DEC 15 2020, vol. 529., Registrované v: WOS

ADCA307 ZÁMOCKÝ, Marcel - REGELSBERGER, G. - JAKOPITSCH, C. - OBINGER, C. The molecular peculiarities of catalase-peroxidases. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 2001, vol. 492, p. 177-182. ISSN 1873-3468.

Citácie:
1. [1.1] ALGHAMDI, Y.S. - SOLIMAN, M.M. - NASSAN, M.A. Impact of Lesinurad and allopurinol on experimental Hyperuricemia in mice: biochemical, molecular and Immunohistochemical study. In BMC PHARMACOLOGY & TOXICOLOGY. FEB 10 2020, vol. 21, no. 1, 10., Registrované v: WOS
2. [1.2] KREWALL, Jessica R. - MINTON, Laura E. - GOODWIN, Douglas C. KatG Structure and Mechanism: Using Protein-Based Oxidation to Confront the Threats of Reactive Oxygen. In ACS Symposium Series. ISSN 00976156, 2020-01-01, 1357, pp. 83-120., Registrované v: SCOPUS

ADCA308 ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Evolution of catalases from bacteria to humans. In Antioxidants & Redox Signaling, 2008, vol. 10, p. 1527-1547. (2007: 5.484 - IF, Q1 - JCR, 2.690 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1523-0864.

Citácie:
1. [1.1] ANTSOTEGI-USKOLA, M. - MARKINA-INARRAIRAEGUI, A. - UGALDE, U. Copper Homeostasis in Aspergillus nidulans Involves Coordinated Transporter Function, Expression and Cellular Dynamics. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, NOV 17 2020, vol. 11., Registrované v: WOS
2. [1.1] DINAKAR, M. - TAO, W.D. - DALEY, D. Using hydrogen peroxide to supplement oxygen for nitrogen removal in constructed wetlands. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. DEC 2020, vol. 8, no. 6., Registrované v: WOS
3. [1.1] DONG, K. - PAN, H.X. - YANG, D. - RAO, L. - ZHAO, L. - WANG, Y.T. - LIAO, X.J.

Induction, detection, formation, and resuscitation of viable but non-culturable state microorganisms. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, JAN 2020, vol. 19, no. 1, p. 149-183., Registrované v: WOS

4. [1.1] FAN, G.D. - ZHOU, J.J. - ZHENG, X.M. - LUO, J. - HONG, L. - QU, F.S. Fast photocatalytic inactivation of Microcystis aeruginosa by metal-organic frameworks under visible light. In CHEMOSPHERE. ISSN 0045-6535, JAN 2020, vol. 239., Registrované v: WOS

5. [1.1] GAO, L.H. - ZHOU, Z.F. - CHEN, X.N. - ZHANG, W. - LIN, M. - CHEN, M. Comparative Proteomics Analysis Reveals New Features of the Oxidative Stress Response in the Polyextremophilic Bacterium Deinococcus radiodurans. In MICROORGANISMS. MAR 2020, vol. 8, no. 3., Registrované v: WOS

6. [1.1] GERNA, D. - ROACH, T. - MITTER, B. - STOGGL, W. - KRANNER, I. Hydrogen Peroxide Metabolism in Interkingdom Interaction Between Bacteria and Wheat Seeds and Seedlings. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, FEB 2020, vol. 33, no. 2, p. 336-348., Registrované v: WOS

7. [1.1] GHOBADI, R. - DIVSALAR, A. Enzymatic behavior of bovine liver catalase in aqueous medium of sugar based deep eutectic solvents. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, JUL 15 2020, vol. 310., Registrované v: WOS

8. [1.1] HADI, Z.K. - AL-MAAMORI, J.A.I. Evaluation Some Oxidants - Enzymatic Endogenous Antioxidants Status among Women Patients with Polycystic Ovary Syndrome. In 8TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCE AND TECHNOLOGY (ICAST 2020). ISSN 0094-243X, 2020, vol. 2290., Registrované v: WOS

9. [1.1] HANAOKA, Y. - KIMOTO, H. - YOSHIMUME, K. - HARA, I. - MATSUYAMA, H. - YUMOTO, I. Relationship Between Main Channel Structure of Catalases and the Evolutionary Direction in Cold-Adapted Hydrogen Peroxide-Tolerant Exiguobacteium and Psychrobacter. In INDIAN JOURNAL OF MICROBIOLOGY. ISSN 0046-8991, SEP 2020, vol. 60, no. 3, p. 353-362., Registrované v: WOS

10. [1.1] KAUR, G. - SHARMA, S. - DAS, N. Comparison of catalase activity in different organs of the potato (Solanum tuberosum L.) cultivars grown under field condition and purification by three-phase partitioning. In ACTA PHYSIOLOGIAE PLANTARUM. ISSN 0137-5881, JAN 7 2020, vol. 42, no. 1., Registrované v: WOS

*11. [1.1] KELEMEN, D. - MAY, N.V. - ANDRASI, M. - GASPAR, A. - FABIAN, I. - LIHI, N. High Enzyme Activity of a Binuclear Nickel Complex Formed with the Binding Loops of the NiSOD Enzyme**. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, DEC 15 2020, vol. 26, no. 70, p. 16767-16773., Registrované v: WOS*

12. [1.1] KHMELEVTSOVA, L.E. - SAZYKIN, I.S. - AZHOGINA, T.N. - SAZYKINA, M.A. Prokaryotic Peroxidases and Their Application in Biotechnology (Review). In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, JUL 2020, vol. 56, no. 4, p. 373-380., Registrované v: WOS

13. [1.1] KRIPLI, B. - GARDA, Z. - SOLYOM, B. - TIRCSO, G. - KAIZER, J. Formation, stability and catalase-like activity of mononuclear manganese(ii) and oxomanganese(iv) complexes in protic and aprotic solvents. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, APR 14 2020, vol. 44, no. 14, p. 5545-5555., Registrované v: WOS

14. [1.1] LI, Y. - ZHAO, X.L. - JIANG, X.M. - CHEN, L. - HONG, L. - ZHUO, Y. - LIN, Y. - FANG, Z.F. - CHE, L.Q. - FENG, B. - XU, S.Y. - LI, J. - WU, D. Effects of dietary supplementation with exogenous catalase on growth performance, oxidative stress, and hepatic apoptosis in weaned piglets challenged with lipopolysaccharide. In JOURNAL OF ANIMAL SCIENCE. ISSN 0021-8812, MAR 2020, vol. 98, no. 3., Registrované v: WOS

15. [1.1] LI, Y. - ZHAO, X.L. - ZHANG, L.J. - ZHAN, X.Y. - LIU, Z.G. - ZHUO, Y. - LIN, Y. - FANG, Z.F. - CHE, L.Q. - FENG, B. - XU, S.Y. - LI, J. - WU, D. Effects of a Diet Supplemented with Exogenous Catalase from Penicillium notatum on Intestinal Development and Microbiota in Weaned Piglets. In MICROORGANISMS. MAR 2020, vol. 8, no. 3., Registrované v: WOS

16. [1.1] LOPES, R.M. - HAUSER-DAVIS, R.A. - OLIVEIRA, M.M. - PIERINI, M.F. - DE SOUZA, C.A.M. - CAVALCANTE, A.L.M. - DOS SANTOS, C.R. - COMARU, M.W. - TINOCA, L.A.D. Principles of problem-based learning for training and professional practice in ecotoxicology. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, FEB 1 2020, vol. 702., Registrované v: WOS

17. [1.1] LYALL, R. - NIKOLOSKI, Z. - GECHEV, T. Comparative Analysis of ROS Network Genes in Extremophile Eukaryotes. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2020, vol. 21, no. 23., Registrované v: WOS

18. [1.1] PENG, Y.Z. - ZHANG, Z. - WANG, M. - SHI, X.P. - ZHOU, Y.Y. - ZHOU, Y.H. - KONG, Y. Inactivation of harmful Anabaena flos-aquae by ultrasound irradiation: Cell disruption mechanism and enhanced coagulation. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, DEC 2020, vol. 69., Registrované v: WOS

19. [1.1] QI, H.Z. - WANG, W.Z. - HE, J.Y. - MA, Y. - XIAO, F.Z. - HE, S.Y. Antioxidative system of Deinococcus radiodurans. In RESEARCH IN MICROBIOLOGY. ISSN 0923-2508, MAR 2020, vol. 171, no. 2, p. 45-54., Registrované v: WOS
20. [1.1] RAVANFAR, R. - ABBASPOURRAD, A. The molecular mechanism of the photocatalytic oxidation reactions by horseradish peroxidase in the presence of histidine. In GREEN CHEMISTRY. ISSN 1463-9262, SEP 21 2020, vol. 22, no. 18, p. 6105-6114., Registrované v: WOS
21. [1.1] SAHIN, T.D. - GOCMEZ, S.S. - DURUKSU, G. - YAZIR, Y. - UTKAN, T. Resveratrol and quercetin attenuate depressive-like behavior and restore impaired contractility of vas deferens in chronic stress-exposed rats: involvement of oxidative stress and inflammation. In NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY. ISSN 0028-1298, MAY 2020, vol. 393, no. 5, p. 761-775., Registrované v: WOS
22. [1.1] SALEH, K.M.M. - TARKHAN, A.H. - AL-ZGHOUL, M.B. Embryonic Thermal Manipulation Affects the Antioxidant Response to Post-Hatch Thermal Exposure in Broiler Chickens. In ANIMALS. ISSN 2076-2615, JAN 2020, vol. 10, no. 1., Registrované v: WOS
23. [1.1] TRIPATHI, D. - NAM, A. - OLDENBURG, D.J. - BENDICH, A.J. Reactive Oxygen Species, Antioxidant Agents, and DNA Damage in Developing Maize Mitochondria and Plastids. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, MAY 19 2020, vol. 11., Registrované v: WOS
24. [1.1] WANG, T.H. - WANG, X.W. - ZHU, X.Q. - HE, Q. - GUO, L.Y. A proper PiCAT2 level is critical for sporulation, sporangium function, and pathogenicity of Phytophthora infestans. In MOLECULAR PLANT PATHOLOGY. ISSN 1464-6722, APR 2020, vol. 21, no. 4, p. 460-474., Registrované v: WOS
25. [1.1] XU, L. - YANG, J. - XU, M. - SHAN, D. - WU, Z.D. - YUAN, D.J. Speciation and adaptive evolution reshape antioxidant enzymatic system diversity across the phylum Nematoda. In BMC BIOLOGY. NOV 26 2020, vol. 18, no. 1., Registrované v: WOS
26. [1.1] YU, X.B. - HAO, K. - LING, F. - ZHU, B. - WANG, G.X. In vivo antiviral efficacy of moroxydine hydrochloride against grass carp reovirus and the drug safety assessment. In AQUACULTURE RESEARCH. ISSN 1355-557X, APR 2020, vol. 51, no. 4, p. 1592-1601., Registrované v: WOS
27. [1.2] DUAN, Jiabin - LIU, Qingqing - SU, Sodgerel - CHA, Joonseok - ZHOU, Yike - TANG, Ruiqi - LIU, Xiao - WANG, Ying - LIU, Yi - HE, Qun. The Neurospora RNA polymerase II kinase CTK negatively regulates catalase expression in a chromatin context-dependent manner. In Environmental Microbiology. ISSN 14622912, 2020-01-01, 22, 1, pp. 76-90., Registrované v: SCOPUS
28. [1.2] GULERI, Sakshi - TIWARI, Archana. Algae and ageing. In Microalgae Biotechnology for Food, Health and High Value Products, 2020-01-01, pp. 267-293., Registrované v: SCOPUS
29. [1.2] ZHOU, Michael - BAI, Yongsheng. Bioinf-PHP: Bioinformatics Pipeline for Protein Homology and Phylogeny. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2020-01-01, 12403 LNCS, pp. 261-269., Registrované v: SCOPUS

ADCA309 ZÁMOCKÝ, Marcel - JAKOPITSCH, C. - FURTMULLER, P.G. - DUNAND, C. - OBINGER, C. The peroxidase-cyclooxygenase superfamily:Reconstructed evolution of critical enzymes of the innate immune system. In Proteins : structure function and bioinformatics, 2008, vol. 72, p. 589-605. (2007: 3.354 - IF, Q2 - JCR, 2.165 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0887-3585.

Citácie:

1. [1.1] BHUNIA, S. - RANA, A. - DEY, S.G. - IVANCICH, A. - DEY, A. A designed second-sphere hydrogen-bond interaction that critically influences the O-O bond activation for heterolytic cleavage in ferric iron-porphyrin complexes. In CHEMICAL SCIENCE. ISSN 2041-6520, MAR 14 2020, vol. 11, no. 10, p. 2681-2695., Registrované v: WOS
2. [1.1] DI DATO, V. - BARBARINALDI, R. - AMATO, A. - DI COSTANZO, F. - FONTANAROSA, C. - PERNA, A. - AMORESANO, A. - ESPOSITO, F. - CUTIGNANO, A. - IANORA, A. - ROMANO, G. Variation in prostaglandin metabolism during growth of the diatom Thalassiosira rotula. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAR 25 2020, vol. 10, no. 1., Registrované v: WOS
3. [1.1] OLIW, E.H. Linoleate diol synthase related enzymes of the human pathogens Histoplasma capsulatum and Blastomyces dermatitidis. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, DEC 15 2020, vol. 696., Registrované v: WOS
4. [1.1] VALERO, Y. - LOPEZ-CANOVAS, A.E. - RODENAS, M.C. - CABAS, I. - GARCIA-HERNANDEZ, P. - ARIZCUN, M. - GARCIA-AYALA, A. - CHAVES-POZO, E. Endocrine disrupter chemicals affect the humoral antimicrobial activities of gilthead seabream males even upon the cease of the exposure. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 14 2020, vol. 10, no. 1, 7960., Registrované v: WOS

5. [1.1] ZHAO, D.F. - LI, Y. - SHAN, Z.Y. - TENG, W.P. - LI, J. - TENG, X.C. Functional analysis of thyroid peroxidase gene mutations resulting in congenital hypothyroidism. In CLINICAL ENDOCRINOLOGY. ISSN 0300-0664, OCT 2020, vol. 93, no. 4, p. 499-507., Registrované v: WOS

6. [1.2] GULERI, Sakshi - TIWARI, Archana. Algae and ageing. In Microalgae Biotechnology for Food, Health and High Value Products, 2020-01-01, pp. 267-293., Registrované v: SCOPUS

ADCA310 ZÁMOCKÝ, Marcel - GASSELHUBER, B. - FURTMULLER, P.G. - OBINGER, C. Molecular evolution of hydrogen peroxide degrading enzymes. In Archives of Biochemistry and Biophysics, 2012, vol. 525, p. 131-144. (2011: 2.935 - IF, Q2 - JCR, 1.390 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2012.01.017

Citácie:

1. [1.1] BALLAL, A. - CHAKRAVARTY, D. - BIHANI, S.C. - BANERJEE, M. Gazing into the remarkable world of non-heme catalases through the window of the cyanobacterial Mn-catalase ';KatB';. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, NOV 20 2020, vol. 160, p. 480-487., Registrované v: WOS

2. [1.1] BRUDZYNSKI, K. A current perspective on hydrogen peroxide production in honey. A review. In FOOD CHEMISTRY. ISSN 0308-8146, DEC 1 2020, vol. 332., Registrované v: WOS

3. [1.1] FLOHE, L. Looking Back at the Early Stages of Redox Biology. In ANTIOXIDANTS. DEC 2020, vol. 9, no. 12, 1254., Registrované v: WOS

4. [1.1] FOYER, C.H. - NOCTOR, G. Redox Homeostasis and Signaling in a Higher-CO2 World. In ANNUAL REVIEW OF PLANT BIOLOGY, VOL 71, 2020. ISSN 1543-5008, 2020, vol. 71, p. 157-182., Registrované v: WOS

5. [1.1] HANAOKA, Y. - KIMOTO, H. - YOSHIMUME, K. - HARA, I. - MATSUYAMA, H. - YUMOTO, I. Relationship Between Main Channel Structure of Catalases and the Evolutionary Direction in Cold-Adapted Hydrogen Peroxide-Tolerant Exiguobacteium and Psychrobacter. In INDIAN JOURNAL OF MICROBIOLOGY. ISSN 0046-8991, SEP 2020, vol. 60, no. 3, p. 353-362., Registrované v: WOS

6. [1.1] KAMENIAROVA, M. - KOPECKA, R. Catalase: Bioinformatics analyses of one of the key enzymes in hydrogen peroxide metabolism. In MENDELNET 2019: PROCEEDINGS OF 26TH INTERNATIONAL PHD STUDENTS CONFERENCE. 2019, p. 425-430., Registrované v: WOS

7. [1.1] LUSTY, M.W. - GOBLER, C.J. The Efficacy of Hydrogen Peroxide in Mitigating Cyanobacterial Blooms and Altering Microbial Communities across Four Lakes in NY, USA. In TOXINS. JUL 2020, vol. 12, no. 7., Registrované v: WOS

8. [1.1] MA, C.P. - GUO, Z.M. - ZHANG, F.L. - SU, J.Y. Molecular identification, expression and function analysis of peroxidasin in Chilo suppressalis. In INSECT SCIENCE. ISSN 1672-9609, DEC 2020, vol. 27, no. 6, p. 1173-1185., Registrované v: WOS

9. [1.1] NAVA-RAMIREZ, T. - HANSBERG, W. Chaperone activity of large-size subunit catalases. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, AUG 20 2020, vol. 156, p. 99-106., Registrované v: WOS

10. [1.1] NEUBECK, A. - FREUND, F. Sulfur Chemistry May Have Paved the Way for Evolution of Antioxidants. In ASTROBIOLOGY. ISSN 1531-1074, MAY 1 2020, vol. 20, no. 5, p. 670-675., Registrované v: WOS

11. [1.1] PARK, J.C. - CHOI, B.S. - KIM, M.S. - SHI, H.H. - ZHOU, B.S. - PARK, H.G. - LEE, J.S. The genome of the marine rotifer Brachionus koreanus sheds light on the antioxidative defense system in response to 2-ethyl-phenanthrene and piperonyl butoxide. In AQUATIC TOXICOLOGY. ISSN 0166-445X, APR 2020, vol. 221, 105443., Registrované v: WOS

12. [1.1] PEDONE, E. - FIORENTINO, G. - BARTOLUCCI, S. - LIMAURO, D. Enzymatic Antioxidant Signatures in Hyperthermophilic Archaea. In ANTIOXIDANTS. AUG 2020, vol. 9, no. 8, 703., Registrované v: WOS

13. [1.1] SARTORI, M.G. - REPIZO, G.D. - CORTEZ, N. Catalases of the polyextremophylic Andean isolateAcinetobactersp. Ver 3 confer adaptive response to H(2)O(2)and UV radiation. In FEBS JOURNAL. ISSN 1742-464X, OCT 2020, vol. 287, no. 20, p. 4525-4539., Registrované v: WOS

14. [1.1] TONDO, M.L. - DE PEDRO-JOVE, R. - VANDECAVEYE, A. - PISKULIC, L. - ORELLANO, E.G. - VALLS, M. KatE From the Bacterial Plant PathogenRalstonia solanacearumIs a Monofunctional Catalase Controlled by HrpG That Plays a Major Role in Bacterial Survival to Hydrogen Peroxide. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, JUL 31 2020, vol. 11, 1156., Registrované v: WOS

ADCA311 ZÁMOCKÝ, Marcel - GARCIA-FERNANDEZ, Q. - GASSELHUBER, B. - JAKOPITSCH, C. - FURTMULLER, P.G. - LOEWEN, P.C. - FITA, I. - OBINGER, C. - CARPENA, X. High conformational stability of secreted eukaryotic catalase-peroxidases. In Journal of Biological Chemistry, 2012, vol. 287, p. 32254-32262. (2011: 4.773 - IF, Q1 - JCR, 3.544 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0021-9258. Dostupné na:

https://doi.org/10.1074/jbc.M112.384271

Citácie:

1. [1.1] WU, S.J. - GUO, Y.S. - JOAN, H.I. - TU, Y.G. - ADIL, M.F. - SEHAR, S. - ZHAO, D.G. - SHAMSI, I.H. iTRAQ-based comparative proteomic analysis reveals high temperature accelerated leaf senescence of tobacco (Nicotiana tabacum L.) during flue-curing. In GENOMICS. ISSN 0888-7543, SEP 2020, vol. 112, no. 5, p. 3075-3088., Registrované v: WOS

ADCA312 ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Two distinct groups of fungal catalase/peroxidases. In Biochemical Society Transactions, 2009, vol. 37, p. 772-777. (2008: 2.979 - IF, Q2 - JCR, 2.247 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0300-5127.

Citácie:

1. [1.1] ZHENG, P.J. - CHEN, L.Y. - ZHONG, S.Y. - WEI, X.B. - ZHAO, Q. - PAN, Q.L. - KANG, Z.S. - LIU, J. A Cu-only superoxide dismutase from stripe rust fungi functions as a virulence factor deployed for counter defense against host-derived oxidative stress. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, DEC 2020, vol. 22, no. 12, p. 5309-5326., Registrované v: WOS

ADCA313 ZÁMOCKÝ, Marcel - JANEČEK, Štefan - OBINGER, C. Fungal Hybrid B heme peroxidases - unique fusions of a heme peroxidase domain with a carbohydrate-binding domain. In Scientific Reports, 2017, vol. 7, art. no. 9393. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-09581-8

Citácie:

1. [1.1] ZHANG, J.J. - HAO, H.B. - WU, X.L. - WANG, Q. - CHEN, M.J. - FENG, Z.Y. - CHEN, H. The functions of glutathione peroxidase in ROS homeostasis and fruiting body development in Hypsizygus marmoreus. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, DEC 2020, vol. 104, no. 24, p. 10555-10570., Registrované v: WOS

ADCA314 ZÁMOCKÝ, Marcel - HALLBERG, M. - LUDWIG, R. - DIVNE, C. - HALTRICH, D. Ancestral gene fusion in cellobiose dehydrogenases reflects a specific evolution of GMC oxidoreductases in fungi. In Gene, 2004, vol. 338, p. 1-14. ISSN 0378-1119.

Citácie:

1. [1.1] IGARASHI, K. - KANEKO, S. - KITAOKA, M. - SAMEJIMA, M. Effect of C-6 Methylol Groups on Substrate Recognition of Glucose/Xylose Mixed Oligosaccharides by Cellobiose Dehydrogenase from the Basidiomycete Phanerochaete chrysosporium. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2020, vol. 67, no. 2, p. 51-58., Registrované v: WOS

2. [1.1] KADOWAKI, M.A.S. - HIGASI, P.M.R. - DE GODOY, M.O. - DE ARAUJO, E.A. - GODOY, A.S. - PRADE, R.A. - POLIKARPOV, I. Enzymatic versatility and thermostability of a new aryl-alcohol oxidase from Thermothelomyces thermophilus M77. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, OCT 2020, vol. 1864, no. 10., Registrované v: WOS

ADCA315 ZÁMOCKÝ, Marcel - SCHUMANN, C. - SYGMUND, C. - CALLAGHAN, J.O. - DOBSON, A.D. - LUDWIG, R. - HALTRICH, D. - PETERBAUER, C.K. Cloning, sequence analysis and heterologous expression in Pichia pastoris of a gene encoding a thermostable cellobiose dehydrogenase from Myriococcum thermophilum. In Protein Expression and Purification, 2008, vol. 59, p. 258-265. (2007: 1.940 - IF, Q3 - JCR, 1.039 - SJR, Q2 - SJR). ISSN 1046-5928.

Citácie:

1. [1.1] BISSARO, B. - KOMMEDAL, E. - ROHR, A.K. - EIJSINK, V.G.H. Controlled depolymerization of cellulose by light-driven lytic polysaccharide oxygenases. In NATURE COMMUNICATIONS. ISSN 2041-1723, FEB 14 2020, vol. 11, no. 1., Registrované v: WOS

2. [1.1] GIOVANNONI, M. - GRAMEGNA, G. - BENEDETTI, M. - MATTEI, B. Industrial Use of Cell Wall Degrading Enzymes: The Fine Line Between Production Strategy and Economic Feasibility. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, APR 29 2020, vol. 8., Registrované v: WOS

3. [1.1] HERZOG, P.L. - BORGHI, E. - TRAXLMAYR, M.W. - OBINGER, C. - SIKES, H.D. - PETERBAUER, C.K. Developing a cell-bound detection system for the screening of oxidase activity using the fluorescent peroxide sensor roGFP2-Orp1. In PROTEIN ENGINEERING DESIGN & SELECTION. ISSN 1741-0126, 2020, vol. 33., Registrované v: WOS

4. [1.1] MONCLARO, A.V. - PETROVIC, D.M. - ALVES, G.S.C. - COSTA, M.M.C. - MIDORIKAWA, G.E.O. - MILLER, R.N.G. - FILHO, E.X.F. - EIJSINK, V.G.H. - VARNAI, A. Characterization of two family AA9 LPMOs fromAspergillus tamariiwith distinct activities on xyloglucan reveals structural differences linked to cleavage specificity. In PLOS ONE. ISSN 1932-6203, JUL 8 2020, vol. 15, no. 7., Registrované v: WOS

5. [1.1] RAI, R. - BASOTRA, N. - KAUR, B. - DI FALCO, M. - TSANG, A. - CHADHA, B.S.

Exoproteome profile reveals thermophilic fungus Crassicarpon thermophilum (strain 6GKB; syn. Corynascus thermophilus) as a rich source of cellobiose dehydrogenase for enhanced saccharification of bagasse. In BIOMASS & BIOENERGY. ISSN 0961-9534, JAN 2020, vol. 132., Registrované v: WOS

6. [1.1] TUVENG, T.R. - JENSEN, M.S. - FREDRIKSEN, L. - VAAJE-KOLSTAD, G. - EIJSINK, V.G.H. - FORSBERG, Z. A thermostable bacterial lytic polysaccharide monooxygenase with high operational stability in a wide temperature range. In BIOTECHNOLOGY FOR BIOFUELS. DEC 30 2020, vol. 13, no. 1., Registrované v: WOS

ADCA316 ZONA, R. - CHANG-PI-HIN, F. - O';DONOHUE, M.J. - JANEČEK, Štefan. Bioinformatics of the family 57 glycoside hydrolases and identification of catalytic residues in amylopullulanase from Thermococcus hydrothermalis. In European Journal of Biochemistry, 2004, vol. 271, p. 2863-2872. (2003: 3.001 - IF).

Citácie:

1. [1.1] BAN, X.F. - DHOBLE, A.S. - LI, C.M. - GU, Z.B. - HONG, Y. - CHENG, L. - HOLLER, T.P. - KAUSTUBH, B. - LI, Z.F. Bacterial 1,4-alpha-glucan branching enzymes: characteristics, preparation and commercial applications. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 2 2020, vol. 40, no. 3, p. 380-396., Registrované v: WOS

ADCA317 ZWEERS, J.C. - BARÁK, Imrich - BECHER, D. - DRIESSEN, A. - HECKER, M. - KONTINEN, V.P. - SALLER, M.J. - VAVROVÁ, Ľudmila - VAN DIJL, J.M. Towards the development of Bacillus subtilis as a cell factory for membrane proteins and protein complexes. In Microbial Cell Factories, 2008, vol. 7, p. 10. (2007: 3.360 - IF, Q1 - JCR, 1.151 - SJR, Q1 - SJR). ISSN 1475-2859.

Citácie:

1. [1.1] KIM, K. - CHOE, D. - LEE, D.H. - CHO, B.K. Engineering Biology to Construct Microbial Chassis for the Production of Difficult-to-Express Proteins. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. FEB 2020, vol. 21, no. 3, 990, Registrované v: WOS

2. [1.1] LV, P.H. - SONG, Y.Y. - LIU, C. - YU, L.P. - SHANG, Y.L. - TANG, H. - SUN, S.H. - WANG, F.K. Application of Bacillus subtilis as a live vaccine vector: A review. In JOURNAL OF VETERINARY MEDICAL SCIENCE. ISSN 0916-7250, NOV 2020, vol. 82, no. 11, p. 1693-1699., Registrované v: WOS

3. [1.1] SU, Y. - LIU, C. - FANG, H. - ZHANG, D.W. Bacillus subtilis: a universal cell factory for industry, agriculture, biomaterials and medicine. In MICROBIAL CELL FACTORIES. SEP 3 2020, vol. 19, no. 1, 173, Registrované v: WOS

4. [1.2] LIU, Yanfeng - SU, Anqi - TIAN, Rongzhen - LI, Jianghua - LIU, Long - DU, Guocheng. Developing rapid growing Bacillus subtilis for improved biochemical and recombinant protein production. In Metabolic Engineering Communications, 2020-12-01, 11, pp., Registrované v: SCOPUS

ADCA318 ZWIRZITZ, A. - REITER, M. - ŠKRABANA, Rostislav - OHRADANOVA-REPIC, A. - MAJDIC, O. - GUTEKOVÁ, Marianna - CEHLÁR, Ondrej - PETROVČÍKOVÁ, Eva - KUTEJOVÁ, Eva - STANEK, G. - STOCKINGER, H. - LEKSA, Vladimír**. Lactoferrin is a natural inhibitor of plasminogen activation. In Journal of Biological Chemistry, 2018, vol. 293, p. 8600-8613. (2017: 4.011 - IF, Q2 - JCR, 2.672 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.RA118.003145

Citácie:

1. [1.1] CAMPIONE, Elena - COSIO, Terenzio - ROSA, Luigi - LANNA, Caterina - DI GIROLAMO, Stefano - GAZIANO, Roberta - VALENTI, Piera - BIANCHI, Luca. Lactoferrin as Protective Natural Barrier of Respiratory and Intestinal Mucosa against Coronavirus Infection and Inflammation. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2020, vol. 21, no. 14, pp., Registrované v: WOS

2. [1.1] FAHEY, M. J. - FISCHER, A. J. - STEELE, M. A. - GREENWOOD, S. L. Characterization of the colostrum and transition milk proteomes from primiparous and multiparous Holstein dairy cows. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, 2020, vol. 103, no. 2, pp. 1993-2005., Registrované v: WOS

3. [1.1] GULEN, Burak - ROSSELIN, Marie - FAUSER, Joel - ALBERS, Michael F. - PETT, Christian - KRISP, Christoph - POGENBERG, Vivian - SCHLUETER, Hartmut - HEDBERG, Christian - ITZEN, Aymelt. Identification of targets of AMPylating Fic enzymes by co-substrate-mediated covalent capture. In NATURE CHEMISTRY. ISSN 1755-4330, 2020, vol. 12, no. 8, pp., Registrované v: WOS

4. [1.1] WANG, X.X. - HAN, R.W. - ZHAO, X.W. - HUANG, D.W. - ZHU, H.L. - WU, T. - QI, Y.X. - YANG, Y.X. - CHENG, G.L. Label-free quantitative proteomics analysis reveals the fate of colostrum proteins in the intestine of neonatal calves. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, NOV 2020, vol. 103, no. 11, p. 10823-10834., Registrované v: WOS

5. [1.1] WIDGEROW, Alan D. - JACOB, Carolyn - PALM, Melanie D. - GARRUTO, John A. - BELL, Michaela. Developing a Topical Adjunct to Injectable Procedures. In JOURNAL OF

DRUGS IN DERMATOLOGY. ISSN 1545-9616, 2020, vol. 19, no. 4, pp. 398-404., Registrované v: WOS

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

ADCB01 TRNČÍKOVÁ, T. - HRUŠKOVÁ, V. - ORAVCOVA, K. - PANGALLO, Domenico - KACLIKOVA, E. Rapid and sensitive detection of staphylococcus aureus in food using selective enrichment and real-time PCR targeting a new gene marker. In Food Analytical Methods, 2009, vol. 2, p. 241-250. (2008: Q4 - JCR, karentované - CCC). (2009 - Current Contents). ISSN 1936-9751. Dostupné na: https://doi.org/10.1007/s12161-008-9056-x

Citácie:

1. [1.1] ABEBE, E. - GUGSA, G. - AHMED, M. Review on Major Food-Borne Zoonotic Bacterial Pathogens. In JOURNAL OF TROPICAL MEDICINE. ISSN 1687-9686, JUN 29 2020, vol. 2020 , 4674235, Registrované v: WOS

2. [1.1] ASLAN, H. - EKINCI, A. - ASLAN, I. Nucleic Acid-Based Methods in the Detection of Foodborne Pathogens. In NATURAL REMEDIES FOR PEST, DISEASE AND WEED CONTROL. 2020, p. 143-161., Registrované v: WOS

3. [1.1] CHEN, L. - LENG, Y.K. - LIU, B. - LIU, J. - WAN, S.P. - WU, T. - YUAN, J.H. - SHAO, L.Y. - GU, G.Q. - FU, Y.Q. - XU, H.Y. - XIONG, Y.H. - HE, X.D. - WU, Q. Ultrahigh-sensitivity label-free optical fiber biosensor based on a tapered singlemode-no core-singlemode coupler for Staphylococcus aureus detection. In SENSORS AND ACTUATORS B-CHEMICAL. OCT 1 2020, vol. 320,, Registrované v: WOS

4. [1.1] YAO, S. - ZHAO, C. - LIU, Y.S. - NIE, H.R. - XI, G.L. - CAO, X.L. - LI, Z.L. - PANG, B. - LI, J. - WANG, J. Colorimetric Immunoassay for the Detection of Staphylococcus aureus by Using Magnetic Carbon Dots and Sliver Nanoclusters as o-Phenylenediamine-Oxidase Mimetics. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, APR 2020, vol. 13, no. 4, p. 833-838., Registrované v: WOS

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 BRNÁKOVÁ, Zuzana - GODÁNY, Andrej. Microbial sugar non-specific nucleases. In Biologia, 2002, vol. 57, p. 677-687. (2001: 0.208 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] SCHWARDMANN, L.S. - NOLLE, V. - ELLEUCHE, S. Bacterial non-specific nucleases of the phospholipase D superfamily and their biotechnological potential. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, APR 2020, vol. 104, no. 8, p. 3293-3304., Registrované v: WOS

ADDA02 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KALÁSZOVÁ, V. - KISOVÁ, Zuzana - PANGALLO, Domenico**. Essential oils against multidrug resistant gram-negative bacteria. In Biologia, 2018, vol. 73, p. 803–808. (2017: 0.696 - IF, Q4 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-018-0090-x

Citácie:

1. [1.1] OZOGUL, Y. - BOGA, E.K. - AKYOL, I. - DURMUS, M. - UCAR, Y. - REGENSTEIN, J.M. - KOSKER, A.R. Antimicrobial activity of thyme essential oil nanoemulsions on spoilage bacteria of fish and food-borne pathogens. In FOOD BIOSCIENCE. ISSN 2212-4292, AUG 2020, vol. 36., Registrované v: WOS

2. [1.1] YU, Z.H. - TANG, J. - KHARE, T. - KUMAR, V. The alarming antimicrobial resistance in ESKAPEE pathogens: Can essential oils come to the rescue?. In FITOTERAPIA. ISSN 0367-326X, JAN 2020, vol. 140., Registrované v: WOS

ADDA03 ČAPLOVÁ, Z. - PANGALLO, Domenico** - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - DRAHOVSKÁ, H. - BUČKOVÁ, Mária - KOREŇOVÁ, J. - KUCHTA, T. Detection of genes prtP, pepN, pepX and bcaT involved in formation. In Journal of Food and Nutrition Research, 2018, vol. 57, p. 195–200. (2017: 0.687 - IF, Q4 - JCR, 0.313 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1336-8672.

Citácie:

1. [1.1] STEFANIKOVA, J. - DUCKOVA, V. - MISKEJE, M. - KACANIOVA, M. - CANIGOVA, M. The Impact of Different Factors on the Quality and Volatile Organic Compounds Profile in "Bryndza" Cheese. In FOODS. SEP 2020, vol. 9, no. 9., Registrované v: WOS

2. [2.2] STEFANIKOVA, Jana - ARVAY, Julius - MIŠKEJE, Michal - KAČÁNIOVÁ, Miroslava. DETERMINATION OF VOLATILE ORGANIC COMPOUNDS IN SLOVAK BRYNDZA CHEESE

BY THE ELECTRONIC NOSE AND THE HEADSPACE SOLID-PHASE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2020-01-01, 14, pp. 767-773., Registrované v: SCOPUS

ADDA04 FERIANC, Peter - PUŠKÁROVÁ, Andrea - GODOČÍKOVÁ, Jana - POLEK, Bystrík - TOTH, D. The effect of cadmium on culturability, macromolecule synthesis and protein degradation in a marine Vibrio sp. In Biologia : journal of the Slovak Academy of Science, 2000, vol. 55, p. 653-659. (1999: 0.220 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] CHATTERJEE, S. - KUMARI, S. - RATH, S. - PRIYADARSHANEE, M. - DAS, S. Diversity, structure and regulation of microbial metallothionein: metal resistance and possible applications in sequestration of toxic metals. In METALLOMICS. ISSN 1756-5901, NOV 1 2020, vol. 12, no. 11, p. 1637-1655., Registrované v: WOS

ADDA05 HARICHOVÁ, Janka - KARELOVÁ, Edita - PANGALLO, Domenico - FERIANC, Peter. Structure analysis of bacterial community and their heavy-metal resistance determinants in the heavy-metal-contaminated soil sample. In Biologia, 2012, vol. 67, p. 1038-1048. (2011: 0.557 - IF, Q4 - JCR, 0.256 - SJR, Q3 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-012-0123-9

Citácie:

1. [1.1] DUAN, C.W. - LIU, Y. - ZHANG, H.G. - CHEN, G.Y. - SONG, J.F. Cadmium Pollution Impact on the Bacterial Community of Haplic Cambisols in Northeast China and Inference of Resistant Genera. In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. ISSN 0718-9508, SEP 2020, vol. 20, no. 3, p. 1156-1170., Registrované v: WOS

2. [1.1] RUTERE, C. - POSSELT, M. - HORN, M.A. Fate of Trace Organic Compounds in Hyporheic Zone Sediments of Contrasting Organic Carbon Content and Impact on the Microbiome. In WATER. DEC 2020, vol. 12, no. 12., Registrované v: WOS

3. [1.1] WANG, Q.Q. - HUANG, Q. - GUO, G.M. - QIN, J.M. - LUO, J.Y. - ZHU, Z.Q. - HONG, Y. - XU, Y.X. - HU, S. - HU, W. - YANG, C. - WANG, J.F. Reducing bioavailability of heavy metals in contaminated soil and uptake by maize using organic-inorganic mixed fertilizer. In CHEMOSPHERE. ISSN 0045-6535, DEC 2020, vol. 261., Registrované v: WOS

4. [1.1] YADAV, N. - SHARMA, S. Pollution shapes the bacterial community of a river: a case study. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, APR 2020, vol. 17, no. 4, p. 2003-2016., Registrované v: WOS

5. [1.2] PRADHAN, Sukanta Kumar - SINGH, Nihar Ranjan - KUMAR, Upendra - MISHRA, Samir R. - PERUMAL, Rajadurai Chinnasamy - BENNY, Jubina - THATOI, Hrudayanath. Illumina MiSeq based assessment of bacterial community structure and diversity along the heavy metal concentration gradient in Sukinda chromite mine area soils, India. In Ecological Genetics and Genomics, 2020-05-01, 15, pp., Registrované v: SCOPUS

ADDA06 HARICHOVÁ, Janka - KARELOVÁ, Edita - CHOVANOVÁ, Katarína - STOJNEV, T. - PROKSOVÁ, M. - BRINDZA, Ján - BRINDZA, P. - TÓTH, Dezider - PANGALLO, Domenico - FERIANC, Peter. Comparison of culturable gram-negative bacterial community structures in the rhizosphere of three fruit plants. In Biologia, 2006, vol. 61, p. 663-670. (2005: 0.240 - IF, Q4 - JCR, 0.246 - SJR, Q3 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] ANAND, G. - BISARIA, V.S. - SHARMA, S. Impact of abiotic stressors on native rhizospheric bacterial community of Cajanus cajan. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, JAN 2020, vol. 60, no. 1, SI, p. 4-13., Registrované v: WOS

ADDA07 HORVÁTHOVÁ, Viera - JANEČEK, Štefan - ŠTURDÍK, Ernest. Amylolytic enzymes: their specificities, origins and properties. In Biologia : journal of the Slovak Academy of Sciences, 2000, vol. 55, p. 605-615. (1999: 0.220 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] HASHIM, S.O. Starch-Modifying Enzymes. In ALKALIPHILES IN BIOTECHNOLOGY. ISSN 0724-6145, 2020, vol. 172, p. 221-244., Registrované v: WOS

2. [1.1] IRFAN, M. - BAKHTAWAR, J. - SADIA, S. - SHAKIR, H.A. - KHAN, M. - ALI, S. Utilization of fruit wastes for enzyme production in submerged fermentation. In INTERNATIONAL JOURNAL OF BIOLOGY AND CHEMISTRY. ISSN 2218-7979, 2020, vol. 13, no. 2, p. 88-95., Registrované v: WOS

3. [1.1] LATIP, D.N.H. - SAMSUDIN, H. - UTRA, U. - ALIAS, A. Modification methods toward the production of porous starch: a review. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398 (2020) p. 1-22 ., Registrované v: WOS

4. [1.1] LIEW, Y.X. - CHAN, Y.J. - MANICKAM, S. - CHONG, M.F. - CHONG, S. - TIONG, T.J. - LIM, J.W. - PAN, G.T. Enzymatic pretreatment to enhance anaerobic bioconversion of high strength wastewater to biogas: A review. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN

0048-9697, APR 15 2020, vol. 713., Registrované v: WOS

ADDA08 HOSTINOVÁ, Eva. Amylolytic enzymes produced by the yeast Saccharomycopsis fibuligera. In Biologia : journal of the Slovak Academy of Science, 2002, vol. 57, p. 247-251. (2001: 0.208 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.2] MOHANAN, Nisha - SATYANARAYANA, Tulasi. Amylases. In Encyclopedia of Microbiology, 2019-01-01, pp. 107-126., Registrované v: SCOPUS

2. [1.2] RAPOPORT, Alexander. Anhydrobiosis in non-conventional yeasts. In Non-conventional Yeasts: from Basic Research to Application, 2019-01-01, pp. 341-359., Registrované v: SCOPUS

ADDA09 CHOVANOVÁ, Katarína - ZÁMOCKÝ, Marcel. Detection of the antibacterial effect of Chaetomium cochliodes Palliser CCM F-232 based on agar plugs and unprocessed fungal substances from cultivation media. In Biologia, 2016, vol. 71, no. 11, p. 1204—1211. (2015: 0.719 - IF, Q4 - JCR, 0.329 - SJR, Q3 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.1515/biolog-2016-0153

Citácie:

1. [1.1] BELLINI, A. - FERROCINO, I. - CUCU, M.A. - PUGLIESE, M. - GARIBALDI, A. - GULLINO, M.L. A Compost Treatment Acts as a Suppressive Agent inPhytophthora capsici - Cucurbita pepoPathosystem by Modifying the Rhizosphere Microbiota. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, JUN 24 2020, vol. 11., Registrované v: WOS

ADDA10 JANEČEK, Štefan. How many conserved sequence regions are there in the alpha-amylase family? In Biologia : journal of the Slovak Academy of Science, 2002, vol. 57, suppl. p. 29-41. (2001: 0.208 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] ANDERSEN, S. - MOLLER, M.S. - POULSEN, J.C.N. - PICHLER, M.J. - SVENSSON, B. - LO LEGGIO, L. - GOH, Y.J. - ABOU HACHEM, M. An 1,4-alpha-Glucosyltransferase Defines a New Maltodextrin Catabolism Scheme in Lactobacillus acidophilus. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, AUG 2020, vol. 86, no. 15, e00661-20, Registrované v: WOS

2. [1.1] BALAKRISHNAN, D. - KUMAR, S.S. - SUGATHAN, S. Amylases for Food Applications-Updated Information. In GREEN BIO-PROCESSES: ENZYMES IN INDUSTRIAL FOOD PROCESSING. ISSN 2522-8366, 2019, p. 199-227., Registrované v: WOS

3. [1.1] IQRAR, U. - JAVAID, H. - ASHRAF, N. - AHMAD, A. - LATIEF, N. - SHAHID, A.A. - AHMAD, W. - IJAZ, B. Structural and Functional Analysis of Pullulanase Type 1 (PulA) from Geobacillus thermopakistaniensis. In MOLECULAR BIOTECHNOLOGY. ISSN 1073-6085, AUG 2020, vol. 62, no. 8, p. 370-379., Registrované v: WOS

4. [1.1] LAKSHMI, S.A. - SHAFREEN, R.B. - PRIYANGA, A. - SHIBURAJ, S. - PANDIAN, S.K. A highly divergent alpha-amylase from Streptomyces spp.: An evolutionary perspective. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 15 2020, vol. 163, p. 2415-2428., Registrované v: WOS

5. [1.1] RANE, A.S. - JOSHI, R.S. - GIRI, A.P. Molecular determinant for specificity: Differential interaction of alpha-amylases with their proteinaceous inhibitors. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, DEC 2020, vol. 1864, no. 12, 129703, Registrované v: WOS

6. [1.1] SALEM, K. - ELGHARBI, F. - BEN HLIMA, H. - PERDUCA, M. - SAYARI, A. - HMIDA-SAYARI, A. Biochemical characterization and structural insights into the high substrate affinity of a dimeric and Ca2+ independent Bacillus subtilis alpha-amylase. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, JUL 2020, vol. 36, no. 4, e2964., Registrované v: WOS

7. [1.1] SUZUKI, R. - SUZUKI, E. Structure and Function of Branching Enzymes in Eukaryotes. In TRENDS IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 0915-7352, JAN 2020, vol. 32, no. 185, p. E21-E30., Registrované v: WOS

ADDA11 KARELOVÁ, Edita - HARICHOVÁ, Janka - STOJNEV, T. - PANGALLO, Domenico - FERIANC, Peter. The isolation of heavy-metal resistant culturable bacteria and resistance determinants from a heavy-metal-contaminated site. In Biologia : journal of the Slovak Academy of Science, 2011, vol. 66, p. 18-26. (2010: 0.609 - IF, Q4 - JCR, 0.290 - SJR, Q3 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-010-0145-0

Citácie:

1. [1.1] ABD ELHADY, M.A.E. - ELSAYED, A.I. - MOHAMED, S.H. - ABOELLIL, A.H. - AUMAD, M.S. ISOLATION AND IDENTIFICATION OF HEAVY METAL TOLERANT BACTERIA FROM SUGARCANE INDUSTRIAL WASTEWATER. In APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH. ISSN 1589-1623, 2020, vol. 18, no. 1, p. 1387-1406., Registrované v: WOS

2. [1.1] NARENDRULA-KOTHA, R. - THERIAULT, G. - MEHES-SMITH, M. - KALUBI, K. - NKONGOLO, K. Metal Toxicity and Resistance in Plants and Microorganisms in Terrestrial

Ecosystems. In REVIEWS OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, VOL 249. ISSN 0179-5953, 2020, vol. 249, p. 1-27., Registrované v: WOS
3. [1.1] SHER, S. - HUSSAIN, S.Z. - REHMAN, A. Phenotypic and genomic analysis of multiple heavy metal-resistant Micrococcus luteus strain AS2 isolated from industrial waste water and its potential use in arsenic bioremediation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, MAR 2020, vol. 104, no. 5, p. 2243-2254., Registrované v: WOS
4. [1.1] YADAV, N. - SHARMA, S. Pollution shapes the bacterial community of a river: a case study. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, APR 2020, vol. 17, no. 4, p. 2003-2016., Registrované v: WOS
5. [1.1] YU, F.M. - LIN, J.M. - XIE, D.Y. - YAO, Y.W. - WANG, X.R. - HUANG, Y.Y. - XIN, M.F. - YANG, F.F. - LIU, K.H. - LI, Y. Soil properties and heavy metal concentrations affect the composition and diversity of the diazotrophs communities associated with different land use types in a mining area. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, NOV 2020, vol. 155, 103669, Registrované v: WOS
6. [1.2] NAI, Chang Xin - TANG, Mei Qin - XU, Ya - DONG, Lu - LIU, Yu Qiang - LIU, Jing Cai - YANG, Jian - LIU, Fan - HE, Ya Nan. Life cycle environmental risk characteristics of reuse of decommissioned industrial solid waste landfill sites. In Zhongguo Huanjing Kexue/China Environmental Science. ISSN 10006923, 2020-12-20, 40, 12, pp. 5511-5519., Registrované v: SCOPUS

ADDA12 KOPČÁKOVÁ, Anna - STRAMOVÁ, Zuzana - KVASNOVÁ, S. - GODÁNY, Andrej - PERHÁČOVÁ, Zuzana - PRISTAŠ, Peter. Need for database extension for reliable identification of bacteria from extreme environments using MALDI TOF mass spectrometry. In Chemical Papers, 2014, vol. 68, p. 1435–1442. (2013: 1.193 - IF, Q3 - JCR, 0.308 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0366-6352. Dostupné na: https://doi.org/10.2478/s11696-014-0612-0

Citácie:
1. [1.1] BROCKMANN, M. - AUPPERLE-LELLBACH, H. - GENTIL, M. - HEUSINGER, A. - MULLER, E. - MARSCHANG, R.E. - PEES, M. Challenges in microbiological identification of aerobic bacteria isolated from the skin of reptiles. In PLOS ONE. ISSN 1932-6203, OCT 19 2020, vol. 15, no. 10., Registrované v: WOS

ADDA13 KUKUROVÁ, K. - KAROVICOVA, J. - KOHAJDOVA, Z. - BÍLIKOVÁ, Katarína. Authentication of honey by multivariate analysis of its physico-chemical parameters. In Journal of Food and Nutrition Research, 2008, vol. 47, p. 170-180. (2007: 0.169 - SJR, Q3 - SJR). ISSN 1336-8672.

Citácie:
1. [1.1] CRACIUN, M.E. - PARVULESCU, O.C. - DONISE, A.C. - DOBRE, T. - STANCIU, D.R. Characterization and classification of Romanian acacia honey based on its physicochemical parameters and chemometrics. In SCIENTIFIC REPORTS. ISSN 2045-2322, DEC 26 2020, vol. 10, no. 1., Registrované v: WOS
2. [1.1] GEANA, E.I. - CIUCURE, C.T. - COSTINEL, D. - IONETE, R.E. Evaluation of honey in terms of quality and authenticity based on the general physicochemical pattern, major sugar composition and delta C-13 signature. In FOOD CONTROL. ISSN 0956-7135, MAR 2020, vol. 109., Registrované v: WOS
3. [1.1] GHRAMH, H.A. - KHAN, K.A. - AHMED, Z. - ANSARI, M.J. Quality evaluation of Saudi honey harvested from the Asir province by using high-performance liquid chromatography (HPLC). In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, AUG 2020, vol. 27, no. 8, p. 2097-2105., Registrované v: WOS
4. [1.1] SEDIK, P. - HORSKA, E. - ADAM, S. - MISKEJE, M. Mineral content as an aspect of nutrition marketing: case study of honey market in Slovakia. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2020, vol. 59, no. 3, p. 185-192., Registrované v: WOS

ADDA14 MACHOVIC, M. - JANEČEK, Štefan. The invariant residues in the alpha-amylase family: just the catalytic triad. In Biologia : journal of the Slovak Academy of Sciences, 2003, vol. 58, p. 1127-1132. (2002: 0.169 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0006-3088.

Citácie:
1. [1.1] JEONG, D.W. - JEONG, H.M. - SHIN, Y.J. - WOO, S.H. - SHIM, J.H. Properties of recombinant 4-alpha-glucanotransferase from Bifidobacterium longum subsp. longum JCM 1217 and its application. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAY 2020, vol. 29, no. 5, p. 667-674., Registrované v: WOS

ADDA15 MACHOVIČ, Martin - JANEČEK, Štefan. Domain evolution in the GH13 pullulanase subfamily with focus on the carbohydrate-binding module family. In Biologia : journal of the Slovak Academy of Science, 2008, vol. 63, p. 1057-1068. (2007: 0.207 - IF, Q4 - JCR, 0.153 - SJR, Q3 - SJR, karentované - CCC). (2008 - Current Contents, SCOPUS). ISSN 0006-3088.

Citácie:

1. [1.1] ANDERSEN, S. - SVENSSON, B. - MOLLER, M.S. Roles of the N-terminal domain and remote substrate binding subsites in activity of the debranching barley limit dextrinase. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, JAN 2020, vol. 1868, no. 1., Registrované v: WOS
2. [1.1] SHEN, J. - ZHENG, L.X. - CHEN, X.D. - HAN, X.Y. - CAO, Y.C. - YAO, J.H. Metagenomic Analyses of Microbial and Carbohydrate-Active Enzymes in the Rumen of Dairy Goats Fed Different Rumen Degradable Starch. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, MAY 20 2020, vol. 11., Registrované v: WOS
3. [1.1] TOMAZETTO, G. - PIMENTEL, A.C. - WIBBERG, D. - DIXON, N. - SQUINA, F.M. Multi-omic Directed Discovery of Cellulosomes, Polysaccharide Utilization Loci, and Lignocellulases from an Enriched Rumen Anaerobic Consortium. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, SEP 2020, vol. 86, no. 18., Registrované v: WOS

ADDA16 MAJZLOVÁ, Katarína - JANEČEK, Štefan. Two structurally related starch-binding domain families CBM25 and CBM 26. In Biologia, 2014, vol. 69, p. 1087-1096. (2013: 0.696 - IF, Q4 - JCR, 0.302 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-014-0415-3

Citácie:
1. [1.1] ZENG, J. - GUO, J.J. - TU, Y.K. - YUAN, L. Functional study of C-terminal domain of the thermoacidophilic raw starch-hydrolyzing alpha-amylase Gt-amy. In FOOD SCIENCE AND BIOTECHNOLOGY. ISSN 1226-7708, MAR 2020, vol. 29, no. 3, p. 409-418., Registrované v: WOS

ADDA17 NAGYOVÁ, V. - NAGY, Alexander - JANEČEK, Štefan - TIMKO, Jozef. Morphological, physiological, molecular and phylogenetic characterization of new environmental isolates of Acanthamoeba spp. In Biologia : journal of the Slovak Academy of Science, 2010, vol. 65, p. 81-91. (2009: 0.617 - IF, Q4 - JCR, 0.289 - SJR, Q3 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-014-0415-3

Citácie:
1. [1.1] KOYUN, I. - KOLOREN, Z. - KARAMAN, U. - TSIAMI, A. - KARANIS, P. Acanthamoeba spp. in river water samples from the Black Sea region, Turkey. In JOURNAL OF WATER AND HEALTH. ISSN 1477-8920, APR 2020, vol. 18, no. 2, p. 186-199., Registrované v: WOS

ADDA18 NOVÁKOVÁ, Jana - FARKAŠOVSKÝ, Marian. Bioprospecting microbial metagenome for natural products. In Biologia : journal of the Slovak Academy of Sciences, 2013, vol. 68, p. 1079-1086. (2012: 0.506 - IF, Q4 - JCR, 0.256 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-013-0246-7

Citácie:
1. [1.1] LI, X.F. - ISLAM, M.M. - CHEN, L. - WANG, L.K. - ZHENG, X. Metagenomics-Guided Discovery of Potential Bacterial Metallothionein Genes from the Soil Microbiome That Confer Cu and/or Cd Resistance. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, MAY 2020, vol. 86, no. 9., Registrované v: WOS

ADDA19 PANGALLO, Domenico - HARICHOVÁ, Janka - KARELOVÁ, Edita - DRAHOVSKÁ, H. - CHOVANOVÁ, Katarína - FERIANC, Peter - TURŇA, Ján - TIMKO, Jozef. Molecular investigation of enterococci isolated from different environmental sources. In Biologia : journal of the Slovak Academy of Science, 2004, vol. 59, p. 829-837. (2003: 0.183 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0006-3088.

Citácie:
1. [1.1] VANDERA, E. - PARAPOULI, M. - KAKOURI, A. - KOUKKOU, A.I. - HATZILOUKAS, E. - SAMELIS, J. Structural enterocin gene profiles and mode of antilisterial activity in synthetic liquid media and skim milk of autochthonous Enterococcus spp. isolates from artisan Greek Graviera and Galotyri cheeses. In FOOD MICROBIOLOGY. ISSN 0740-0020, APR 2020, vol. 86., Registrované v: WOS

ADDA20 PETROVČÍKOVÁ, Eva** - VIČÍKOVÁ, Kristína - LEKSA, Vladimír. Extracellular vesicles – biogenesis, composition, function, uptake and therapeutic applications. In Biologia, 2018, vol. 73, p. 437-448. (2017: 0.696 - IF, Q4 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-018-0047-0

Citácie:
1. [1.1] KUMAR, A. - KODIDELA, S. - TADROUS, E. - CORY, T.J. - WALKER, C.M. - SMITH, A.M. - MUKHERJEE, A. - KUMAR, S. Extracellular Vesicles in Viral Replication and Pathogenesis and Their Potential Role in Therapeutic Intervention. In VIRUSES-BASEL. AUG 2020, vol. 12, no. 8., Registrované v: WOS

ADDA21 ŘEHÁČEK, Jozef - KOCIANOVÁ, Elena - LUKÁČOVÁ, Magdaléna - VÝROSTEKOVÁ, V. - STANEK, G. - KHANAKAH, G. - VALKOVÁ, Dana. Detection of Spotted Fever Group (SFG) Rickettsia in Ixodes Ricinus Ticks in Austria. In Acta Virologica, 1997, vol. 41, no. 6, s. 355-356.

(1996: 0.481 - IF, karentované - CCC). (1997 - Current Contents). ISSN 0001-723X.
Citácie:
1. [1.1] VOGELGESANG, J.R. - WALTER, M. - KAHL, O. - RUBEL, F. - BRUGGER, K. Long-term monitoring of the seasonal density of questing ixodid ticks in Vienna (Austria): setup and first results. In EXPERIMENTAL AND APPLIED ACAROLOGY. ISSN 0168-8162, JUL 2020, vol. 81, no. 3, p. 409-420., Registrované v: WOS

ADDA22 ŠAKOVÁ, Nikoleta - SÁDECKÁ, Jana - LEJKOVÁ, J. - PUŠKÁROVÁ, Andrea - KOREŇOVÁ, J. - KOLEK, Emil - VALIK, L. - KUCHTA, T. - PANGALLO, Domenico. Characterization of May bryndza cheese from various regions in Slovakia based on microbiological, molecular and principal volatile odorants examination. In Journal of Food and Nutrition Research, 2015, vol. 54, p. 239-251. (2014: 0.804 - IF, Q3 - JCR, 0.342 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1336-8672.
Citácie:
1. [1.1] STEFANIKOVA, J. - DUCKOVA, V. - MISKEJE, M. - KACANIOVA, M. - CANIGOVA, M. The Impact of Different Factors on the Quality and Volatile Organic Compounds Profile in "Bryndza" Cheese. In FOODS. SEP 2020, vol. 9, no. 9, 1195, Registrované v: WOS
2. [2.2] KAČÁNIOVÁ, Miroslava - BOROTOVÁ, Petra - TERENTJEVA, Margarita - KUNOVÁ, Simona - FELŠÖCIOVÁ, Soňa - HAŠČÍK, Peter - LOPAŠOVSKÝ, Ľubomír - ŠTEFÁNIKOVÁ, Jana. Bryndza cheese of Slovak origin as potential resources of probiotic bacteria. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2020-01-01, 14, pp. 641-646., Registrované v: SCOPUS
3. [2.2] STEFANIKOVA, Jana - ARVAY, Julius - MIŠKEJE, Michal - KAČÁNIOVÁ, Miroslava. DETERMINATION OF VOLATILE ORGANIC COMPOUNDS IN SLOVAK BRYNDZA CHEESE BY THE ELECTRONIC NOSE AND THE HEADSPACE SOLID-PHASE MICROEXTRACTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY. In Potravinarstvo Slovak Journal of Food Sciences. ISSN 13380230, 2020-01-01, 14, pp. 767-773., Registrované v: SCOPUS

ADDA23 ŠMIDÁK, Roman - KRÁLOVIČOVÁ, Martina - ŠEVČÍKOVÁ, Beatrica - JAKUBCOVÁ, M. - KORMANEC, Ján - TIMKO, Jozef - TURŇA, Ján. Sequence analysis and gene amplification study of the penicillin biosynthesis gene cluster from different strains of Penicillium chrysogenum. In Biologia : journal of the Slovak Academy of Science, 2010, vol. 65, p. 1-6. (2009: 0.617 - IF, Q4 - JCR, 0.289 - SJR, Q3 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-009-0216-2
Citácie:
1. [1.1] MARTIN, J.F. Insight into the Genome of Diverse Penicillium chrysogenum Strains: Specific Genes, Cluster Duplications and DNA Fragment Translocations. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUN 2020, vol. 21, no. 11, 3936, Registrované v: WOS

ADDA24 VIČÍKOVÁ, Kristína - PETROVČÍKOVÁ, Eva - MANKA, P. - DRACH, J. - STOCKINGER, H. - LEKSA, Vladimír**. Serum and urinary levels of CD222 in cancer: origin and diagnostic value. In Neoplasma, 2018, vol. 65, p. 762-768. (2017: 1.696 - IF, Q4 - JCR, 0.639 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0028-2685. Dostupné na: https://doi.org/10.4149/neo_2018_171203N792
Citácie:
1. [1.1] LIU, S.B. - ZHOU, L.B. - WANG, H.F. - LI, G. - XIE, Q.P. - HU, B. Loss of IGF2R indicates a poor prognosis and promotes cell proliferation and tumorigenesis in bladder cancer via AKT signaling pathway. In NEOPLASMA. ISSN 0028-2685, 2020, vol. 67, no. 1, p. 129-136., Registrované v: WOS

ADDA25 VIDOVÁ, Barbora - ŠRAMKOVÁ, Zuzana - TIŠÁKOVÁ, Lenka - ORAVKINOVÁ, M. - GODÁNY, Andrej. Bioinformatics analysis of bacteriophage and prophage endolysin domains. In Biologia : journal of the Slovak Academy of Sciences, 2014, vol. 69, no. 5, p. 541-556. (2013: 0.696 - IF, Q4 - JCR, 0.302 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-014-0358-8
Citácie:
1. [1.1] MUHARRAM, M.M. - ABULHAMD, A.T. - ALDAWSARI, M.F. - ALQARNI, M.H. - LABROU, N.E. Development of Staphylococcus Enzybiotics: The Ph28 Gene of Staphylococcus epidermidis Phage PH15 Is a Two-Domain Endolysin. In ANTIBIOTICS-BASEL. ISSN 2079-6382, APR 2020, vol. 9, no. 4., Registrované v: WOS
2. [1.1] ORLANDO, M. - PUCCIARELLI, S. - LOTTI, M. Endolysins from Antarctic Pseudomonas Display Lysozyme Activity at Low Temperature. In MARINE DRUGS. NOV 2020, vol. 18, no. 11., Registrované v: WOS

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

ADEA01 CIPAKOVA, I. - HOSTINOVÁ, Eva. Production of the human-beta-defensin using Saccharomyces cerevisiae as a host. In Protein and Peptide Letters, 2005, vol. 12, p. 551-554.

Citácie:

1. [1.1] DE OLIVEIRA, K.B.S. - LEITE, M.L. - RODRIGUES, G.R. - DUQUE, H.M. - DA COSTA, R.A. - CUNHA, V.A. - COSTA, L.S.D. - DA CUNHA, N.B. - FRANCO, O.L. - DIAS, S.C. Strategies for recombinant production of antimicrobial peptides with pharmacological potential. In EXPERT REVIEW OF CLINICAL PHARMACOLOGY. ISSN 1751-2433, APR 2 2020, vol. 13, no. 4, p. 367-390., Registrované v: WOS

ADEA02 FACEY, P.D. - ŠEVČÍKOVÁ, Beatrica - NOVÁKOVÁ, Renáta - HITCHINGS, M.D. - CRACK, J.C. - KORMANEC, Ján - DYSON, P. - DEL SOL, R. The dpsA gene of Streptomyces coelicolor: induction of expression from a single promoter in response to environmental stress or during development. In PLoS ONE, 2011, vol. 6., p. e25593. (2010: 4.411 - IF, Q1 - JCR, 2.705 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, MEDLINE). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0025593

Citácie:

1. [1.1] KAMYSHINSKY, R. - CHESNOKOV, Y. - DADINOVA, L. - MOZHAEV, A. - ORLOV, I. - PETOUKHOV, M. - OREKHOV, A. - SHTYKOVA, E. - VASILIEV, A. Polymorphic Protective Dps-DNA Co-Crystals by Cryo Electron Tomography and Small Angle X-Ray Scattering. In BIOMOLECULES. JAN 2020, vol. 10, no. 1., Registrované v: WOS

2. [1.1] MILLAN-OROPEZA, A. - HENRY, C. - LEJEUNE, C. - DAVID, M. - VIROLLE, M.J. Expression of genes of the Pho regulon is altered in Streptomyces coelicolor. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 22 2020, vol. 10, no. 1., Registrované v: WOS

3. [1.1] PROTASOV, E.S. - AXENOV-GRIBANOV, D.V. - SHATILINA, Z.M. - TIMOFEYEV, M.A. - LANE, A.L. Freshwater Actinobacteria from sediments of the deep and ancient Lake Baikal (Russia) and their genetic potential as producers of secondary metabolites. In AQUATIC MICROBIAL ECOLOGY. ISSN 0948-3055, 2020, vol. 84, p. 1-14., Registrované v: WOS

ADEA03 HARTLEY, R.W. - BOTH, V. - HEBERT, E.J. - HOMEROVÁ, Dagmar - JUCOVIC, M. - NAZAROV, V. - RYBAJLAK, I. - ŠEVČÍK, Jozef. Barstar inhibits extracellular ribonucleases of Streptomyces and allows their Barstar inhibits extracellular ribonucleases of Streptomyces and allows their Barstar inhibits extracellular ribonucleases of Streptomyces and allows their production from recombinant genes. In Protein and Peptide Letters, 1996, vol. 3, p. 225-231. ISSN 0929-8665.

Citácie:

1. [1.1] BENNINGHAUS, V.A. - VAN DEENEN, N. - MULLER, B. - ROELFS, K.U. - LASSOWSKAT, I. - FINKEMEIER, I. - PRUFER, D. - GRONOVER, C.S. Comparative proteome and metabolome analyses of latex-exuding and non-exuding Taraxacum koksaghyz roots provide insights into laticifer biology. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, FEB 7 2020, vol. 71, no. 4, p. 1278-1293., Registrované v: WOS

ADEA04 MAJTAN, V. - MAJTÁN, Tomáš - MAJTÁN, Juraj - SZABOOVA, M. - MAJTÁNOVÁ, Ľ. Salmonella enterica Serovar Kentucky: Antimicrobial resistance and molecular analysis of clinical isolates from Slovak Republic. In Japanese Journal of Infectious Diseases, 2006, vol. 59, p. 358-362. (2005: 0.776 - IF, Q4 - JCR, 0.369 - SJR, Q2 - SJR). ISSN 1344-6304.

Citácie:

1. [1.1] MAHAGAMAGE, M.G.Y.L. - PATHIRAGE, M.V.S.C. - MANAGE, P.M. Contamination Status ofSalmonellaspp.,Shigellaspp. andCampylobacterspp. in Surface and Groundwater of the Kelani River Basin, Sri Lanka. In WATER. AUG 2020, vol. 12, no. 8, 2187., Registrované v: WOS

ADEA05 MAJTÁNOVÁ, Ľ. - MAJTÁN, Tomáš - MAJTAN, V. Detection of the class 1 integrons and SGI1 among salmonella enterica serovar typhimurium DT104, U302, DT120, DT193, and nontypable human isolates. In Japanese Journal of Infectious Diseases, 2010, vol. 63, p. 292-295. (2009: 1.222 - IF, Q4 - JCR, 0.584 - SJR, Q2 - SJR). ISSN 1344-6304.

Citácie:

1. [1.1] MUSTAK, I.B. - MUSTAK, H.K. - SARICAM, S. Molecular characterisation of hydrogen sulfide negativeSalmonella entericaserovar Havana. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, SEP 2020, vol. 113, no. 9, p. 1241-1246., Registrované v: WOS

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 MICHALKOVÁ, D. - MINÁRIK, P. - HLAVA, P. - ČAMAJOVÁ, J. - NAZAROV, V.. Trends in the incidence of childhood-onset type 1 diabetes in Slovakia 1985 - 2000. In Central European journal of public health, 2004, vol. 12, p. 75-77. ISSN 1210-7778.

Citácie:

1. [1.1] MOBASSERI, M. - SHIRMOHAMMADI, M. - AMIRI, T. - VAHED, N. - FARD, H.H. -

GHOJAZADEH, M. Prevalence and incidence of type 1 diabetes in the world: a systematic review and meta-analysis. In HEALTH PROMOTION PERSPECTIVES. ISSN 2228-6497, 2020, vol. 10, no. 2, p. 98-115., Registrované v: WOS
2. [1.1] PODOLAKOVA, K. - BARAK, L. - JANCOVA, E. - STANIK, J. - PODRACKA, L. Increasing incidence of type 1 diabetes mellitus in young children in Slovakia. In BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY. ISSN 0006-9248, 2020, vol. 121, no. 2, p. 129-132., Registrované v: WOS

ADFA Vedecké práce v ostatných domácich časopisoch – impaktovaných

ADFA01 BERTA, G. - CHEBENOVA, V. - BREZNA, B. - PANGALLO, Domenico - VALIK, L. - KUCHTA, T. Identification of lactic acid bacteria in Slovakian bryndza cheese. In Journal of Food and Nutrition Research, 2009, vol. 48, p. 65-71. (2008: 0.714 - IF, Q3 - JCR, 0.322 - SJR, Q2 - SJR). ISSN 1336-8672.

Citácie:
1. [1.1] QIAN, Z.X. - ZHAO, D. - YIN, Y. - ZHU, H. - CHEN, D.J. Antibacterial Activity of Lactobacillus Strains Isolated from Mongolian Yogurt against Gardnerella vaginalis. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, APR 23 2020, vol. 2020, 3548618, Registrované v: WOS
2. [1.1] REFAY, R.M. - ABUSHADY, H.M. - AMER, S.A. - MAILAM, M.A. Determination of bacteriocin-encoding genes of lactic acid bacteria isolated from traditional dairy products of Luxor province, Egypt. In FUTURE JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 2314-7245, JUN 19 2020, vol. 6, no. 1, 22, Registrované v: WOS
3. [1.1] VATASCINOVA, T. - PIPOVA, M. - FRAQUEZA, M.J.R. - MAL';A, P. - DUDRIKOVA, E. - DRAZOVSKA, M. - LAUKOVA, A. Short communication: Antimicrobial potential of Lactobacillus plantarum strains isolated from Slovak raw sheep milk cheeses. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, AUG 2020, vol. 103, no. 8, p. 6900-6903., Registrované v: WOS

ADFA02 BIELIKOVÁ, M. - PANGALLO, Domenico - TURŇA, Ján. Polymerase chain reaction – restriction fragment length polymorphism (PCR-RFLP) as a molecular discrimination tool for raw and heat-treated game and domestic animal meats. In Journal of Food and Nutrition Research, 2010, vol. 49, p. 134–139. (2009: 0.655 - IF, Q3 - JCR, 0.311 - SJR, Q2 - SJR). ISSN 1336-8672.

Citácie:
1. [1.1] WANG, Y.Z. - ZHU, K. - WANG, D.G. Visual detection of donkey-derived ingredients by loop-mediated isothermal amplification with 4-(2-pyridylazo)-resorcinol sodium salt. In CYTA-JOURNAL OF FOOD. ISSN 1947-6337, JAN 1 2020, vol. 18, no. 1, p. 240-244., Registrované v: WOS
2. [1.2] LI, Ming - JIANG, Chao - PUI-HAY, Paul - SHAW, Pang Chui - YUAN, Yuan. Molecular identification of traditional medicinal materials. In Molecular Pharmacognosy, 2020-01-01, pp. 13-39., Registrované v: SCOPUS

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

ADFB01 BRINDZA, Ján - GRÓF, Ján - BACIGÁLOVÁ, Kamila - FERIANC, Peter - TÓTH, Dezider. Pollen microbial colonization and food safety. In Acta Chimica Slovaca, 2010, vol. 3, no. 1, p. 95-102.

Citácie:
1. [1.1] ABDELNOUR, S.A. - ABD EL-HACK, M.E. - ALAGAWANY, M. - TAHA, A.E. - ELNESR, S.S. - ABD ELMONEM, O.M. - SWELUM, A.A. Useful impacts of royal jelly on reproductive sides, fertility rate and sperm traits of animals. In JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION. ISSN 0931-2439, NOV 2020, vol. 104, no. 6, p. 1798-1808., Registrované v: WOS
2. [1.1] FLORES, J.L.H. - LANDAVERDE, D.S. - HUERTA, Y.P. - CASTILLO, V.L.G. - SANCHEZ, M.D.B. - HERNANDEZ, I.A. - LOPEZ, M.A.R. - HIDALGO, E.A. - JONES, G.H. - GUILLEN, J.C. Phylogenetic Analysis of Bacillus cereus sensu lato Isolates from Commercial Bee Pollen Using tRNA(Cys)-PCR. In MICROORGANISMS. APR 2020, vol. 8, no. 4, 524., Registrované v: WOS
3. [1.1] HIDALGO, E.A. - HERNANDEZ-FLORESB, J.L. - MORENO, V.D.A. - LOPEZ, M.R. - GOMEZ, S.R. - CRUZ, M.A.V. - RUIZ, A.T. - OSUNAD, C.A. - JONES, G.H. - HERNANDEZ, I.A. - MARTINEZ, A.E. - CAMPOS-GUILLEN, J. Gamma irradiation effects on the microbial content in commercial bee pollen used for bumblebee mass rearing. In RADIATION PHYSICS AND CHEMISTRY. ISSN 0969-806X, MAR 2020, vol. 168, 108511., Registrované v: WOS
4. [1.1] MARUSCAKOVA, I.C. - SCHUSTEROVA, P. - BIELIK, B. - TOPORCAK, J. - BILIKOVA,

K. - MUDRONOVA, D. Effect of Application of Probiotic Pollen Suspension on Immune Response and Gut Microbiota of Honey Bees (Apis mellifera). In PROBIOTICS AND ANTIMICROBIAL PROTEINS. ISSN 1867-1306, SEP 2020, vol. 12, no. 3, p. 929-936., Registrované v: WOS

ADFB02 ŠKRABANA, Rostislav - ŠKRABANOVÁ, Michaela - CSÓKOVÁ, Natália - ŠEVČÍK, Jozef - NOVÁK, Michal. Intrinsically disordered tau protein in Alzheimers tangles: a coincidence or a rule? In Bratislavské lekárske listy. - Bratislava : Slovak Academic Press, 2006, roč. 107, č. 9-10, s. 354-358. (2005: 0.119 - SJR, Q3 - SJR). ISSN 0006-9248.

Citácie:

1. [1.1] GADHAVE, K. - GEHI, B.R. - KUMAR, P. - XUE, B. - UVERSKY, V.N. - GIRI, R. The dark side of Alzheimer';s disease: unstructured biology of proteins from the amyloid cascade signaling pathway. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, OCT 2020, vol. 77, no. 20, p. 4163-4208., Registrované v: WOS

2. [1.1] SINSKY, J. - MAJEROVA, P. - KOVAC, A. - KOTLYAR, M. - JURISICA, I. - HANES, J. Physiological Tau Interactome in Brain and Its Link to Tauopathies. In JOURNAL OF PROTEOME RESEARCH. ISSN 1535-3893, JUN 5 2020, vol. 19, no. 6, p. 2429-2442., Registrované v: WOS

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

ADMA01 BARÁK, Imrich. Editorial: Spores and Spore Formers. In Frontiers in Microbiology, 2017, vol. 8, art. no. 1046. (2016: 4.076 - IF, Q1 - JCR, 1.759 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2017.01046

Citácie:

1. [1.1] SONG, X.G. - HAN, M.H. - HE, F. - WANG, S.Y. - LI, C.H. - WU, G.C. - HUANG, Z.G. - LIU, D. - LIU, F.Q. - LABORDA, P. - SHI, X.C. Antifungal Mechanism of Dipicolinic Acid and Its Efficacy for the Biocontrol of Pear Valsa Canker. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, MAY 20 2020, vol. 11, p. 958, Registrované v: WOS

ADMA02 BARÁK, Imrich** - MUCHOVÁ, Katarína. The positioning of the asymmetric septum during sporulation in Bacillus subtilis. In PLoS ONE, 2018, vol. 13, no. e0201979. (2017: 2.766 - IF, Q1 - JCR, 1.164 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0201979

Citácie:

1. [1.1] DIALLO, M. - KINT, N. - MONOT, M. - COLLAS, F. - MARTIN-VERSTRAETE, I. - VAN DER OOST, J. - KENGEN, S.W.M. - LOPEZ-CONTRERAS, A.M. Transcriptomic and Phenotypic Analysis of aspoIIEMutant inClostridium beijerinckii. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 15 2020, vol. 11., Registrované v: WOS

2. [1.1] KHANNA, K. - LOPEZ-GARRIDO, J. - POGLIANO, K. Shaping an Endospore: Architectural Transformations During Bacillus subtilis Sporulation. In ANNUAL REVIEW OF MICROBIOLOGY, VOL 74, 2020. ISSN 0066-4227, 2020, vol. 74, p. 361-386., Registrované v: WOS

ADMA03 BARÁK, Imrich** - MUCHOVÁ, Katarína - LABAJOVÁ, Naďa. Asymmetric cell division during Bacillus subtilis sporulation. In Future Microbiology, 2019, vol. 14, p. 353-363. (2018: 2.746 - IF, Q3 - JCR, 1.065 - SJR, Q2 - SJR). (2019 - SCOPUS). ISSN 1746-0913. Dostupné na: https://doi.org/10.2217/fmb-2018-0338

Citácie:

1. [1.1] CHEN, M. - LYU, Y.F. - FENG, E.L. - ZHU, L. - PAN, C. - WANG, D.S. - LIU, X.K. - WANG, H.L. SpoVG Is Necessary for Sporulation in Bacillus anthracis. In MICROORGANISMS. APR 2020, vol. 8, no. 4., Registrované v: WOS

2. [1.1] DIALLO, M. - KINT, N. - MONOT, M. - COLLAS, F. - MARTIN-VERSTRAETE, I. - VAN DER OOST, J. - KENGEN, S.W.M. - LOPEZ-CONTRERAS, A.M. Transcriptomic and Phenotypic Analysis of aspoIIEMutant inClostridium beijerinckii. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 15 2020, vol. 11., Registrované v: WOS

3. [1.1] KHANNA, K. - LOPEZ-GARRIDO, J. - POGLIANO, K. Shaping an Endospore: Architectural Transformations During Bacillus subtilis Sporulation. In ANNUAL REVIEW OF MICROBIOLOGY, VOL 74, 2020. ISSN 0066-4227, 2020, vol. 74, p. 361-386., Registrované v: WOS

ADMA04 FLEMMING, J. - ZÁMOCKÝ, Marcel - ALIA, A. Amyloid β and free heme: bloody new insights into the pathogenesis of Alzheimer's disease. In Neural Regeneration Research, 2018, vol. 13, p. 1170-1174. (2017: 2.234 - IF, Q3 - JCR, 0.648 - SJR, Q3 - SJR). ISSN 1673-5374. Dostupné na: https://doi.org/10.4103/1673-5374.235021

Citácie:

1. [1.1] ASHRAF, A. - ASHTON, N.J. - CHATTERJEE, P. - GOOZEE, K. - SHEN, K.K. - FRIPP, J. - AMES, D. - ROWE, C. - MASTERS, C.L. - VILLEMAGNE, V. - HYE, A. - MARTINS, R.N. - SO, P.W. Plasma transferrin and hemopexin are associated with altered A beta uptake and cognitive decline in Alzheimer';s disease pathology. In ALZHEIMERS RESEARCH & THERAPY. JUN 9 2020, vol. 12, no. 1., Registrované v: WOS

2. [1.1] ASHRAF, A.A. - DANI, M. - SO, P.W. Low Cerebrospinal Fluid Levels of Hemopexin Are Associated With Increased Alzheimer';s Pathology, Hippocampal Hypometabolism, and Cognitive Decline. In FRONTIERS IN MOLECULAR BIOSCIENCES. DEC 18 2020, vol. 7., Registrované v: WOS

3. [1.1] ASHRAFIZADEH, M. - ZARRABI, A. - NAJAFI, M. - SAMARGHANDIAN, S. - MOHAMMADINEJAD, R. - AHN, K.S. Resveratrol targeting tau proteins, amyloid-beta aggregations, and their adverse effects: An updated review. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, NOV 2020, vol. 34, no. 11, p. 2867-2888., Registrované v: WOS

4. [1.1] KOHLER, T. - PATSIS, P.A. - HAHN, D. - RULAND, A. - NAAS, C. - MULLER, M. - THIELE, J. DNAzymes as Catalysts for L-Tyrosine and Amyloid beta Oxidation. In ACS OMEGA. ISSN 2470-1343, APR 7 2020, vol. 5, no. 13, p. 7059-7064., Registrované v: WOS

5. [1.1] PHILLIPS, M. - KANNAIAN, B. - YANG, J.N.T. - KATHER, R. - MU, Y.G. - HARMER, J.R. - PERVUSHIN, K. Amyloid beta chaperone - lipocalin-type prostaglandin D synthase acts as a peroxidase in the presence of heme. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, APR 2020, vol. 477, no. 7, p. 1227-1240., Registrované v: WOS

6. [1.1] SYLLWASSCHY, B.F. - BECK, M.S. - DRUZETA, I. - HOPP, M.T. - RAMOJI, A. - NEUGEBAUER, U. - NOZINOVIC, S. - MENCHE, D. - WILLBOLD, D. - OHLENSCHLAGER, O. - KUHL, T. - IMHOF, D. High-affinity binding and catalytic activity of His/Tyr-based sequences: Extending heme-regulatory motifs beyond CP. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, JUL 2020, vol. 1864, no. 7., Registrované v: WOS

ADMA05 FLORES - RAMÍREZ, Gabriela - JANEČEK, Štefan - MIERNYK, J.A. - ŠKULTÉTY, Ľudovít. In silico biosynthesis of virenose a methylated deoxy-sugar unique to Coxiella burnetii lipopolysaccharide. In Proteome Science, 2012, vol. 10, no. 1, p. 67-73. (2011: 2.328 - IF). ISSN 1477 - 5956. Dostupné na: https://doi.org/10.1186/1477-5956-10-67

Citácie:

1. [1.1] KOVACS-SIMON, A. - METTERS, G. - NORVILLE, I. - HEMSLEY, C. - TITBALL, R.W. Coxiella burnetiireplicates inGalleria mellonellahemocytes and transcriptome mapping revealsin vivoregulated genes. In VIRULENCE. ISSN 2150-5594, JAN 1 2020, vol. 11, no. 1, p. 1268-1278., Registrované v: WOS

ADMA06 GABRIŠKO, Marek - BARÁK, Imrich. Evolution of the SpoIISABC toxin-antitoxin-antitoxin system in bacilli. In Toxins, 2016, vol. 8, p. 1-16. (2015: 3.571 - IF, Q1 - JCR, 0.971 - SJR, Q2 - SJR). ISSN 2072-6651. Dostupné na: https://doi.org/10.3390/toxins8060180

Citácie:

1. [1.1] TU, C.H. - HOLT, M. - RUAN, S.F. - BOURNE, C. Evaluating the Potential for Cross-Interactions of Antitoxins in Type II TA Systems. In TOXINS. JUN 2020, vol. 12, no. 6, 422., Registrované v: WOS

ADMA07 HOJCKOVA, K. - STANO, Matej - KĽUČÁR, Ľuboš. PhiBIOTICS: Catalogue of therapeutic enzybiotics, relevant research studies and practical applications. In BMC Microbiology, 2013, vol. 13, no. 53. (2012: 3.104 - IF, Q2 - JCR, 1.507 - SJR, Q1 - SJR). ISSN 1471-2180. Dostupné na: https://doi.org/10.1186/1471-2180-13-53

Citácie:

1. [1.1] ANTWIS, R.E. - FRY, E.L. - JAMES, C.E. - FERRY, N. Microbial biotechnology. In MICROBIOMES OF SOILS, PLANTS AND ANIMALS: AN INTEGRATED APPROACH. ISSN 1992-3295, 2020, p. 182-221., Registrované v: WOS

2. [1.1] BLASCO, L. - AMBROA, A. - TRASTOY, R. - BLERIOT, I. - MOSCOSO, M. - FERNANDEZ-GARCIA, L. - PEREZ-NADALES, E. - FERNANDEZ-CUENCA, F. - TORRE-CISNEROS, J. - OTEO-IGLESIAS, J. - OLIVER, A. - CANTON, R. - KIDD, T. - NAVARRO, F. - MIRO, E. - PASCUAL, A. - BOU, G. - MARTINEZ-MARTINEZ, L. - TOMAS, M. In vitro and in vivo efficacy of combinations of colistin and different endolysins against clinical strains of multi-drug resistant pathogens. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 28 2020, vol. 10, no. 1, 7163., Registrované v: WOS

ADMA08 JAMROŠKOVIČ, Ján - CHROMÍKOVÁ, Zuzana - LIST, C. - BÁRTOVÁ, Barbora - BARÁK, Imrich - BERNIER-LATMANI, R. Variability in DPA and Calcium Content in the Spores of Clostridium Species. In Frontiers in Microbiology, 2016, vol. 7, p. 1791. (2015: 4.165 - IF, Q1 - JCR, 1.869 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2016.01791

Citácie:

1. [1.1] DIALLO, M. - KINT, N. - MONOT, M. - COLLAS, F. - MARTIN-VERSTRAETE, I. - VAN DER OOST, J. - KENGEN, S.W.M. - LOPEZ-CONTRERAS, A.M. Transcriptomic and Phenotypic

Analysis of aspoIIEMutant inClostridium beijerinckii. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 15 2020, vol. 11., Registrované v: WOS
2. [1.1] ISTICATO, R. - LANZILLI, M. - PETRILLO, C. - DONADIO, G. - BACCIGALUPI, L. - RICCA, E. Bacillus subtilis builds structurally and functionally different spores in response to the temperature of growth. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, JAN 2020, vol. 22, no. 1, p. 170-182., Registrované v: WOS

ADMA09 KADLCIK, S. - KUCERA, T. - CHALUPSKA, D. - GAZAK, R. - KOBERSKA, M. - ULANOVA, D. - KOPECKY, J. - KUTEJOVÁ, Eva - NAJMANOVA, L. - JANATA, J. Adaptation of an L-Proline Adenylation Domain to Use 4-Propyl-L-Proline in the Evolution of Lincosamide Biosynthesis. In PLoS ONE, 2013, vol. 8., p. e84902. (2012: 3.730 - IF, Q1 - JCR, 1.982 - SJR, Q1 - SJR). (2013 - MEDLINE). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0084902

Citácie:
1. [1.1] LIN, C.Y. - PANG, A.P. - ZHANG, Y. - QIAO, J.J. - ZHAO, G.R. Comparative transcriptomic analysis reveals the significant pleiotropic regulatory effects of LmbU on lincomycin biosynthesis. In MICROBIAL CELL FACTORIES. FEB 12 2020, vol. 19, no. 1, 30, Registrované v: WOS

ADMA10 KEREICHE, S. - KOVÁČIK, L. - PEVALA, Vladimír - AMBRO, Ľuboš - GAJDOŠOVÁ, Jana - KUTEJOVÁ, Eva - RAŠKA, I. Three-dimensional reconstruction of the S885A mutant of human mitochondrial lon protease. In Folia biologica, 2014, vol. 60, suppl. 1, p. 62-65. (2013: 1.167 - IF, Q3 - JCR, 0.348 - SJR). (2014 - WOS, SCOPUS). ISSN 0015-5500.

Citácie:
1. [1.1] GIBELLINI, L. - DE GAETANO, A. - MANDRIOLI, M. - VAN TONGEREN, E. - BORTOLOTTI, C.A. - COSSARIZZA, A. - PINTI, M. The biology of Lonp1: More than a mitochondrial protease. In INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY. ISSN 1937-6448, 2020, vol. 354, p. 1-61., Registrované v: WOS

ADMA11 LÉPESOVÁ, K. - KRAKOVÁ, Lucia - PANGALLO, Domenico - MEDVEĎOVÁ, A. - OLEJNÍKOVÁ, Petra - MACKUĽAK, T. - TICHÝ, J. - GRABIC, R. - BIROŠOVÁ, Lucia. Prevalence of antibiotic-resistant coliform bacteria, Enterococcus spp. and Staphylococcus spp. in wastewater sewerage biofilm. In Journal of Global Antimicrobial Resistance, 2018, vol. 14, p. 145-151. (2017: 2.022 - IF, Q3 - JCR, 0.658 - SJR, Q2 - SJR). ISSN 2213-7165. Dostupné na: https://doi.org/10.1016/j.jgar.2018.03.008

Citácie:
1. [1.1] GNIDA, A. - FELIS, E. - ZIEMBINSKA-BUCZYNSKA, A. - LUCZKIEWICZ, A. - SURMACZ-GORSKA, J. - OLANCZUK-NEYMAN, K. Evidence of mutations conferring resistance to clarithromycin in wastewater and activated sludge. In 3 BIOTECH. ISSN 2190-572X, JAN 2020, vol. 10, no. 1, 7, Registrované v: WOS
2. [1.1] MAKOWSKA, N. - PHILIPS, A. - DABERT, M. - NOWIS, K. - TRZEBNY, A. - KOCZURA, R. - MOKRACKA, J. Metagenomic analysis of beta-lactamase and carbapenemase genes in the wastewater resistome. In WATER RESEARCH. ISSN 0043-1354, MAR 1 2020, vol. 170, 115277, Registrované v: WOS
3. [1.1] PENESYAN, A. - PAULSEN, I.T. - GILLINGS, M.R. - KJELLEBERG, S. - MANEFIELD, M.J. Secondary Effects of Antibiotics on Microbial Biofilms. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, SEP 2 2020, vol. 11, 2109, Registrované v: WOS

ADMA12 MAKROCZYOVÁ, Jana - JAMROŠKOVIČ, Ján - KRASCSENITSOVÁ, Eva - LABAJOVÁ, Naďa - BARÁK, Imrich. Oscillating behavior of Clostridium difficile Min proteins in Bacillus subtilis. In MicrobiologyOpen, 2016, vol. 5, p. 387-401. (2015: 2.148 - IF, Q3 - JCR, 1.212 - SJR, Q2 - SJR). ISSN 2045-8827. Dostupné na: https://doi.org/10.1002/mbo3.337

Citácie:
1. [1.2] PELÁEZ, Téllez - GUILLERMO, Rodríguez - YULIET, Castillo. Improved extracellular protease production by bacillus subtilis. In Acta Microscopica. ISSN 07984545, 2020-05-01, 29, 5, pp. 2795-2800., Registrované v: SCOPUS

ADMA13 MELNIČÁKOVÁ, Jana - BEČÁROVÁ, Zuzana - MAKROCZYOVÁ, Jana - BARÁK, Imrich. Analysis of the Bacillus cereus SpoIIS antitoxin-toxin system reveals its three-component nature. In Frontiers in Microbiology, 2015, vol. 6, 808. (2014: 3.989 - IF, Q1 - JCR, 1.879 - SJR, Q1 - SJR). (2015 - SCOPUS). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2015.00808

Citácie:
1. [1.1] HABIB, G. - ZHU, J.D. - SUN, B.L. A novel type I toxin-antitoxin system modulates persister cell formation in Staphylococcus aureus. In INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY. ISSN 1438-4221, FEB 2020, vol. 310, no. 2, 151400, Registrované v: WOS

ADMA14 MELNIČÁKOVÁ, Jana - DERDÁKOVÁ, Markéta - BARÁK, Imrich. A system to simultaneously detect tick-borne pathogens based on the variability of the 16S ribosomal genes. In Parasites &

vectors, 2013, vol. 6, no. 1, article no. 269, 12pp. (2012: 3.246 - IF, Q1 - JCR, 1.224 - SJR, Q1 - SJR). ISSN 1756-3305. Dostupné na: https://doi.org/10.1002/jobm.200900227

Citácie:

1. [1.1] SAHU, R. - RAWOOL, D.B. - VINOD, V.K. - MALIK, S.V.S. - BARBUDDHE, S.B. Current approaches for the detection of Coxiella burnetii infection in humans and animals. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, DEC 2020, vol. 179., Registrované v: WOS

ADMA15 MUCHOVÁ, Katarína - CHROMÍKOVÁ, Zuzana - VALENČÍKOVÁ, Romana - BARÁK, Imrich**. Interaction of the Morphogenic Protein RodZ with the Bacillus subtilis Min System. In Frontiers in Microbiology, 2018, vol. 8, p. 1-10. (2017: 4.019 - IF, Q2 - JCR, 1.699 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2017.02650

Citácie:

1. [1.1] YU, Y.C. - ZHOU, J.S. - DEMPWOLFF, F. - BAKER, J.D. - KEARNS, D.B. - JACOBSON, S.C. The Min System Disassembles FtsZ Foci and Inhibits Polar Peptidoglycan Remodeling in Bacillus subtilis. In MBIO. ISSN 2150-7511, MAR-APR 2020, vol. 11, no. 2, e03197-19, Registrované v: WOS

ADMA16 NOVOTNA, J. - OLSOVSKA, J. - NOVAK, P. - MOJZES, P. - CHALOUPKOVA, R. - KAMENIK, Z. - SPIZEK, J. - KUTEJOVÁ, Eva - MARECKOVA, M. - TICHY, P. - DAMBORSKY, J. - JANATA, J. Lincomycin biosynthesis involves a Tyrosine Hydroxylating Heme protein of an unusual enzyme family. In PLoS ONE, 2013, vol. 8., p. e79974. (2012: 3.730 - IF, Q1 - JCR, 1.982 - SJR, Q1 - SJR). (2013 - MEDLINE). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0079974

Citácie:

1. [1.1] HEDGES, J.B. - RYAN, K.S. Biosynthetic Pathways to Nonproteinogenic alpha-Amino Acids. In CHEMICAL REVIEWS. ISSN 0009-2665, MAR 25 2020, vol. 120, no. 6, p. 3161-3209., Registrované v: WOS

2. [1.1] WANG, S.A. - LIN, C.I. - ZHANG, J.W. - USHIMARU, R. - SASAKI, E. - LIU, H.W. Studies of lincosamide formation complete the biosynthetic pathway for lincomycin A. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, OCT 6 2020, vol. 117, no. 40, p. 24794-24801., Registrované v: WOS

3. [1.1] WANG, Y.F. - LIU, A.M. Carbon-fluorine bond cleavage mediated by metalloenzymes. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, JUL 21 2020, vol. 49, no. 14, p. 4906-4925., Registrované v: WOS

4. [1.1] YANG, J. - YE, R.F. - ZHANG, H.Z. - LIU, Y. Amplification of lmbB1 gene in Streptomyces lincolnensis improves quantity and quality of lincomycin A fermentation. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, JUL 2 2020, vol. 50, no. 6, p. 529-537., Registrované v: WOS

ADMA17 OHRADANOVA-REPIC, A. - MACHACEK, C. - CHARVET, C. - LAGER, F. - LE ROUX, D. - PLATZER, R. - LEKSA, Vladimír - MITULOVIC, G. - BURKARD, T.R. - ZLABINGER, G. - FISCHER, M.B. - FEUILLET, V. - RENAULT, G. - BLÜML, S. - BENKO, M. - SUCHANEK, M. - HUPPA, J.B. - MATSUYAMA, T. - CAVACO-PAULO, A. - BISMUTH, G. - STOCKINGER, H. Extracellular purine metabolism is the switchboard of immunosuppressive macrophages and a novel target to treat diseases with macrophage imbalances. In Frontiers in Immunology, 2018, vol. 9, no. 852. (2017: 5.511 - IF, Q1 - JCR, 2.803 - SJR, Q1 - SJR). ISSN 1664-3224. Dostupné na: https://doi.org/10.3389/fimmu.2018.00852

Citácie:

1. [1.1] EUDY, B.J. - MCDERMOTT, C.E. - FERNANDEZ, G. - MATHEWS, C.E. - LAI, J.P. - DA SILVA, R.P. Disruption of hepatic one-carbon metabolism impairs mitochondrial function and enhances macrophage activity in methionine-choline-deficient mice. In JOURNAL OF NUTRITIONAL BIOCHEMISTRY. ISSN 0955-2863, JUL 2020, vol. 81., Registrované v: WOS

2. [1.1] HAMIDZADEH, K. - BELEW, A.T. - EL-SAYED, N.M. - MOSSER, D.M. The transition of M-CSF-derived human macrophages to a growth-promoting phenotype. In BLOOD ADVANCES. ISSN 2473-9529, NOV 10 2020, vol. 4, no. 21, p. 5460-5472., Registrované v: WOS

3. [1.1] LUO, Q. - LUO, J. - WANG, Y.L. YAP Deficiency Attenuates Pulmonary Injury Following Mechanical Ventilation Through the Regulation of M1/M2 Macrophage Polarization. In JOURNAL OF INFLAMMATION RESEARCH. 2020, vol. 13, p. 1279-1290., Registrované v: WOS

4. [1.1] MENG, Y.M. - SUN, J. - QV, N. - ZHANG, G.R. - YU, T. - PIAO, H.Z. Application of molecular imaging technology in tumor immunotherapy. In CELLULAR IMMUNOLOGY. ISSN 0008-8749, FEB 2020, vol. 348., Registrované v: WOS

5. [1.1] ZENG, J.R. - NING, Z.C. - WANG, Y.Z. - XIONG, H.B. Implications of CD39 in immune-related diseases. In INTERNATIONAL IMMUNOPHARMACOLOGY. ISSN 1567-5769, DEC 2020, vol. 89, A., Registrované v: WOS

ADMA18 RANJANI, V. - JANEČEK, Štefan - CHAI, K.P. - SHAHIR, S. - ZALIHA, R.N. - RAHMAN, R.A. - CHAN, K.G. - GOH, K.M. Protein engineering of selected residues from conserved sequence regions of a novel Anoxybacillus α-amylase. In Scientific Reports, 2014, vol. 4, p. 5850. (2013: 5.078 - IF, Q1 - JCR, 1.886 - SJR). (2014 - WOS, Scopus). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep05850

Citácie:

1. [1.1] CARVALHO, F. - FERNANDES, P. Enzymes in Sweeteners Production. In GREEN BIO-PROCESSES: ENZYMES IN INDUSTRIAL FOOD PROCESSING. ISSN 2522-8366, 2019, p. 151-179., Registrované v: WOS

2. [1.1] KIKANI, B.A. - KOURIEN, S. - RATHOD, U. Stability and Thermodynamic Attributes of Starch Hydrolyzing alpha-Amylase of Anoxybacillus rupiensis TS-4. In STARCH-STARKE. ISSN 0038-9056, JAN 2020, vol. 72, no. 1-2,1900105, Registrované v: WOS

3. [1.1] PINTO, E.S.M. - DORN, M. - FELTES, B.C. The tale of a versatile enzyme: Alpha-amylase evolution, structure, and potential biotechnological applications for the bioremediation of n-alkanes. In CHEMOSPHERE. ISSN 0045-6535, JUL 2020, vol. 250, 126202, Registrované v: WOS

ADMA19 SAVELLI, B. - LI, Q. - WEBER, M. - JEMMAT, A.M. - ROBITAILLE, A. - ZÁMOCKÝ, Marcel - MATHÉ, C. - DUNAND, C. RedoxiBase: a database for ROS homeostasis regulated proteins. In Redox Biology, 2019, vol. 26, no. 101247. (2018: 7.793 - IF, Q1 - JCR, 2.166 - SJR, Q1 - SJR). ISSN 2213-2317. Dostupné na: https://doi.org/10.1016/j.redox.2019.101247

Citácie:

1. [1.1] CATUCCI, G. - VALETTI, F. - SADEGHI, S.J. - GILARDI, G. Biochemical features of dye-decolorizing peroxidases: Current impact on lignin degradation. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, SEP 2020, vol. 67, no. 5, SI, p. 751-759., Registrované v: WOS

2. [1.1] LIANG, J.L. - WU, M. - CHEN, C. - MAI, M.J. - HUANG, J.S. - ZHU, P. Roles of Reactive Oxygen Species in Cardiac Differentiation, Reprogramming, and Regenerative Therapies. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, AUG 29 2020, vol. 2020., Registrované v: WOS

3. [1.1] SAMAVARCHI-TEHRANI, P. - SAMSON, R. - GINGRAS, A.C. Proximity Dependent Biotinylation: Key Enzymes and Adaptation to Proteomics Approaches. In MOLECULAR & CELLULAR PROTEOMICS. ISSN 1535-9476, MAY 2020, vol. 19, no. 5, p. 757-773., Registrované v: WOS

4. [1.1] SKODOVA-SVERAKOVA, I. - ZAHONOVA, K. - BUCKOVA, B. - FUSSY, Z. - YURCHENKO, V. - LUKES, J. Catalase and Ascorbate Peroxidase in Euglenozoan Protists. In PATHOGENS. APR 2020, vol. 9, no. 4., Registrované v: WOS

5. [1.2] XIU JUAN, Qin - JING JING, Qi - WAN FU, Dou - SHAN CHUN, Chen - YONG RUI, He - QIANG, Li. Identification of Rboh Family and the Response to Hormone and Citrus Bacterial Canker in Citrus. In Scientia Agricultura Sinica. ISSN 05781752, 2020-10-16, 53, 20, pp. 4189-4203., Registrované v: SCOPUS

6. [1.2] ZHOU, Michael - BAI, Yongsheng. Bioinf-PHP: Bioinformatics Pipeline for Protein Homology and Phylogeny. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). ISSN 03029743, 2020-01-01, 12403 LNCS, pp. 261-269., Registrované v: SCOPUS

ADMA20 SELIM, S.A. - AHMED, S.F. - ABDEL AZIZ, M. H. - ZAKARIA, A.M. - KLENA, J.D. - PANGALLO, Domenico. Prevalence and characterization of shiga-toxin O157:H7 and non-O157:H7 enterohemorrhagic Escherichia coli isolated from different sources. In Biotechnology & Biotechnological Equipment, 2013, vol. 27, p. 3834 - 3842. (2012: 0.622 - IF, Q4 - JCR, 0.234 - SJR). (2013 - WOS, SCOPUS). ISSN 1310-2818. Dostupné na: https://doi.org/10.5504/BBEQ.2013.0031

Citácie:

1. [1.1] TOPALCENGIZ, Z. - JEAMSRIPONG, S. - SPANNINGER, P.M. - PERSAD, A.K. - WANG, F. - BUCHANAN, R.L. - LEJEUNE, J. - KNIEL, K.E. - JAY-RUSSELL, M.T. - DANYLUK, M.D. Survival of Shiga Toxin-Producing Escherichia coli in Various Wild Animal Feces That May Contaminate Produce. In JOURNAL OF FOOD PROTECTION. ISSN 0362-028X, AUG 2020, vol. 83, no. 8, p. 1420-1429., Registrované v: WOS

ADMA21 STANO, Matej - BEKE, Gábor - KĽUČÁR, Ľuboš. viruSITE-integrated database for viral genomics. In Database, 2016, art. no. baw162. (2015: 2.627 - IF, Q1 - JCR, 1.491 - SJR, Q1 - SJR). ISSN 1758-0463. Dostupné na: https://doi.org/https://dx.doi.org/10.1093/database/baw162

Citácie:

1. [1.1] BANERJEE, A. - SANTRA, D. - MAITI, S. Energetics and IC50 based epitope screening in SARS CoV-2 (COVID 19) spike protein by immunoinformatic analysis implicating for a suitable vaccine development. In JOURNAL OF TRANSLATIONAL MEDICINE. JUL 10 2020, vol. 18, no.

1, 281., Registrované v: WOS
2. [1.1] BOST, P. - GILADI, A. - LIU, Y. - BENDJELAL, Y. - XU, G. - DAVID, E. - BLECHER-GONEN, R. - COHEN, M. - MEDAGLIA, C. - LI, H.J. - DECZKOWSKA, A. - ZHANG, S.Y. - SCHWIKOWSKI, B. - ZHANG, Z. - AMIT, I. Host-Viral Infection Maps Reveal Signatures of Severe COVID-19 Patients. In CELL. ISSN 0092-8674, JUN 25 2020, vol. 181, no. 7, p. 1475-+., Registrované v: WOS
3. [1.1] DOS SANTOS, R.N. - CAMPOS, F.S. - FINOKETTI, F. - DOS SANTOS, A.C. - CAMPOS, A.A.S. - WAGNER, P.G.C. - ROEHE, P.M. - BATISTA, H.B.D.R. - FRANCO, A.C. Viral diversity in oral cavity fromSapajus nigritusby metagenomic analyses. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, DEC 2020, vol. 51, no. 4, p. 1941-1951., Registrované v: WOS
4. [1.1] GLEIZES, A. - LAUBSCHER, F. - GUEX, N. - ISELI, C. - JUNIER, T. - CORDEY, S. - FELLAY, J. - XENARIOS, I. - KAISER, L. - LE MERCIER, P. Virosaurus A Reference to Explore and Capture Virus Genetic Diversity. In VIRUSES-BASEL. NOV 2020, vol. 12, no. 11, 1248., Registrované v: WOS
5. [1.1] KHAFIZOV, K.F. - SPERANSKAYA, A.S. - MATSVAY, A.D. - SHIPULIN, G.A. - DEDKOV, V.G. ADVANCED TECHNOLOGIES IN DIAGNOSTICS OF VIRAL DISEASES OF UNKNOWN ETIOLOGY. In INFEKTSIYA I IMMUNITET. ISSN 2220-7619, JAN-MAR 2020, vol. 10, no. 1, p. 9-25., Registrované v: WOS
6. [1.1] KISELEV, D. - MATSVAY, A. - ABRAMOV, I. - DEDKOV, V. - SHIPULIN, G. - KHAFIZOV, K. Current Trends in Diagnostics of Viral Infections of Unknown Etiology. In VIRUSES-BASEL. FEB 2020, vol. 12, no. 2, 211., Registrované v: WOS
7. [1.1] MADRONERO, L.J. - CORREDOR-ROZO, Z.L. - ESCOBAR-PEREZ, J. - VELANDIA-ROMERO, M.L. NEXT GENERATION SEQUENCING AND PROTEOMICS IN PLANT VIROLOGY: HOW IS COLOMBIA DOING?. In ACTA BIOLOGICA COLOMBIANA. ISSN 1900-1649, SEP-DEC 2019, vol. 24, no. 3, p. 423-438., Registrované v: WOS
8. [1.1] NAMBOU, K. - ANAKPA, M. Deciphering the co-adaptation of codon usage between respiratory coronaviruses and their human host uncovers candidate therapeutics for COVID-19. In INFECTION GENETICS AND EVOLUTION. ISSN 1567-1348, NOV 2020, vol. 85, 104471., Registrované v: WOS
9. [1.1] UGWU, C.C. - HAIR-BEJO, M. - NURULFIZA, M.I. - OMAR, A.R. - IDERIS, A. Propagation and Molecular Characterization of Fowl Adenovirus Serotype 8b Isolates in Chicken Embryo Liver Cells Adapted on Cytodex (TM) 1 Microcarrier Using Stirred Tank Bioreactor. In PROCESSES. SEP 2020, vol. 8, no. 9, 1065., Registrované v: WOS
10. [1.2] VLADIMIROVA, Mariia - AFONIN, Alexey - MUNTYAN, Virtoria - SIMAROV, Boris - ROUMIANTSEVA, Marina. Evaluation of Sinorhizobium meliloti Genomic Islands Inserted into the tRNA-Thr. In Proceedings 2020 Cognitive Sciences, Genomics and Bioinformatics, CSGB 2020, 2020-07-01, pp. 118-121., Registrované v: SCOPUS
11. [1.2] ZHANG, Yuqing - CAO, Jiabao - ZHAO, Na - WANG, Jun. Virome: the next hotspot in microbiome research. In Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology. ISSN 10003061, 2020-12-25, 36, 12, pp. 2566-2581., Registrované v: SCOPUS

ADMA22 SUN, Y.-Q. - BUSCHE, T. - RUCKERT, C. - PAULUS, C. - REBETS, Y. - NOVÁKOVÁ, Renáta - KALINOWSKI, J. - LUZHETSKYY, A. - KORMANEC, Ján - SEKUROVA, O.N. - ZOTCHEV, S.B. Development of a biosensor concept to detect the production of cluster-specific secondary metabolites. In ACS Synthetic Biology, 2017, vol. 6, p. 1026–1033. (2016: 5.382 - IF, Q1 - JCR, 2.793 - SJR, Q1 - SJR). ISSN 2161-5063. Dostupné na: https://doi.org/10.1021/acssynbio.6b00353

Citácie:
1. [1.1] VICKERY, C.R. - MCCULLOCH, I.P. - SONNENSCHEIN, E.C. - BELD, J. - NOEL, J.P. - BURKART, M.D. Dissecting modular synthases through inhibition: A complementary chemical and genetic approach. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, JAN 15 2020, vol. 30, no. 2., Registrované v: WOS

ADMA23 ŠEBOVÁ, Radka - BAUEROVÁ-HLINKOVÁ, Vladena** - BECK, K - NEMČOVIČOVÁ, Ivana - BAUER, Jacob - KÚDELOVÁ, Marcela**. Residue mutations in murine herpesvirus 68 immunomodulatory protein M3 reveal specific modulation of chemokine binding. In Frontiers in Cellular and Infection Microbiology : Specialty Journal of Frontiers in Microbiology., 2019, vol. 9, art. no. 210. (2018: 3.518 - IF, Q2 - JCR, 1.541 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 2235-2988. Dostupné na: https://doi.org/10.3389/fcimb.2019.00210 (APVV-15-0474 : Identifikácia vírusu EBHS a vybraných patogénov ako možnej príčiny poklesu početnosti zajaca poľného (Lepus europaeus) na Slovensku. APVV-0621-12 : Myší herpetický vírus, producent látok s imunomodulačnými a antiprollferatívnymi vlastnosťami. VEGA 2/0087/17 : Imunomodulačné vlastnosti M3 proteínu Myšieho herpetického vírusu a úloha kliešťov v cirkulácii herpesvírusu v prírode)

Citácie:

1. [1.1] YARON, Jordan R. - ZHANG, Liqiang - GUO, Qiuyun - BURGIN, Michelle - SCHUTZ, Lauren N. - AWO, Enkidia - WISE, Lyn - KRAUSE, Kurt L. - ILDEFONSO, Cristhian J. - KWIECIEN, Jacek M. - JUBY, Michael - RAHMAN, Masmudur M. - CHEN, Hao - MOYER, Richard W. - ALCAMI, Antonio - MCFADDEN, Grant - LUCAS, Alexandra R. Deriving Immune Modulating Drugs from Viruses-A New Class of Biologics. In JOURNAL OF CLINICAL MEDICINE, 2020, vol. 9, no. 4, pp., Registrované v: WOS

2. [1.2] HERNAEZ, Bruno - ALCAMÍ, Antonio. Virus-encoded cytokine and chemokine decoy receptors. In Current Opinion in Immunology. ISSN 09527915, 2020-10-01, 66, pp. 50-56., Registrované v: SCOPUS

ADMA24 ŠIMONOVIČOVÁ, A. - KRAKOVÁ, Lucia - PIECKOVÁ, Elena - PLANÝ, Matej - GLOBANOVÁ, M. - PAUDITŠOVÁ, E. - ŠOLTYS, Katarína - BUDIŠ, J. - SZEMES, Tomáš - GÁFRIKOVÁ, J. - PANGALLO, Domenico**. Soil microbiota of dystric cambisol in the High Tatra mountains (Slovakia) after windthrow. In Sustainability, 2019, vol. 11, no. 23, p. 6851. (2018: 2.592 - IF, Q2 - JCR, 0.549 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2071-1050. Dostupné na: https://doi.org/10.3390/su11236851

Citácie:

1. [1.1] KOSUNEN, M. - PELTONIEMI, K. - PENNANEN, T. - LYYTIKAINEN-SAARENMAA, P. - ADAMCZYK, B. - FRITZE, H. - ZHOU, X. - STARR, M. Storm and Ips typographus disturbance effects on carbon stocks, humus layer carbon fractions and microbial community composition in boreal Picea abies stands. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, SEP 2020, vol. 148, 107853, Registrované v: WOS

ADMA25 ŠIMONOVIČOVÁ, Alexandra - KUPKA, Daniel - NOSALJ, Sanja - KRAKOVÁ, Lucia - DRAHOVSKÁ, H. - BÁRTOVÁ, Zuzana - VOJTKOVÁ, Hana - BOTUROVÁ, Kateřina - PANGALLO, Domenico**. Differences in metabolites production using the Biolog FF Microplate™ system with an emphasis on some organic acids of Aspergillus niger wild type strains. In Biologia, 2020, vol. 75, no. 10, p. 1537-1546. (2019: 0.811 - IF, Q4 - JCR, 0.265 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-020-00521-y (VEGA č. 2/0142/19 : Štúdium biooxidačných a bioredukčných procesov síry a jej zlúčenín v životnom prostredí a v priemysle)

Citácie:

1. [1.1] LI, C. - ZHOU, J.W. - DU, G.C. - CHEN, J. - TAKAHASHI, S. - LIU, S. Developing Aspergillus niger as a cell factory for food enzyme production. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, NOV 15 2020, vol. 44., Registrované v: WOS

2. [1.2] KUČOVÁ, Kateřina. Bioaccumulation of hazardous metals by plants in post-mine dump sites. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2020-01-01, 2020-August, 5.1, pp. 99-105., Registrované v: SCOPUS

3. [1.2] PAVLÍKOVÁ, Marie. Impact of textile industry wastewater on microorganisms of activated sludge. In International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. ISSN 13142704, 2020-01-01, 2020-August, 6.1, pp. 253-258., Registrované v: SCOPUS

ADMA26 ZÁMOCKÝ, Marcel - TAFER, H. - CHOVANOVÁ, Katarína - LOPANDIC, Ksenija - KAMLÁROVÁ, Anna - OBINGER, C. Genome sequence of the filamentous soil fungus Chaetomium cochliodes reveals abundance of genes for heme enzymes from all peroxidase and catalase superfamilies. In BMC Genomics, 2016, vol. 17, p. 763. (2015: 3.867 - IF, Q1 - JCR, 2.348 - SJR, Q1 - SJR). ISSN 1471-2164. Dostupné na: https://doi.org/10.1186/s12864-016-3111-6

Citácie:

1. [1.1] DARSHAN, K. - AGGARWAL, R. - BASHYAL, B.M. - SINGH, J. - SHANMUGAM, V. - GURJAR, M.S. - SOLANKE, A.U. Transcriptome Profiling Provides Insights Into Potential Antagonistic Mechanisms Involved in Chaetomium globosum Against Bipolaris sorokiniana. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, DEC 7 2020, vol. 11., Registrované v: WOS

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

ADMB01 BUSCHE, T. - NOVÁKOVÁ, Renáta - AL';DILAIMI, A. - HOMEROVÁ, Dagmar - FECKOVÁ, Ľubomíra - REŽUCHOVÁ, Bronislava - MINGYAR, Erik - CSÖLLEIOVÁ, Dominika - BEKEOVÁ, Carmen - WINKLER, A. - ŠEVČÍKOVÁ, Beatrica - KALINOWSKI, J. - KORMANEC, Ján - RUCKERT, C. Complete genome sequence of Streptomyces lavendulae subsp. lavendulae CCM 3239 (formerly “Streptomyces aureofaciens CCM 3239”), a producer of the Angucycline-Type antibiotic Auricin. In Genome Announcements, 2018, vol. 6, no. 9, no. e00103-18. (2017: 0.553 - SJR, Q3 - SJR). ISSN 2169-8287. Dostupné na:

https://doi.org/10.1128/genomeA.00103-18

Citácie:

1. [1.1] JUETTNER, N.E. - BOGEN, J.P. - BAUER, T.A. - KNAPP, S. - PFEIFER, F. - HUETTENHAIN, S.H. - MEUSINGER, R. - KRAEMER, A. - FUCHSBAUER, H.L. Decoding the Papain Inhibitor from Streptomyces mobaraensis as Being Hydroxylated Chymostatin Derivatives: Purification, Structure Analysis, and Putative Biosynthetic Pathway. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, OCT 23 2020, vol. 83, no. 10, p. 2983-2995., Registrované v: WOS

2. [1.2] ASNANI, A. - AMALIYAH, R. - YUNIATY, A. Screening Anti-MRSA Activities of Indigenous Microbes and Prediction of the Biosynthetic Gene Clusters. In Journal of Physics: Conference Series. ISSN 17426588, 2020, 1665, 1, pp., Registrované v: SCOPUS

ADMB02 CSÁDEROVÁ, Lucia - DEBREOVÁ, M. - RADVÁK, Peter - STANO, Matej - VREŠTIAKOVÁ, Magdaléna - KOPÁČEK, Juraj - PASTOREKOVÁ, Silvia - ŠVASTOVÁ, Eliška. The effect of carbonic anhydrase IX on focal contacts during cell spreading and migration. In Frontiers in Physiology, 2013, vol. 4, no. 271, p. 1-12. (2012: 0.840 - SJR, Q2 - SJR). (2013 - SCOPUS). ISSN 1664-042X. Dostupné na: https://doi.org/10.3389/fphys.2013.00271 (APVV-0658-11 : Karbonická anhydráza IX ako funkčný komponent nádorovej progresie: úloha v epitelovo-mezenchýmovej tranzícii a v prenose medzibunkových signálov. APVV-0108-10 : Identifikácia molekulových dráh riadených prostredníctvom hypoxia-indukovanej anhydrázy IX kyseliny uhličitej v nádorových bunkách. VEGA 2/0130/11 : Úloha karbonickej anhydrázy IX v bunkovej migrácii ako zložke metastatickej kaskády)

Citácie:

1. [1.1] AL-SHARAKY, D.R. - KANDIL, M.A. - AIAD, H.A.S. - EL-HOSARY, E.M. - ALAGIZY, H.A. - ELSHENAWY, M.A.S. - EL-REBEY, H.S. ROC-1, P21 and CAIX as markers of tumor aggressiveness in bladder carcinoma in Egyptian patients. In DIAGNOSTIC PATHOLOGY. APR 7 2020, vol. 15, no. 1., Registrované v: WOS

2. [1.1] BASSANI, I. - RANCUREL, C. - PAGNOTTA, S. - ORANGE, F. - PONS, N. - LEBRIGAND, K. - PANABIERES, F. - COUNILLON, L. - NOBLIN, X. - GALIANA, E. Transcriptomic and Ultrastructural Signatures of K+-Induced Aggregation inPhytophthora parasiticaZoospores. In MICROORGANISMS. JUL 2020, vol. 8, no. 7., Registrované v: WOS

3. [1.1] BECKER, H.M. - DEITMER, J.W. Transport Metabolons and Acid/Base Balance in Tumor Cells. In CANCERS. APR 2020, vol. 12, no. 4., Registrované v: WOS

4. [1.1] BECKER, H.M. Carbonic anhydrase IX and acid transport in cancer. In BRITISH JOURNAL OF CANCER. ISSN 0007-0920, JAN 2020, vol. 122, no. 2, p. 157-167., Registrované v: WOS

5. [1.1] DAUNYS, S. - PETRIKAITE, V. The roles of carbonic anhydrases IX and XII in cancer cell adhesion, migration, invasion and metastasis. In BIOLOGY OF THE CELL. ISSN 0248-4900, DEC 2020, vol. 112, no. 12, p. 383-397., Registrované v: WOS

6. [1.1] DVORANOVA, J. - KUGLER, M. - HOLUB, J. - SICHA, V. - DAS, V. - NEKVINDA, J. - EL ANWAR, S. - HAVRANEK, M. - POSPISILOVA, K. - FABRY, M. - KRAL, V. - MEDVEDIKOVA, M. - MATEJKOVA, S. - LISKOVA, B. - GURSKA, S. - DZUBAK, P. - BRYNDA, J. - HAJDUCH, M. - GRUNER, B. - REZACOVA, P. Sulfonamido carboranes as highly selective inhibitors of cancer-specific carbonic anhydrase IX. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, AUG 15 2020, vol. 200., Registrované v: WOS

7. [1.1] HUANG, B.R. - LIU, Y.S. - LAI, S.W. - LIN, H.J. - SHEN, C.K. - YANG, L.Y. - LU, D.Y. CAIX Regulates GBM Motility and TAM Adhesion and Polarization through EGFR/STAT3 under Hypoxic Conditions. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. AUG 2020, vol. 21, no. 16., Registrované v: WOS

8. [1.1] JOHN, A. - VETRIVEL, U. - SIVASHANMUGAM, M. - NATARAJAN, S.K. Microsecond Simulation of the Proteoglycan-like Region of Carbonic Anhydrase IX and Design of Chemical Inhibitors Targeting pH Homeostasis in Cancer Cells. In ACS OMEGA. ISSN 2470-1343, MAR 3 2020, vol. 5, no. 8, p. 4270-4281., Registrované v: WOS

9. [1.1] LEE, S.H. - GRIFFITHS, J.R. How and Why Are Cancers Acidic? Carbonic Anhydrase IX and the Homeostatic Control of Tumour Extracellular pH. In CANCERS. JUN 2020, vol. 12, no. 6., Registrované v: WOS

10. [1.1] LI, Z. - JIANG, L. - TOYOKUNI, S. Role of carbonic anhydrases in ferroptosis-resistance. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, AUG 15 2020, vol. 689., Registrované v: WOS

ADMB03 SADIAN, Y. - GATSOGIANNIS, C. - PATASI, Csilla - HOFNAGEL, O. - GOODY, R.S. - FARKAŠOVSKÝ, Marian - RAUNSER, S. The role of Cdc42 and Gic1 in the regulation of septin filament formation and dissociation. In eLife, 2013, vol. 2, no. e01085. (2013 - SCOPUS). ISSN 2050-084X. Dostupné na: https://doi.org/10.7554/eLife.01085

Citácie:

1. [1.1] CHOLLET, J. - DUNKLER, A. - BAUERLE, A. - VIVERO-POL, L. - MULAW, M.A. -

GRONEMEYER, T. - JOHNSSON, N. Cdc24 interacts with septins to create a positive feedback loop during bud site assembly in yeast. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, JUN 2020, vol. 133, no. 11, jcs240283., Registrované v: WOS
2. [1.1] MILLER, K.E. - KANG, P.J. - PARK, H.O. Regulation of Cdc42 for polarized growth in budding yeast. In MICROBIAL CELL. ISSN 2311-2638, JUL 2020, vol. 7, no. 7, p. 175-189., Registrované v: WOS
3. [1.1] PRABHAKAR, A. - CHOW, J. - SIEGEL, A.J. - CULLEN, P.J. Regulation of intrinsic polarity establishment by a differentiation-type MAPK pathway in S. cerevisiae. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, APR 2020, vol. 133, no. 7, jcs241513., Registrované v: WOS
4. [1.1] SAADELDIN, I.M. - SWELUM, A.A.A. - ELSAFADI, M. - MAHMOOD, A. - OSAMA, A. - SHIKSHAKY, H. - ALFAYEZ, M. - ALOWAIMER, A.N. - MAGDELDIN, S. Thermotolerance and plasticity of camel somatic cells exposed to acute and chronic heat stress. In JOURNAL OF ADVANCED RESEARCH. ISSN 2090-1232, MAR 2020, vol. 22, p. 105-118., Registrované v: WOS

ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNA01 UGORČÁKOVÁ, Jana - HLAVATY, T. - NOVOTNA, T. - BUKOVSKÁ, Gabriela. Detection of point mutations in KRAS oncogene by real-time PCR-based genotyping assay in GIT diseases. In Bratislavské lekárske listy : international journal for biomedical sciences and clinical medicine, 2012, vol. 113, p. 73-79. (2011: 0.403 - IF, Q4 - JCR, 0.161 - SJR, Q3 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2012_018

Citácie:
1. [2.1] YILMAZ, N. - YILMAZ, U. - TANBEK, K. - ARIKAN, S. - AKSAKAL, N. - ZEYBEK, U. - ERGEN, A. The role of miRNAs targeting K-ras and APC genes in colorectal cancer. In BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY. ISSN 0006-9248, 2020, vol. 121, no. 8, p. 554-557., Registrované v: WOS

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNB01 JAMRICHOVÁ, D. - GODÁNY, Andrej - URBÁNIKOVÁ, Ľubica. Optimization of expression conditions of the acetylesterase CE16 from hypocrea jecorina encoded by a synthetic gene and expressed in escherichia coli cells. In Nova Biotechnologica et Chimica, 2015, vol. 14, p. 201-211. (2014: 0.140 - SJR, Q4 - SJR). ISSN 1338-6905. Dostupné na: https://doi.org/10.1515/nbec-2015-0027

Citácie:
1. [1.2] SMEKENOV, Izat - ALYBAYEV, Sanzhar - AYUPOV, Temurkhan - RAKHMATULLAEVA, Guliza - BISSENBAEV, Amangeldy. A polyclonal antibody against a recombinantly expressed Triticum aestivum RHT-D1A protein. In Journal of Genetic Engineering and Biotechnology. ISSN 1687157X, 2020-12-01, 18, 1, pp., Registrované v: SCOPUS

ADNB02 PLANÝ, Matej - KUCHTA, T. - ŠOLTÝS, K. - SZEMEŠ, T. - PANGALLO, Domenico - SIEKEL, P. Metagenomic analysis of Slovak bryndza cheese using next-generation 16S rDNA amplicon. In Nova Biotechnologica et Chimica, 2016, vol. 15, no. 1, p. 23-34. (2015: 0.168 - SJR, Q4 - SJR). ISSN 1338-6905. Dostupné na: https://doi.org/10.1515/nbec-2016-0003

Citácie:
1. [1.1] GAGLIO, R. - FRANCIOSI, E. - TODARO, A. - GUARCELLO, R. - ALFEO, V. - RANDAZZO, C.L. - SETTANNI, L. - TODARO, M. Addition of selected starter/non-starter lactic acid bacterial inoculums to stabilise PDO Pecorino Siciliano cheese production. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, OCT 2020, vol. 136., Registrované v: WOS
2. [1.1] STEFANIKOVA, J. - DUCKOVA, V. - MISKEJE, M. - KACANIOVA, M. - CANIGOVA, M. The Impact of Different Factors on the Quality and Volatile Organic Compounds Profile in "Bryndza" Cheese. In FOODS. SEP 2020, vol. 9, no. 9., Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 PEŤKOVÁ, K. - VOJTKOVÁ, Hana - JURKOVIČ, Ľubomír - FERIANC, Peter - REMENÁR, Matej. Isolation and identification of bacteria isolates from arsenic contaminated anthroposoils. In 14th GeoConference on Energy and Clean Technologies : proceedings from International Multidisciplinary Scientific Geoconference, 17-26 June, 2014. I. - Sofia, Bulgaria : STEF92

Technology Ltd., Andrey Lypchev Blvd., 1797 Sofia, Bulgaria, 2014, p. 399-404. ISBN 978-619-7105-16-2. ISSN 1314-2704. (International Multidisciplinary Scientific Geoconferences : SGEM 2014)

Citácie:

1. [1.1] BOTUROVA, K. Microbiota as an indicator of the environmental burden of mined-out sites. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012004., Registrované v: WOS

2. [1.1] DLABAJA, M. Utilisation of secondary raw materials for production of artificial soils substrate. In ADVANCES IN ENVIRONMENTAL ENGINEERING (AEE2019). ISSN 1755-1307, 2020, vol. 444, 012011., Registrované v: WOS

AFK Postery zo zahraničných konferencií

AFK01 STRUHARNANSKA, E. - LEVARSKI, Z. - BÍROVÁ, S. - STUCHLIK, S. - TURNA, Ján - ZÁMOCKÝ, Marcel. Effect of recombinant catalase AfKatG as an additive in growth media of food strains. In Journal of Biotechnology : European Biotechnology Congress 2018 Athens, 2018, vol. 280, p. S60. (2017: 2.533 - IF, Q2 - JCR, 0.929 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2018.06.196

Citácie:

1. [1.1] XU, L. - NING, X.B. - CHAI, H.Y. - FEI, G.Q. Preliminary evaluation of irradiated medium and the optimization of conditions for a catalase produced by Bacillus firmus GL3. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, APR 2020, vol. 14, no. 2, p. 1073-1084., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Jacob Bauer, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Štruktúra a funkcia bioaktívnych proteínov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Právnická fakulta UK, Katedra molekulárnej biológie

Semestrálne cvičenia:

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Štruktúra a funkcia bioaktívnych proteínov
Počet hodín za semester: 2

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

Mgr. Dominik Hadžega
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ráchel Javorová
Názov semestr. predmetu: Cvičenia z mikrobiológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Ráchel Javorová
Názov semestr. predmetu: Cvičenia z mikrobiológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Ing. Evelína Kalocsaiová
Názov semestr. predmetu: Základné cvičenie z molekulárnej biológie
Počet hodín za semester: 14
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekularnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Kristína Pápayová
Názov semestr. predmetu: Molekulárna biológia - cvičenia
Počet hodín za semester: 15
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Andrej Poljovka
Názov semestr. predmetu: Cvičenie zo základnej molekulárnej biológie
Počet hodín za semester: 14
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Molekulárna biológia

Mgr. Magdaléna Rusková
Názov semestr. predmetu: Cvičenia z mikrobiológie
Počet hodín za semester: 20
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Monika Zámocká
Názov semestr. predmetu: Cvičenia zo základnej molekulárnej biológie
Počet hodín za semester: 14
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Molekulárna biológia

Semináre:

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Pokroky v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 5
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 5
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biotechnológií

RNDr. Ľubica Urbániková, CSc.
Názov semestr. predmetu: Štruktúrna biológia - Kryštalografia proteínov a nukleových kyselín
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochémie

Terénne cvičenia:

Individuálne prednášky:

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Pokročilé prednášky z molekulárnej biológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra genetiky

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Pokročilé prednášky z molekulárnej biológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Pokročilé prednášky z molekulárnej biológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

RNDr. Ján Kormanec, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z mikrobiológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie PriF UK

Ing. Eva Kutejová, DrSc.
Názov semestr. predmetu: Izolácia proteínov - od expresie ku chromatografii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Genetika

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**
Česko					Eva Kutejová	1
Dánsko					Štefan Janeček	8
					Filip Mareček	183
Počet vyslaní spolu					**3**	**192**

(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**
Poľsko					Karolina Pelka	108
Taliansko					Pierluca Nuccetelli	105
Počet prijatí spolu					**2**	**213**

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Argentína (online)	RedTEz	Štefan Janeček	3
Bulharsko (online)	PRACE	Lucia Bocánová	5
		Kristína Pápayová	5
Česko	XXVI. Annual Congress of CSBMB and SSBMB	Imrich Barák	4
		Zuzana Chromiková	4
		Ráchel Javorová	2
		Ján Kormanec	4
		Eva Kutejová	4
		Barbora Stojkovičová	4
Česko (online)	ELIXIR All Hands meeting 2021	Ľuboš Kľučár	11
	Tomáškovy dny 2021	Kristína Pápayová	1
Francúzsko (online)	HELICASES2021	Nora Halgašová	4
Taliansko (online)	GOBLET & EMBnet AGM 2021	Ľuboš Kľučár	3
USA (online)	GCC2021	Dominik Hadžega	8
		Ľuboš Kľučár	8

Spolu	**8**	**15**	**70**

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

Skratky použité v tabuľke C:

ELIXIR All Hands meeting 2021 - ELIXIR All Hands meeting 2021
GCC2021 - 2021 Galaxy Community Conference
GOBLET & EMBnet AGM 2021 - GOBLET & EMBnet AGM 2021
HELICASES2021 - Helicases and Nucleic Acid-Based Machines: Structure, Mechanism and Regulation and Roles in Human Disease
PRACE - PRACE Autumn School 2021: Fundamentals of Biomolecular Simulations and Virtual Drug Development
RedTEz - Third Meeting & First Workshop of the Argentine Network of Enzymatic Technology
Tomáškovy dny 2021 - Tomáškovy dny 2021, 30. konference mladých mikrobiologů
XXVI. Annual Congress of CSBMB and SSBMB - XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with cooperation of Austrian and German Biochemical Section

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Imrich Barák, DrSc.		TL	Bakteriálne bunky pod stresom vystreľujú dlhé nanotrubice a zomierajú	Monitor Mediciny SLS 1-2/2021, vol. 11	2021
RNDr. Imrich Barák, DrSc.		PB	https://www.tyzden.sk/video/71311/pod-lampou-o-revolucnom-objave-rodi-sa-skutocny-liek-proti-covidu/?rtm_source=newsletter_daily&rtm_medium=email&rtm_campaign=denny-newsletter-26.2.2020&ref=tit pod la	Týždeň - Pod lampou	26.2.2021
RNDr. Imrich Barák, DrSc.	-	TL	Článok o finalistoch ESET Science Award	Forbes Next	1.10.2021
RNDr. Imrich Barák, DrSc.	-	IN	Jednoducho veda, Týždeň - Bunky, spóry, antobiotiká	https://www.tyzden.sk/video/78831/jednoducho-veda--bunky-spory-antibiotika-s-imrichom-barakom-/?ref=kat	22.11.2021
RNDr. Imrich Barák, DrSc.	-	TV	Nočná pyramída	STV3	3.10.2021
RNDr. Imrich Barák, DrSc.	-	TL	Rozhovor - (Ne)smrteľné baktérie	Quark	1.9.2021
RNDr. Imrich Barák, DrSc.	-	TL	Rozhovor so slovenským vedcom	Dennik N	17.9.2021
Mgr. Marcela Bučeková, PhD.		TL	Marcela Bučeková, PhD.: Kvalitný med môže byť drahý. Doma ním treba šetriť	Rikiki magazín moderného rodiča	2021
Mgr. Marcela Bučeková, PhD.		RO	RTVS - Rádio Slovensko - rozhovor	RTVS - Rádio Slovensko	13.12.2021
RNDr. Gabriela Bukovská, CSc.		TL	Článok : "Odolnosť baktérií na antibiotiká by mohla vyriešiť fágová terapia"	Pravda	3.1.2021
RNDr. Gabriela Bukovská, CSc.		TL	Článok "Fágová terapia zo Slovenska" https://www.quark.sk/fagova-terapia-zo-slovenska/	Quark	8.12.2021
RNDr. Gabriela Bukovská, CSc.		TL	Článok "Nebezpečné retiazky" https://www.quark.sk/nebezpecne-retiazky/	Quark	21.10.2021
Prof. Ing. Štefan Janeček, DrSc.	Nicolas Terrapon,	IN	Recent Advances in Carbohydrate-Active	https://molecules-12.sciforum.net/	23.6.2021

	Elizabeth Ficko-Blean		Enzymes - webinar		
Ing. Juraj Majtán, DrSc.		TL	Antibiotikum budúcnosti?Med!	Moje zdravie 3/2021	1.3.2021
Ing. Juraj Majtán, DrSc.		RO	Diskusia o mede a včelích proruktoch	Slovenský rozhlas - sobotné dobré ráno	7.8.2021
Ing. Juraj Majtán, DrSc.		TV	Naši svetoví - zaostrené	Správy RTVS	22.10.2021
Ing. Juraj Majtán, DrSc.		PB	Nové kvalitatívne parametre medu	Brusno - kultúrny dom	8.8.2021
Ing. Juraj Majtán, DrSc.		TV	Noviny o 12	Tv JOJ	1.10.2021
Ing. Juraj Majtán, DrSc.		IN	Ocenený vedec: Na Slovensku máme jeden z najlepších medov sveta. Odhaliť v obchode nekvalitný je priam nereálne	www.startitup.sk	2.11.2021
Ing. Juraj Majtán, DrSc.		IN	Odborník na med: Pri jeho skladovaní by ste nikdy nemali robiť TÚTO CHYBU, inak stratí účinky!	www1.pluska.sk	25.12.2021
Ing. Juraj Majtán, DrSc.		TL	V našom výskume ostáva nezodpovedaných ešte veľmi veľa otázok	Včelár 11/2021	1.11.2021
Ing. Juraj Majtán, DrSc.		IN	Vedec Juraj Majtán patrí vo výskume medu k svetovej špičke.	www.dalito.sk	9.11.2021
Ing. Juraj Majtán, DrSc.		PB	Všetko o mede	Bardejov - Bašta	25.6.2021
Ing. Juraj Majtán, DrSc.	Marcela Bučeková	IN	Vo svojom Medovom laboratóriu skúmajú kvalitu a účinky medu. Čo ním môžeme liečiť?	Forbes magazín	26.7.2021
Ing. Juraj Majtán, DrSc.	Martin Nikodým, Róbert Kňažko	PB	Včely v meste	Urban market - Tyršovo nábrežie v Bratislave	14.8.2021
Ing. Juraj Majtán, DrSc.	Róbert Kňažko	TV	Ako sa darí včelám v meste?	TV Bratislava	18.8.2021
Mgr. Vladimír Leksa, PhD.		TL	popularizačné články	https://dennikn.sk/autor/vladimir-leksa/	35

[1] *PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film*