

**Chemický ústav
Slovenskej akadémie vied**



**SPRÁVA O ČINNOSTI
ZA ROK 2013**

**Bratislava
január 2014**

Obsah Správy o činnosti Chemického ústavu SAV za rok 2013

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- E Medzinárodná mobilita organizácie*

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV

Riaditeľ: Ing. Miroslav Koóš, DrSc.

Zástupca riaditeľa: RNDr. Ján Gajdoš, PhD.

Vedecký tajomník: RNDr. Desana Lišková, PhD.

Predseda vedeckej rady: Ing. Ján Tkáč, DrSc.

Členovia snemu SAV: Ing. Miroslav Koóš, DrSc.

Adresa: Dúbravská cesta 9, 845 38 Bratislava

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Tel.: 02/ 59410201, 02/ 54772080

Fax: 02/ 59410222

E-mail: chemsekr@savba.sk

Názvy a adresy detašovaných pracovísk: nie sú

Vedúci detašovaných pracovísk: nie sú

Typ organizácie: Príspevková od roku 2009

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	130	49	81	6	21	120	109,74	62,83
Vedeckí pracovníci	70	33	37	4	14	61	53,34	50,84
Odborní pracovníci VŠ	20	6	14	2	6	20	17,99	11,99
Odborní pracovníci ÚS	30	4	26	0	1	29	29,13	0
Ostatní pracovníci	10	6	4	0	0	10	9,28	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2013 (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 31.12.2013 (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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2013)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	10	23	1	2	10	15	8
Ženy	1	36	0	0	2	17	18

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

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
Muži	2	2	5	3	1	2	4	6	6
Ženy	8	8	1	3	2	3	11	3	2

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2013

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	52,7	51,2	52,0
Ženy	47,5	45,6	45,5
Spolu	49,4	48,3	48,3

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

V roku 2013 nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii Chemického ústavu SAV, ktorá bola naďalej zameraná na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

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

Chemický ústav SAV bol v rámci posledných dvoch pravidelných hodnotení vedeckých organizácií SAV (akreditácie) v roku 2007 a 2012 zaradený do najvyšších skupín (A* resp. A), čo svedčí o vysokej kvalite vedecko-výskumnej práce a ostatných zohľadňovaných ukazovateľov.

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Zoznam domácich projektov riešených v roku 2013

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2013 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Vedecké projekty, ktoré boli r. 2013 financované VEGA	17	3	148435	148435	31104
2. Projekty, ktoré boli r. 2013 financované APVV	5	8	74327	74327	32191
3. Projekty OP ŠF	3	2	242936	46956	394242
4. Projekty centier excelentnosti SAV	1	0	2228	2228	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2. Medzinárodné projekty**2.2.1. Medzinárodné projekty riešené v roku 2013**

Tabuľka 2b Zoznam medzinárodných projektov riešených v roku 2013

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2013 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Projekty 7. Rámcového programu EÚ	1	5	134974	134974	36808
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	0	8	-	-	-
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	4	0	9778	9778	-
4. Bilaterálne projekty	4	1	22000	25000	5000
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	1	12	26983	26983	56912
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

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

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Ultracitlivé stanovovanie glykoproteínov lektínovými biosenzormi (Tkáč, Bertók, Katrlík, Gemeiner, Šedivá)

Viaceré typy elektrochemických lektínových biosenzorov boli pripravené s využitím kontroly procesu imobilizácie lektínov v nanoškále. Prvým z nich bol biosenzor využívajúci kontrolu hustoty imobilizovaného lektínu s využitím dvojzložkových samousporiadaných vrstiev na zlatých povrchoch. Takýmto spôsobom bolo možné stanoviť dva glykoproteíny obsahujúce terminálnu kyselinu sialovú (asialofetuín a fetuín) s detekčným limitom pod 1 fM (1×10^{-15} M), čo bol v tom čase najcitlivejší lektínový biosenzor na stanovenie glykoproteínov. Využitím zlatých nanočastíc sa limit stanovenia týchto dvoch glykoproteínov dokázal posunúť pod 1 aM (1×10^{-18} M), čo je v súčasnosti najcitlivejší lektínový biosenzor na analýzu glykoproteínov. Lektínovými biosenzormi bolo možné analyzovať aj vzorky ľudských sér a výsledky ukázali, že glykozylácia protilátok u ľudí s reumatoidnou artritídou je iná ako u zdravých ľudí a preto zmeny v glykozylácii ľudských sér môžu slúžiť na diagnostiku tohto ochorenia. Tieto výsledky naznačujú, že technika elektrochemickej impedančnej spektroskopie je veľmi sľubným nástrojom v analýze veľmi nízkych koncentrácií glykoproteínov s potenciálom pre diagnostiku rôznych ochorení v ich rannom štádiu. Projekt APVV-0282-11 a ERC-FP7-311532 (Chemický ústav SAV).

BERTÓK Tomáš - GEMEINER, Pavol - MIKULA, Milan - GEMEINER, Peter - TKÁČ, Jan. Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. In *Microchimica Acta*, 2013, vol. 180, p. 151-159. (3.434 - IF2012). ISSN 0026-3672. (ADCA)

BERTÓK, Tomáš - ŠEDIVÁ, Alena - KATRLÍK, Jaroslav - GEMEINER, Pavol - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In *Talanta*, 2013, vol. 108, p. 11-18. (3.498 - IF2012). ISSN 0039-9140. (ADCA)

BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - ŠEDIVÁ, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. In *Analytical Chemistry*, 2013, vol. 85, p. 7324-7332. (5.695 - IF2012). ISSN 0003-2700. (ADCA)

BERTÓK Tomáš - KATRLÍK, Jaroslav - GEMEINER, Peter - TKÁČ, Ján. Electrochemical lectin based biosensors as a label-free tool in glycomics. In *Microchimica Acta*, 2013, vol. 180, p. 1-13. (3.434 - IF2012). ISSN 0026-3672. (ADCA)

2.3.2. Aplikačný typ

Prvý ampérometrický biosenzor na monitorovanie Baeyer-Villigerovej biooxidácie dôležitej pre syntézu prekursorov nových liečiv (Schenk Mayerová, Bučko, Gemeiner, Katrlík)

Bol vyvinutý prvý biosenzor na monitorovanie Baeyerovej-Villigerovej biooxidácie. Ako biorozpoznávací element boli použité rekombinantné bunky *Escherichia coli* s nadexprimovanou cyklopentanón resp. cyklohexanón monooxygenázou, ktoré boli imobilizované v polyelektrolytovej matici vo forme membrány. Ako prevodník sa použila miniaturizovaná kyslíková elektróda. Biosenzor bol použitý na meranie reálnych vzoriek z biotransformácie a výsledky boli korelované s referenčnou analýzou plynovou chromatografiou, pričom sa dosiahla dobrá zhoda. Projekt VEGA

1/0229/12, VEGA 1/0127/10 a APVV-0302-10 **(Chemický ústav SAV).**

SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - KATRLÍK, Jaroslav. Microbial monooxygenase amperometric biosensor for monitoring of Baeyer–Villiger biotransformation. In *Biosensors and Bioelectronics*, 2013, vol. 50, p. 235-238. (5.437 - IF2012). ISSN 0956-5663. (ADCA)

2.3.3. Medzinárodné vedecké projekty

Mikroorganizmy oblačnej vody a ich potenciálna implikácia v atmosferickej chémii (Cloud microorganisms and their potential implication in atmospheric chemistry) (Matulová)

Oblaky môžu byť považované za komplexné reaktory, v ktorých sa odohráva multifázová chémia. Porozumenie v nej zahrnutých procesov je rozhodujúce, pretože môžu mať dopad na vytváranie oblakov, formu zrážok a tým aj na podnebie. Až donedávna boli študované iba abiotické procesy, vedúce k transformácii organických zlúčenín prítomných v atmosfére, zahrňujúce radikálovú chémiu a to hlavne fotochémiu. Objavením prítomnosti živých, metabolicky aktívnych mikroorganizmov v oblačnej vode vyvolalo novú vedeckú otázku, či sú tieto mikroorganizmy schopné bio transformovať tieto zlúčeniny vďaka svojmu metabolizmu a teda či môžu biologické procesy konkurovať abiotickým procesom. Projekt APVV SK-FR-0030-11. **(Chemický ústav SAV).**

JOLY, Muriel - DEGUILLAUME, Laurent - VAÍTILINGOM, Mickaël - LONG, Yoann - VINATIER, Virginie - MATULOVÁ, Mária - CHAUMERLIAC, Nadine - SANCELME, Martine - DELORT, Anne-Marie. Cloud microorganisms and their potential implication in atmospheric chemistry. In THELIN, Marta - MAHEUX, Julienne. *Clouds: Classification, Microbiology and Environmental Effects* (Series: Physics Research and Technology: Environmental Health - Physical, Chemical and Biological Factors). Hauppauge, NY, USA: Nova Science Publishers, Inc., 2013. ISBN 978-1-62417-856-6. Chapter 1. p. 1-46. (ABC)

2.4. Publikačná činnosť (úplný zoznam je uvedený v Prílohe C)

Tabuľka 2c Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2013/ doplňky z r. 2012	B Počet v r. 2013/ doplňky z r. 2012	C Počet v r. 2013/ doplňky z r. 2012
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	0 / 0	0 / 0	0 / 0
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	0 / 0	0 / 0	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	0 / 0	0 / 0	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	0 / 0	0 / 0	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	0 / 0	0 / 0	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	2 / 1	0 / 0	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0	0 / 0	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0	0 / 0	0 / 0
9. Vedecké a odborné práce v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, Bddb)	51 / 0	0 / 0	0 / 0
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	10 / 4	0 / 0	0 / 0
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	14 / 1	0 / 0	0 / 0
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	0 / 0	0 / 0	0 / 0

12. Vydané periodiká evidované v Current Contents	0	0	0
13. Ostatné vydané periodiká	0	0	0
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	0/0	0/0	0/0
15. Vedecké práce uverejnené na internete (GHG)	5 / 0	0 / 0	0 / 0
16. Preklady vedeckých a odborných textov (EAJ)	0 / 0	0 / 0	0 / 0
17. Heslá v odborných terminologických slovníkoch a encyklopédiách vydaných * (BDA, BDB)	1 / 0	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora

B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV

C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

** - uvádzajú sa len heslá, pri ktorých je uvedený autor a ich rozsah je min. 1 autorský hárok*

Tabuľka 2d Ohlasy

OHLASY	A Počet v r. 2012/ doplňky z r. 2011	B Počet v r. 2012/ doplňky z r. 2011
Citácie vo WOS (1.1, 2.1)	1864 / 3	0 / 0
Citácie v SCOPUS (1.2, 2.2)	171 / 1	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	0 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	28 / 0	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV

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2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2e Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	78 / 0
Prednášky a vývesky na domácich vedeckých podujatiach	30 / 0

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BIELY, Peter - UHLIARIKOVÁ, Iveta - VRŠANSKÁ, Mária - CZISZÁROVÁ, Mária - PUCHART, Vladimír. Towards recognition of the structure, function and biotechnological potential of acetylxylen esterases. In *2nd Conference on Proteins: Our proteins 2013 - Structure and Function, April 16, 2013, Bratislava*. (vyžiadaná prednáška - Dr. Biely)

Abstract published: In *Programme and Abstracts: 2nd Conference on Proteins: Our proteins 2013 - Structure and Function, April 16, 2013, Bratislava*. Bratislava: Institute of Molecular Biology SAS, 2013, p. 11. (AFFA)

FILIP, Jaroslav - TKÁČ, Ján. Fructose dehydrogenase and bilirubin oxidase for enzymatic bioelectrodes fabrication. In *9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association, October 13-16, 2013, Piešťany, Slovakia*. (vyžiadaná prednáška - Dr. Filip)

Abstract published: In HOU, Ching T. - ČERTÍK, Milan (eds.). *Proceedings of 9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association, October 13-16, 2013, Piešťany, Slovakia*. Bratislava: Faculty of Chemical and Food Technology, Slovak University of Technology, 2013, p. 63. ISBN 978-80-970896-6-5. (AFFA)

HRICOVÍNI, Miloš. Molecular modelling of sulphated saccharides: Influence of counter-ions upon 3D structure and NMR data. In *17th European Carbohydrate Symposium (Eurocarb17), July 7-11, 2013, Tel-Aviv, Israel*.

Abstract published: In *Program & Abstracts: 17th European Carbohydrate Symposium (EuroCarb17), July 7-11, 2013, Tel-Aviv, Israel*. Tel-Aviv: Technion, The Israel Chemical Society, 2013. p. 38. (AFE)

KATRLÍK, Jaroslav - GEMEINER, Peter - ŠEDIVÁ, Alena. Lectin microarray and surface plasmon resonance biochips for detection of glycosylation and glyco-biomarkers. In *European Biotechnology Congress 2013, May 16-18, 2013, Bratislava, Slovakia*. (vyžiadaná prednáška - Dr. Katrlík)

Abstract published: In *Abstracts: European Biotechnology Congress 2013, May 16-18, 2013, Bratislava, Slovakia*. In *Current Opinion in Biotechnology*, 2013, vol. 24, suppl. 1, p. S25. (7.860 - IF2012). ISSN 0958-1669. (AFFA)

MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Enzymatic acetylations of saccharides in water environment. In *9th International Symposium on Biocatalysis and Agricultural Biotechnology, October 13-16, 2013, Piešťany*. (vyžiadaná prednáška - Dr. Mastihuba)

Abstract published: In HOU, Ching T. - ČERTÍK, Milan (eds.). *Proceedings of 9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association, October 13-16, 2013, Piešťany, Slovakia*. Bratislava: Faculty of Chemical and Food Technology, Slovak University of Technology, 2013, p. 50. ISBN 978-80-970896-6-5. (AFFA)

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PAULOVÍČOVÁ, Ema. Basics of antifungal immunity. In *3rd Symposium on Primary Immunodeficiencies, April 24, 2013, Bratislava*.

SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - KATRLÍK, Jaroslav. Baeyer-Villiger biooxidation monitoring. In *9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association, October 13-16, 2013, Piešťany, Slovakia*. (vyžiadaná prednáška - Dr. Schenk Mayerová)

Abstract published: In HOU, Ching T. - ČERTÍK, Milan (eds.). *Proceedings of 9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association, October 13-16, 2013, Piešťany, Slovakia*. Bratislava: Faculty of Chemical and Food Technology, Slovak University of Technology, 2013, p. 61. ISBN 978-80-970896-6-5. (AFFA)

TKÁČ, Ján - BERTÓK, Tomáš. Ultrasensitive lectin biosensors applicable in glycomics and diagnostics. In *European Biotechnology Congress 2013, May 16-18, 2013, Bratislava, Slovakia*. (vyžiadaná prednáška - Dr. Tkáč)

Abstract published: In *Abstracts: European Biotechnology Congress 2013, May 16-18, 2013, Bratislava, Slovakia*. In *Current Opinion in Biotechnology*, 2013, vol. 24, suppl. 1, p. S21. (7.860 - IF2012). ISSN 0958-1669. (AFFA)

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Abstract published: In HOU, Ching T. - ČERTÍK, Milan (eds.). *Proceedings of 9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association, October 13-16, 2013, Piešťany, Slovakia*. Bratislava: Faculty of Chemical and Food Technology, Slovak University of Technology, 2013, p. 48. ISBN 978-80-970896-6-5. (AFFA)

TKÁČ, Ján - KLUKOVÁ, Ľudmila - BERTÓK, Tomáš. Possible application of ultrasensitive lectin biosensors in diagnostics. In *XIII. Workshop of physical chemists and electrochemists, May 29-30, 2013, Brno, Czech Republic*. (vyžiadaná prednáška - Dr. Tkáč)

Abstract published: In *Sborník příspěvků: XIII. Pracovní setkání fyzikálních chemiků a elektrochemiků (13th Workshop of Physical Chemists and Electrochemists), 29-30. 5. 2013, Brno, Česká republika*. Brno: Mendelova univerzita v Brně, 2013. ISBN 978-80-7375-757-1. p. S131-S132. (AFE)

UHLIARIKOVÁ, Iveta - VRŠANSKÁ, Mária - PUCHART, Vladimír - BIELY, Peter. New sight on catalytic properties of acetylxylen esterases. In *62nd Meeting of the Japanese Society of Applied Glycoscience, September 25-27, 2013, Kagoshima, Japan*. (vyžiadaná prednáška - Dr. Biely)

Abstract published: In *Proceedings: 62nd Meeting of the Japanese Society of Applied Glycoscience, September 25-27, 2013, Kagoshima, Japan*. In *Bulletin of Applied Glycoscience*, 2013, vol. 3, p. 53 (S3-5). ISSN 2185-6427. (AFE)

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

TKÁČ, Ján. Cukry – palivo pre biobatérie i markery chorôb. In *SCHS - Chemické horizonty, Bratislava, 20. 3. 2013*.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

BIELY, Peter. Xylanolytic enzymes: Properties and applications. In *Seminar at the Department of Chemical Engineering, Shinshu University, Nagano, Japan, September 5, 2013*.

BIELY, Peter. Diversity of endo- β -1,4-xylanases. In *Seminar at the Chemical Engineering, Shinshu University, Nagano, Japan, October 16, 2013*.

BIELY, Peter. Microbial carbohydrate esterases in plant cell wall degradation. In *Seminar at the Department of Chemical Engineering, Shinshu University, Nagano, Japan, November 18, 2013*.

BIELY, Peter. Accessory xylanolytic enzymes. In *Seminar at the Department of Chemical Engineering, Shinshu University, Nagano, Japan, November 21, 2013*.

BIELY, Peter. Accessory xylanolytic enzymes: α -glucuronidase and acetylxylan esterases. *Seminar at the Graduate School of Agriculture and Life Sciences, University of Tokyo, Japan, November 22, 2013*.

BIELY, Peter. Current state of art of microbial xylanolytic enzymes. In *Seminar at Megazyme International, Wicklow, Ireland, June 7, 2013*.

HRICOVÍNI, Miloš. Structure of heparin saccharides. Molecular modelling and NMR experiment. In *Seminar at the Institute of Integrative Biology, University of Liverpool, Liverpool, UK, 11 March 2013*.

HRICOVÍNI, Miloš. Molecular modelling of glycosaminoglycans. In *Seminar at the Institute for Chemical and Biochemical Research G. Ronzoni, Milan, Italy, 17 December 2013*.

KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor. How to improve a predictive accuracy of a QSAR model for the design of inhibitors of sugar processing enzymes with transition metal ion co-factors. In *Cost Action CM1106 meeting: Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, Porto, Portugal, 21 February 2013*.

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2013

2.7.1. Vynálezy, na ktoré bol udelený patent

V zahraničí - počet patentov: 1

Číslo PV: US2013212740 (A1)

Mená autorov: Mucha Ján, Altmann Friedrich, Leiter Haralt, Glossl Josef, Staudacher Erika

Názov vynálezu: Fucosyl transferase gene

Majiteľ / spolumajiteľ: Institut für Chemie, Universität für Bodenkultur

Krajina: Rakúsko

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2013 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 2f Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Breierová Emília	VEGA	1
Gemeiner Peter	APVV	5
Hrabárová Eva	VEGA	1
Hricovíni Miloš	APVV/VV 2012	1
Hricovíniová Zuzana	VEGA	1
Hromádková Zdenka	VEGA	1
Lišková Desana	VEGA	1
Petruš Ladislav	APVV/VV 2012	3
Šimkovic Ivan	VEGA	1

2.9. Iné informácie k vedeckej činnosti

Z celkového počtu 65 (vlasti 70) vedeckých prác v časopisoch je 58 (84 %) publikovaných v periodikách evidovaných v Current Contents, pričom na 15 % z týchto prác sú autormi len pracovníci ústavu, 43 % je publikovaných v spolupráci s domácimi a 42 % so zahraničnými spoluautormi.

Impakt faktor periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.472 do 10.677, pričom jeho priemerná hodnota je 3.176, čo spolu s úhrnným počtom 2067 citácií (z toho 2039 vo WOS a SCOPUS) možno považovať za cenný kvalitatívny ukazovateľ.

V porovnaní s minulým rokom vzrástol počet nekarentovaných publikácií o 3 (11 versus 14), pričom počet karentovaných publikácií (51) poklesol o 8. Pokles do určitej miery spôsobila

nadmerná administratívna záťaž mnohých vedeckých pracovníkov v súvislosti s implementáciou 5 projektov OP ŠF a prípravou 2 ďalších, čo znížilo ich kapacitu na vedeckú prácu a publikačnú aktivitu. Na druhej strane, priemerný impakt faktor časopisov výrazne vzrástol (o 0.582) a jeho hodnota (3.176) značne presahuje hodnoty medián impakt faktora pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.038 pre Chemistry Organic, 2.817 pre Biochemistry & Molecular Biology, 1.332 pre Polymer Science, 2.404 pre Microbiology, 2.069 pre Biotechnology & Applied Microbiology a 2.115 pre Chemistry Physical), čo indikuje zvýšenú kvalitu publikovaných prác. Celkový počet citácií oproti vlašajšku vzrástol o 188 (2067 versus 1879). Počet citácií vo WOS a SCOPUS vzrástol o 199 (2039 versus 1840).

Na tomto mieste treba vysloviť uznanie Predsedníctvu SAV a pracovníckam Ústrednej knižnice SAV, že sa aj v roku 2013 podarilo prostredníctvom Centra vedecko-technických informácií SR zabezpečiť prístup do elektronických databáz Thomson ISI (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (SciVerse-ScienceDirect, Wiley Online Library, Blackwell Synergy, SpringerLink, Knovel, Reaxys a iné), čo značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Aj keď o užitočnosti časovo obmedzených prístupov do plnotextových databáz niektorých vydavateľstiev, sprostredkovaných Ústrednou knižnicou SAV niet pochyb, značným prínosom pre pracovníkov CHÚ SAV by bolo získanie prístupu do plných textov vybraných časopisov z databáz ACS Publications (American Chemical Society), RSC Publishing (Royal Chemical Society), Thieme Journals (Thieme Medical Publishers), BenthamDirect (Bentham Science Publishers) a Taylor & Francis Group.

Značný počet vyžiadaných recenzií monografií, vedeckých prác v zahraničných časopisoch a grantových projektov zo zahraničia, účasť na medzinárodných vedeckých podujatiach, pozvaných prednášok ako aj počet prijatých zahraničných vedeckých pracovníkov svedčí o vysokej medzinárodnej reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií resp. pozvaniami prednášok na zahraničných univerzitách a iných vedecko-výskumných inštitúciách a vedecko-odborných podujatiach.

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri získavaní grantov. Úhrne sa riešilo 62 projektov - z toho 39 domácich (VEGA - 20, APVV - 13, OP ŠF - 5, Centrá excelentnosti SAV - 1) a 23 zahraničných (6 projektov 7. RP, 7 projektov COST, 1 projekt ESF, 4 projekty v rámci medzivládnych dohôd o VTS, 4 bilaterálne projekty nadväzujúce na MAD a 1 medziústavný projekt, pričom čerpané finančné prostriedky predstavujú sumu cca 1253.9 tisíc €, z čoho je cca 505.7 tisíc € zo zahraničia, 748.2 tisíc € z domácich projektov a 32.0 tisíc € je podpora medzinárodnej spolupráce z národných zdrojov (MVTs a APVV) na projekty 7. RP EÚ a COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť prevádzku pracoviska.

V roku 2013 sa výrazne čerpali finančné prostriedky z projektov OP ŠF (cca 500 tis. €) a to najmä na nákup prístrojovej techniky.

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

Popri ostatných zohľadňovaných kritériách, dosiahnutá kvalita a kvantita vedeckých výstupov a iných aktivít značným spôsobom prispela k tomu, že Chemický ústav SAV bol doteraz pri všetkých pravidelných hodnoteniach vedeckých organizácií SAV (akreditácie) zaradený do najvyššej skupiny A - naposledy pri akreditácii v roku 2012.

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 2013

Forma	Počet k 31.12.2013				Počet ukončených doktorantúr v r. 2013					
	Doktorandi				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
Interná zo zdrojov SAV	4	19	1	5	1	5	0	2	0	0
Interná z iných zdrojov	3	1	2	1	0	0	0	0	0	0
Externá	0	0	0	0	0	1	0	0	0	0
Spolu	7	20	3	6	1	6	0	2	0	0
Súhrn	27		9		7		2		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	Interná z prostriedkov SAV	Interná z prostriedkov SAV	Interná z iných zdrojov	Interná z iných zdrojov	Externá	Externá
Do formy	Interná z iných zdrojov	Externá	Interná z prostriedkov SAV	Externá	Interná z prostriedkov SAV	Interná z iných zdrojov
Počet						

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2013 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
Ing. Jaroslav Filip	interné štúdium hrazené z prostriedkov SAV	9 / 2009	8 / 2013	5.2.25 biotechnológie	Ing. Ján Tkáč DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU

Mgr. Martina Garaiová	interné štúdium hradené z prostriedkov SAV	9 / 2009	10 / 2013	4.1.22 biochémia	RNDr. Ivan Hapala CSc., Ústav biochémie a genetiky živočíchov SAV	Prírodovedecká fakulta UK
Mgr. Lenka Kohútová	interné štúdium hradené z prostriedkov SAV	9 / 2007	8 / 2013	4.1.22 biochémia	RNDr. Jaroslav Klaudiny PhD., Chemický ústav SAV	Prírodovedecká fakulta UK
Ing. Jana Molnárová	interné štúdium hradené z prostriedkov SAV	9 / 2009	8 / 2013	5.2.25 biotechnológie	Ing. Renáta Vadkertiová PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Mgr. Katarína Poloncová	externé štúdium	10 / 2005	7 / 2013	4.1.22 biochémia	RNDr. Peter Griač CSc., Ústav biochémie a genetiky živočíchov SAV	Prírodovedecká fakulta UK
Ing. Andrea Schenk Mayerová	interné štúdium hradené z prostriedkov SAV	9 / 2009	8 / 2013	5.2.25 biotechnológie	Ing. Peter Gemeiner DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Mgr. Zuzana Šimová	interné štúdium hradené z prostriedkov SAV	9 / 2009	10 / 2013	4.1.22 biochémia	RNDr. Peter Griač CSc., Ústav biochémie a genetiky živočíchov SAV	Prírodovedecká fakulta UK

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných programov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

Názov študijného programu (ŠP)	Názov študijného odboru (ŠO)	Číslo ŠO	Univerzita/vysoká škola a fakulta
Organická chémia	organická chémia	4.1.16	Fakulta chemickej a potravinárskej technológie STU
Organická chémia	organická chémia	4.1.16	Prírodovedecká fakulta UK
Fyzikálna chémia	fyzikálna chémia	4.1.18	Fakulta chemickej a potravinárskej technológie STU
Fyzikálna chémia	fyzikálna chémia	4.1.18	Prírodovedecká fakulta UK
Makromolekulová chémia	makromolekulová chémia	4.1.19	Fakulta chemickej a potravinárskej technológie STU
Biochémia	biochémia	4.1.22	Fakulta chemickej a potravinárskej technológie STU
Biochémia	biochémia	4.1.22	Prírodovedecká fakulta UK
Mikrobiológia	mikrobiológia	4.2.7	Prírodovedecká fakulta UK
Biotechnológia	biotechnológie	5.2.25	Fakulta chemickej a potravinárskej technológie STU
Biotechnológia	biotechnológie	5.2.25	Prírodovedecká fakulta UK

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Peter Biely, DrSc. (biochémia)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Jaroslav Filip, PhD. (IIb)
doc. Ing. Vladimír Farkaš, DrSc. (mikrobiológia)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta UK)	Mgr. Lenka Kohútová, PhD. (IIb)
Ing. Peter Gemeiner, DrSc. (biotechnológia)	doc. Ing. Ladislav Petruš, DrSc. (Prírodovedecká fakulta UK)	Mgr. Stanislav Kozmon, PhD. (IIa)
Ing. Ján Hirsch, DrSc. (organická chémia)		RNDr. Mária Matulová, DrSc. (I)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		Ing. Jana Molnárová, PhD. (IIb)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		Ing. Andrea Schenk Mayerová, PhD. (IIb)

Ing. Vladimír Mastihuba, PhD. (chémia a technológia poživatín)		Ing. Sergej Šesták, PhD. (IIa)
Ing. Ema Paulovičová, CSc. (mikrobiológia)		Ing. Jaroslav Filip, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		Mgr. Lenka Kohútová, PhD. (PhD., Prírodovedecká fakulta UK)
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		RNDr. Mária Matulová, DrSc. (DrSc., Slovenská Akadémia Vied)
RNDr. Mária Vršanská, PhD. (biochémia)		Ing. Jana Molnárová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
		Ing. Andrea Schenk Mayerová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
		RNDr. Alena Šedivá (RNDr., Univerzita Pavla Jozefa Šafárika v Košiciach)

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2013

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	0	7	0
Celkový počet hodín v r. 2013	75	0	264	0

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

Tabuľka 3g Aktivita pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	10
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	12
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	19
4.	Počet školených doktorandov (aj pre iné inštitúcie)	30
5.	Počet oponovaných dizertačných a habilitačných prác	8
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	5
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	2
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	7
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	0

3.6. Iné dôležité informácie k pedagogickej činnosti

Chemický ústav SAV má akreditovaných 6 študijných odborov doktorandského štúdia: na Prírodovedeckej fakulte UK v Bratislave (4.1.16 organická chémia, 4.1.18 fyzikálna chémia, 4.1.22 biochémia, 4.2.7 mikrobiológia) a na Fakulte chemickej a potravinárskej technológie STU v Bratislave (4.1.16 organická chémia, 4.1.18 fyzikálna chémia, 4.1.19 makromolekulová chémia, 4.1.22 biochémia, 5.2.25 biotechnológia).

V priebehu roka 2013 sa na CHÚ SAV celkom školilo 34 doktorandov denného štúdia (z toho 9 novoprijatých), z ktorých 7 úspešne ukončilo štúdium obhajobou. Dúfame, že tento trend bude v budúcnosti pokračovať a počty doktorandov na ústave budú stabilizované a obsadia sa všetky pridelené doktorandské miesta. Najväčší záujem zo strany študentov bol o odbor biotechnológie a biochémia. Dlhodobý menší záujem zo strany študentov je o ostatné odbory (fyzikálna chémia, mikrobiológia, makromolekulová chémia a organická chémia), napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov a týchto si prioritne podržia na doktorandské štúdium jednotlivé fakulty.

V roku 2013 úspešne obhájilo doktorandskú dizertačnú prácu 7 doktorandov. Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2013, sa dá predpokladať, že v roku 2014 by mali doktorandskú dizertačnú prácu obhajovať 6 doktorandi.

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

Doktorandi a mladí vedeckí pracovníci sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Oceniť treba najmä ich aktivity počas Dňa otvorených dverí na ústave, ktorý sa pravidelne koná každý rok v novembri. Viacerí sa aktívne zapájajú aj do pedagogickej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách (J. Filip - vedenie stredoškolskej praxe; T. Bertók - školiteľ v programe „Veda pre mladých“ v odbore „Chémia“ pre študentov stredných škôl; konzultant študentky M. Petríkovej, ktorá pracuje na študentskom projekte "Príprava diagnostických povrchov pre lektínové biorozpoznávanie").

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2013 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

30th International Specialized Symposium on Yeast (30th ISSY) "Cell Surface and Organelles in Yeasts: from Basics to Applications", Stará Lesná, June 18-22, 2013.

(30. Medzinárodné špecializované sympóziu o kvasinkách (30th ISSY), Stará Lesná, 18.-22. jún 2013)

Sympóziu spoluorganizovali: International Commission on Yeasts (ICY), BIOECOGEN, Komisia pre kvasinky Československej mikrobiologickej spoločnosti, Ústav biochémie a genetiky živočíchov SAV, Chemický ústav SAV, Ústav molekulárnej biológie SAV, Fakulta chemickej a potravinárskej technológie STU, Prírodovedecká fakulta UK v Bratislave, a NATURA o.z.

Vedecký program konferencie bol rozdelený do piatich sekcií: 1. Dynamics of Membrane Organelles in Yeast; 2. Yeast in Biotechnology; 3. Membrane Lipid Homeostasis; 4. Cell Wall Dynamics; 5. Biomedical Aspects. Na začiatku konferencie odznela EMBO Lecture prof. Dr. T. Langer (Nemecko) „Mitochondrial membrane scaffolds and phospholipid trafficking“. Celkovo odznelo 47 prednášok a prezentovaných bolo 45 plagátových vývesiek.

Počet účastníkov: 140, z toho 99 zahraničných.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2014 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

41st Annual Conference on Yeasts/41. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 90 účastníkov, 20.05.-23.05.2014, (Emília Breierová, 02/ 59410241, 02/ 59410262, chememi@savba.sk)

13th Bratislava Symposium on Saccharides/13. Bratislavské sympóziu o sacharidoch, Kongresové centrum, Smolenice, 22.06.-26.06.2014, (Ján Gajdoš, 02/ 59410234, gajdos@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	6	2	0

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Peter Biely, DrSc.

Československá spoločnosť mikrobiologická (funkcia: člen výboru Komisie pre kvasinky)
International Academy of Wood Science (funkcia: volený člen (Fellow of IAWS))
International Commission for Yeasts of the International Union of Microbiological Societies (IUMS) (funkcia: člen)

Ing. Emília Breierová, PhD.

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

Ing. Peter Gemeiner, DrSc.

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)
Management Committee CMST COST Action CM1101 (funkcia: národný zástupca)

Ing. Ján Hirsch, DrSc.

American Chemical Society (funkcia: člen)
International Carbohydrate Organization (funkcia: reprezentant Slovenska)

Ing. Miloš Hricovíni, PhD.

American Chemical Society (funkcia: člen)
European Carbohydrate Organization (funkcia: reprezentant Slovenska)

Ing. Zdenka Hromádková, PhD.

Management Committee COST Action FP0901 (funkcia: národná zástupkyňa)
Management Committee FA COST Action TD1203 (funkcia: národná zástupkyňa)

RNDr. Daniela Kákoniová, PhD.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)

Ing. Jaroslav Katrlík, PhD.

International Glycoconjugate Organisation (funkcia: národný reprezentant)
Management Committee CMST COST Action CM1101 (funkcia: národný zástupca)

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Miroslav Koóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

RNDr. Desana Lišková, PhD.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)

International Association of Plant Tissue Cultures - Biotechnology (IAPTC-B) (funkcia: člen)

Management Committee COST FA0905 - Mineral Improved Crop Production for Healthy Food and Feed (funkcia: národná zástupkyňa)

prof. RNDr. Alexander Lux, CSc.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)

Management Committee COST FA0905 - Mineral Improved Crop Production for Healthy Food and Feed (funkcia: národný zástupca)

Ing. Vladimír Mastihuba, PhD.

Management Committee FPS COST Action FP1306 (funkcia: národný zástupca)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)

RNDr. Mária Matulová, DrSc.

American Chemical Society (funkcia: člen)

RNDr. Ján Mucha, CSc.

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

Ing. Jozef Nahálka, PhD.

Management Committee CMST COST Action CM1303 (funkcia: národný zástupca)

Ing. Vladimír Pätoprstý, PhD.

American Society for Mass Spectrometry (funkcia: člen)

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

International Society for Mass Spectrometry (funkcia: reprezentant Slovenska)

doc. Ing. Ladislav Petruš, DrSc.

COST Chemistry and Molecular Sciences and Technologies (CMST) Domain Committee (funkcia: reprezentant Slovenska)

Česká společnost chemická (funkcia: čestný člen)

Ing. Igor Tvaroška, DrSc.

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

Management Committee CMST COST Action CM1102 (funkcia: národný zástupca)

Management Committee CMST COST Action CM1106 (funkcia: národný zástupca)

Ing. Renáta Vadkertiová, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)

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
Katrlík Jaroslav	FP7-PEOPLE-2013-IEF-IIF-IOF – MAT ENG	21
Petruš Ladislav	COST CMST a TD	25

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

V rámci MVTS (COST Action FA 0905) sa naviazala spolupráca s Université de Lorraine, Nancy, Francúzsko (Dr. Tibault Sterckeman). V rámci francúzskeho projektu (Réponse du système racinaire et fonctionnement de *Nocca caerulescens* en présence de HAP: conséquences pour la phytoextraction en milieux multicontaminés. Odpoveď koreňového systému a fyziológia *Nocca caerulescens* v prítomnosti polyaromatických uhlíkovodíkov - význam pre phytoextrakciu v multikontaminovanom prostredí.), Mgr. Ivan Zelko, PhD. vycestoval na 1 ročnú stáž na Université de Lorraine, Francúzsko.

V rámci MVTS (COST CM1101) je nadviazaná spolupráca (J. Katrlík) s Dr. Georgijom Yordanovom, Chemická fakulta, Sofijská univerzita, Bulharsko v oblasti skúmania interakcií medzi plazmovými proteínmi a koloidnými polymérnymi nosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR).

Nadviazaná je spolupráca (P. Gemeiner, J. Katrlík) s Prof. Salvatorom Desantisom, Faculty of Veterinary Medicine University of Bari “Aldo Moro”, Taliansko v oblasti aplikácie lektínových microarray pre sledovania špecifickej exprese glykokonjugátov ako markerov funkčného stavu systému na celých živočíšnych bunkách (folikuly, vajíčka).

Nadviazaná je spolupráca (J. Katrlík) s Prof. Olgicou Nedič, Institute for the Application of Nuclear Energy (INEP), University of Belgrade, Belgrade, Srbsko, v rámci ktorej (bilaterálny APVV projekt) sa uskutočnili mobility našich pracovníkov do Srbska a pracovníkov partnerskej univerzity na CHÚ SAV. Témou sú lektínové microarray biočipy pre charakterizáciu glykánových štruktúr proteínov IGF systému ako nástroj pre výskum, diagnostiku a terapiu kolorektálneho karcinómu.

V rámci MVTS (COST Action TD1203) sa naviazala spolupráca s Dr. M Aguedom, z University of Liege, Gembloux Agro-Bio Tech, Department of Industrial Biological Chemistry v Belgicku. Spolupráca je zameraná na využitie mikrovlnnej extrakcie pri izolácii polysacharidov. V septembri toto roka bola vyslaná na toto vedecko-výskumné pracovisko Ing. Z. Košťálová, PhD. na krátkodobý (12 dní) STSMs pobyt, počas ktorého testovala vhodné podmienky na izoláciu pektínu z odpadov tekvice olejnej s využitím mikrovlnného žiarenia.

Okrem participácie na spoločných vedeckých projektoch umožňuje MVTS pracovníkom ústavu najmä dofinancovanie projektov 7. RP a iných projektov EÚ, využitie špičkovej prístrojovej techniky (analytickej, výpočtovej) v zahraničí ako aj prístup k potrebným doma chýbajúcim interdisciplinárnym metodikám, nedostupnej literatúre (knihy, patenty) a materiálnemu vybaveniu

(chemikálie, laboratórne zariadenia a pomôcky, ...). V rámci uskutočnenej mobility získali pracovníci ústavu veľmi cenné experimentálne skúsenosti a teoretické poznatky z najmodernejších metodík využívaných v súčasnosti pri riešení vedeckých problémov.

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

V rámci projektu ESF EuroGlycoForum RNP 07-RNP-015 sa Chemický ústav SAV podieľal na vedeckých aktivitách výskumných tímov, ktoré študujú biologickú dôležitosť sacharidov vo vzťahu štruktúra a ich funkcia a ich aplikácii v biotechnológiách a medicíne. Významnou náplňou projektu je organizovanie účasti našich vedcov na kurzoch a pracovných stretnutiach vo všetkých aspektoch glykovied, využívanie databáz vytvorených a sprístupnených pre členov konzorcia a poskytovanie expertíz v relevantných oblastiach glyko-výskumu a vytváranie a udržiavanie vedeckých kontaktov.

V rámci MVTs (COST Action) existuje spolupráca s pracoviskom BioLabs, Scuols Superiore Sant'Anna, Pisa, Italia, v rámci talianskeho projektu „Valutazione e selezione di specie arboree a rapido accrescimento per la fitodepurazione di aree inquinate da metalli: coinvolgimento di geni espressi a livello radicale nella tolleranza allo zinco (Zn) - Trees responses to heavy metal pollution: a special focus on root“, ktorý vedie Prof. Luca Sebastiani. Z uvedenej spolupráce vyplynula návšteva talianskych partnerov na našich pracoviskách a návšteva našich pracovníkov v Pize.

V rámci MVTs (COST Action FA0905) vznikla spolupráca s pracoviskom Institut National Polytechnique de Lorraine, Nancy, France (Dr. Tibault Sterckeman) a ISTO, UMR 7327 – CNRS-Université d'Orléans-BRGM (Prof. Mikael Motelica-Heino). V tejto súvislosti sa rieši aj bilaterálny projekt APVV SK-FR-0020-11 „Vplyv znečistenia pôdy na štruktúru a funkciu koreňa rastlín“ (Effect of soil contaminants on root structure and function).

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. Vedná politika

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria obsah domácich i zahraničných projektov riešených na pracovisku. Pozornosť sa venuje aj cielenému výskumu realizovanému prostredníctvom hospodárskych zmlúv, kontraktov a plnením dohodnutých záväzkov v rámci zmluvnej spolupráce. Značná časť riešiteľskej kapacity ústavu sa venuje vypracováaniu projektov a grantových žiadostí a to nielen v rámci domácej VEGA, APVV, Centier excelentnosti a spolupráce s priemyselnou sférou ale aj v rámci MVTS a to najmä 7. rámcového programu EÚ a vedeckých programov COST, NATO, ESF, bilaterálnych MAD, Európskeho sociálneho fondu a iných fondov a nadácií na podporu vedeckého výskumu. V rokoch 2008–2013 pribudla ešte významná účasť na nových výzvach OP ŠF OPVaV 2.1. a 4.1.

Organizačné členenie pracoviska na osem vedeckých oddelení, ktoré spolu tvoria Centrum glykomiky a tri spoločné-nevedecké oddelenia, reflektuje hlavné smery výskumu a požiadavky na jeho zabezpečenie. V rámci organizačnej štruktúry sa uplatňuje dvojstupňové riadenie: vedenie ústavu – vedúci vedeckých a spoločných-nevedeckých oddelení.

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

Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí okolo 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na cca 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedecí pracovníci spravidla vysielaajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v súčasnosti má ústav 5 držiteľov tohoto štipendia). Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov v rámci CHÚ SAV. V snahe získať mladých adeptov vedy sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie diplomových prác, preddiplomová prax) a propagujú výsledky vedeckej činnosti (médiá, konferencie, semináre, letné školy, dni otvorených dverí).

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Jesseniova lekárska fakulta UK v Martine

Druh spolupráce (spoločné pracovisko alebo iné): Spolupráca na riešení spoločných projektov - Ústav farmakológie

Začiatok spolupráce: 2008

Zameranie: Štúdium antitusických a bronchodilatačných účinkov prírodných polysacharidov a glykokonjugátov izolovaných z poľnohospodárskych odpadov, liečivých rastlín a invazívnych rastlín, resp. produkovaných sladkovodnými riasami alebo cyanobaktériami.

Zhodnotenie: Výsledkom spolupráce sú 2 publikácie a 1 poster.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Imunologický ústav

Začiatok spolupráce: 2009

Zameranie: Serodiagnostika markerov zápalu vo vzťahu ku koronárnym a intersticiálnym ochoreniam.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia, 2 prednášky a 2 postre.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Oddelenie laboratórnej medicíny, Detská fakultná nemocnica s poliklinikou, Bratislava

Začiatok spolupráce: 2010

Zameranie: Diagnostika zriedkavých vrodených metabolických porúch.

Zhodnotenie: Výsledkom spolupráce sú 3 prednášky a 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Univerzitná nemocnica, Bratislava, Nemocnica Staré Mesto, Oddelenie klinickej imunológie a alergológie

Začiatok spolupráce: 2007

Zameranie: Diferenciálna diagnostika vaginálnych kandidóz u atopických pacientov.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoluúčasť na riešení projektov VEGA a APVV - Ústav patologickej anatómie

Začiatok spolupráce: 2010

Zameranie: Testovanie lektínov v analýze biomedicínskych vzoriek a tkanivových kultúr.

Zhodnotenie: Príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra biochémie

Začiatok spolupráce: 2006

Zameranie: Syntéza mykobakteriálnych transglykozylázových substrátov a inhibítorov.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra mikrobiológie a virológie.

Začiatok spolupráce: 2007

Zameranie: Úloha CR3-RP v adherencii kvasinky *Candida albicans* a jej imunologické vlastnosti.

Zhodnotenie: Výsledkom spolupráce je 1 poster.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov VEGA, APVV a COST - Katedra fyziológie rastlín

Začiatok spolupráce: 2007

Zameranie: Využitie rastlín pre dekontamináciu životného prostredia od toxických kovov a obohatenie poľnohospodárskych rastlín o dôležité minerálne látky a štúdium biologickej aktivity galaktoglukomannanových oligosacharidov vo vývinových procesoch a ochrane rastlín.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia odoslaná a 1 príspevok na zahraničnej konferencii.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko

Začiatok spolupráce: 1995

Zameranie: Združené laboratórium Fourier Transform Infrared Spectroscopy

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

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

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

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoluúčasť na riešení projektov ŠF EÚ - Katedra organickej chémie

Začiatok spolupráce: 2008

Zameranie: Dobudovanie Laboratórií biokatalýzy a organickej syntézy.

Zhodnotenie: Vybavenie CHÚ prístrojovou technikou.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

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

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM

Druh spolupráce (spoločné pracovisko alebo iné): Podpísaná dohoda o spolupráci - Katedra chémie

Začiatok spolupráce: 2004

Zameranie: Riešenie vedecko-výskumných úloh, výchova absolventov a doktorandov a využívanie modernej prístrojovej techniky.

Zhodnotenie: Konzultácie a oponentúry Bc. a diplomových prác.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného VEGA projektu -

Katedra biotechnológií

Začiatok spolupráce: 2011

Zameranie: Výskum biologicky aktívnych/funkčných necelulózových polysacharidov izolovaných z rastlín a agro-industriálnych a lesných odpadov.

Zhodnotenie: Izolácia a charakterizácia polysacharidov.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biochémie, výživy a ochrany zdravia, Oddelenie výživy a hodnotenia potravín

Začiatok spolupráce: 2011

Zameranie: a) Analýza nutraceutík a polysacharidových zložiek cereálií.

Zhodnotenie: Riešenie spoločného APVV projektu.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biochémie, výživy a ochrany zdravia, Oddelenie výživy a hodnotenia potravín

Začiatok spolupráce: 2010

Zameranie: Biosenzory pre stanovenie sacharidov

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biotechnológie a potravinárstva, Oddelenie potravinárskej technológie

Začiatok spolupráce: 2006

Zameranie: a) Štúdium enzýmových transglykozylačných reakcií; b) Hydrofóbne iónové párovanie v purifikácii a modifikácii biokatalyzátorov

Zhodnotenie: Výsledkom spolupráce je vedenie 1 semestrálneho projektu, 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného APVV projektu - Ústav biotechnológie a potravinárstva, Oddelenie biochemickej technológie

Začiatok spolupráce: 2012

Zameranie: Vplyv stresu na pigmentotvorné kvasinky. Skúmanie prípravy nových typov obilnín a cerálnych produktov obohatených o polynenasýtené mastné kyseliny a pigmenty produkované kvasinkami.

Zhodnotenie: Výsledkom spolupráce sú 2 publikácie a 1 prednáška.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov VEGA a APVV - Ústav biotechnológie a potravinárstva, Oddelenie biochemickej technológie

Začiatok spolupráce: 2006

Zameranie: Techniky imobilizácie pre vývoj robustných oxido-redukčných biokatalyzátorov.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia v recenznom konaní.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko

Začiatok spolupráce: 1995

Zameranie: Združené laboratórium Fourier Transform Infrared Spectroscopy

Zhodnotenie: Združené laboratórium Fourier Transform Infrared Spectroscopy, založené v roku 1995, je spoločným pracoviskom Ústavu anorganickej chémie SAV, Chemického ústavu SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave.

Nový prístroj NICOLET 6700, zakúpený v roku 2008 (CHÚ SAV prispel sumou 16543 €), je inštalovaný v spoločnom laboratóriu FTIR spektroskopie v priestoroch CHÚ SAV a slúži pre potreby základného výskumu v rámci projektov uvedených inštitúcií, na pedagogické účely ako aj základné servisné merania. V roku 2010 bol spektrometer doplnený o ďalšie príslušenstvo pre meranie technikou difúznej reflektancie v kontrolovanej atmosfére v strednej IČ oblasti (z prostriedkov projektu MACHINA). Toto umožňuje meranie vzoriek do teploty 900 °C za normálneho tlaku a kontrolovanej atmosféry s možnosťou merania v inertnom plyne. Príslušenstvo sa využíva pri meraní pevných a práškových vzoriek anorganického aj organického charakteru. Spektrometer bol tiež doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť, ktoré umožňujú meranie IČ spektier v spektrálnom rozsahu 700–50 cm⁻¹. Chemický ústav SAV sa v roku 2013 podieľal na výstupoch združeného pracoviska 7 pôvodnými vedeckými prácami, 3 zborníkovými prácami a 4 príspevkami na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

Zhodnotenie: Dňa 11. mája 2007 bol podpísaný dokument "Zmluva a štatút o združení právnických osôb s názvom Národné centrum nukleárnej magnetickej rezonancie na Slovensku" (NC NMR). Zmluvu podpísali štatutári zakladajúcich organizácií: FCHPT, STU v Bratislave, FEI TU v Košiciach, PriF UK v Bratislave, UPJŠ v Košiciach, Chemický ústav SAV a Ústav merania SAV v Bratislave. Národné centrum NMR (NC NMR) bolo vytvorené za účelom zabezpečovania potrieb NMR služieb najmä v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami na Slovensku, zvyšovania vedomostného potenciálu v oblasti NMR na univerzitách, pracoviskách SAV a výskumných ústavoch formou výučby na všetkých stupňoch vysokoškolského štúdia, organizovania seminárov, kurzov, letných škôl a pod., mobilít a stáží domácich i zahraničných študentov a vedeckých pracovníkov, expertíznej a poradenskej činnosti, a prípravy odbornej literatúry. Sieť NC NMR tvoria spolupracujúce centrá NMR lokalizované v inštitúciách, ktoré uzavreli zmluvu o združení. Na Chemickom ústave SAV je lokalizované *Centrum pre štúdium dynamiky a interakcií biomolekúl*, ktoré bolo v roku 2009 vybavené dvomi špičkovými NMR spektrometrami (600 MHz a 400 MHz).

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)

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

Názov univerzity/vysokej školy a fakulty: Fakulta priemyselných technológií TnUAD v Púchove

Druh spolupráce (spoločné pracovisko alebo iné): Spoluúčasť na riešení projektu VEGA - Katedra chemických technológií a environmentu

Začiatok spolupráce: 2007

Zameranie: Príprava prírodných a cielene hydrofobizovaných polysacharidov s antioxidačnými a asociatívnymi vlastnosťami.

Zhodnotenie: Výsledkom spolupráce sú 2 nekarentované publikácie, 1 recenzovaná a 1 nerecenzovaná zborníková práca.

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

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko

Začiatok spolupráce: 2009

Zameranie: Kvalita surovín a potravín

Zhodnotenie: Dňa 2. septembra 2009 Chemický ústav SAV a Fakulta biotechnológie a potravinárstva SPU v Nitre podpísali dokument "Dohoda o vytvorení spoločného pracoviska metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu". Cieľom spoločného pracoviska, ktoré je umiestnené v priestoroch CHÚ SAV v Bratislave a Katedry biochémie a biotechnológie FBP SPU v Nitre, je zabezpečenie, príprava a realizácia domácich a zahraničných vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky. Ďalším cieľom je výchova odborných a vedeckých pracovníkov v rámci inžinierskeho a doktorandského štúdia a možnosti poskytovania študijných pobytov pre vedecko-výskumných a pedagogických pracovníkov. V roku 2011 spoločné pracovisko začalo implementovať projekt ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“, v rámci ktorého bolo v priebehu rokov 2012 a 2013 vybavené unikátnou prístrojovou technikou. V roku 2013 získal CHÚ SAV ďalší projekt ŠF EÚ „Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií“ vo výzve OPVaV-2013/1.1/02-SORO (2.88 mil. €), v rámci ktorého budú v roku 2014 pre centrum excelentnosti zakúpené ďalšie špičkové prístrojové prístroje a vybavenie.

Názov univerzity/vysokej školy a fakulty: Univerzita T. Bati, Zlín, Česká Republika

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta technologická, Ústav inženýrství ochrany životního prostředí

Začiatok spolupráce: 2008

Zameranie: Bakteriálna produkcia exopolysacharidov.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: Vysoká škola chemicko-technologická, Praha

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta potravinářské a biochemické technologie, Ústav chemie a technologie sacharidů

Začiatok spolupráce: 2011

Zameranie: Polysacharidy rias a húb a ich biologická aktivita.

Zhodnotenie: Výsledkom spolupráce je 1 odoslaná publikácia.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií

Začiatok spolupráce: 2010

Zameranie: Mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z potravinárskych výrob/metódy biotypizácie mikroorganizmov.

Zhodnotenie: Výsledkom spolupráce je 1 prednáška, 2 obhájené Bc. práce, 1 diplomová práca a konzultácie PhD. a diplomových prác.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií

Začiatok spolupráce: 2006

Zameranie: Vplyv stresu na pigmentotvorné kvasinky

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prednáška.

Názov univerzity/vysokej školy a fakulty: Masarykova univerzita Brno, ČR

Druh spolupráce (spoločné pracovisko alebo iné): Zmluvná spolupráca

Začiatok spolupráce: 2013

Zameranie: Program BiochemNet - odborné stáže študentov.

Zhodnotenie: V rámci Smlouvy o zajištění odborné stáže studentů, kterou CHÚ SAV a MU Brno uzavřeli na dobu 1.2.2013-30.6.2014 sa na CHÚ vystriedalo 8 študentov VUT Brno (dĺžka stáží 1-6 mesiacov). Stáže boli dotované sumou 23406,25 Eur.

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Vedeckovýskumná základňa SZU, Oddelenie mikrobiológie

Začiatok spolupráce: 2010

Zameranie: Štúdium imunobiologických vlastností polysacharidových konjugátov in vivo.

Zhodnotenie: Experimentálne vakcinácie polysacharidovými konjugátmi, odbery krvi a orgánov podľa schváleného protokolu.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra organické chemie

Začiatok spolupráce: 2010

Zameranie: Syntéza a cytotoxicita niektorých D-manózových klik-konjugátov.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácia.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta, Masarykova univerzita, Brno, Česká republika

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Národní centrum pro výzkum biomolekul

Začiatok spolupráce: 2011

Zameranie: Štúdium katalytického mechanizmu glykozyltransferáz.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prednáška.

Názov univerzity/vysokej školy a fakulty: Chalmers University of Technology, Göteborg, Sweden

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Chemical and Biological Engineering

Začiatok spolupráce: 1998

Zameranie: Stanovenie štruktúry sacharidových derivátov X-ray technikami.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Wroclaw University of Technology, Poland

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov - Division of Medicinal Chemistry and Microbiology, Chemistry Department

Začiatok spolupráce: 2010

Zameranie: Fenolické glykokonjugáty liečivých rastlín a ich biologická aktivita

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: The University of Burdwan, West Bengal, India

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Chemistry

Začiatok spolupráce: 2009

Zameranie: Polysacharidy a glykokonjugáty rias a liečivých rastlín.

Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: University of Adelaide, Glen Osmond, Australia

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - School of Agriculture, Food and Wine, Australian Centre for Plant Functional Genomics

Začiatok spolupráce: 1994

Zameranie: Štúdium bunkových stien rastlín.

Zhodnotenie: Výsledkom spolupráce je 1 postdoktorandský pobyt a 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Universität für Bodenkultur Wien, Institut für Chemie, Österreich

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca

Začiatok spolupráce: 2006

Zameranie: Klonovanie a expresia manozidáz modelového organizmu a štruktúrna analýza N-viazaných oligosacharidov.

Zhodnotenie: Aplikácia robustnej techniky v masspektrálnej analýze štruktúry glyko-peptidov /N-viazaných oligosaccharidov/ a definovaní glykoproteínu klinicky relevantného glyko-polypeptidu.

Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Université Blaise Pascal, UFR Sciences et Technologiques, Aubiere Cedex, Francúzsko

Druh spolupráce (spoločné pracovisko alebo iné): Bilaterálny SK-FR projekt - Laboratoire ICCF

Začiatok spolupráce: 2011

Zameranie: Štúdium metabolizmu baktérií izolovaných z oblakov.

Zhodnotenie: Výsledkom spolupráce je 1 kapitola v knihe a 3 prednášky.

Názov univerzity/vysokej školy a fakulty: Nancy Université, INRA, Vandoeuvre-les-Nancy Cedex, Francúzsko

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Laboratoire Sols et Environnement

Začiatok spolupráce: 2011

Zameranie: Vplyv znečistenia pôdy na štruktúru a funkciu koreňa rastlín.

Zhodnotenie: Výsledkom spolupráce je 1 prednáška.

Názov univerzity/vysokej školy a fakulty: Centrum výskumu živočíšnej výroby, Nitra

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav včelárstva, Liptovský Hrádok

Začiatok spolupráce: 2005

Zameranie: Štúdium exprese antimikrobiálneho peptidu defenzínu vo včelstvách

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta, Veterinární a farmaceutická univerzita Brno, Česká republika

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna

Začiatok spolupráce: 2013

Zameranie: a) Enzymové delenie racemátov; b) Chromatografické metódy delenia chirálnych binafytolov a ich analógov.

Zhodnotenie: Výsledkom spolupráce je 1 akceptovaná publikácia a vypracované protokoly pre stanovenie optickej čistoty vybraných binafytolov.

Názov univerzity/vysokej školy a fakulty: University of Oslo, School of Pharmacy, Department of Pharmacognosy, Norway

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca

Začiatok spolupráce: 2001

Zameranie: Štúdium imunomodulačnej aktivity rastlinných polysacharidov

Zhodnotenie: Výsledkom spolupráce sú 2 publikácie a 1 poster.

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

- Meranie vzoriek moču detských pacientov zo Slovenska v NMR laboratóriu CHÚ SAV s cieľom potvrdiť lekármi predpokladú diagnózu, poruchu guanidinometyl acetát transferázy, na základe identifikácie charakteristického signálu guanidinoacetátu v ¹H NMR spektrách - pre Detskú fakultnú nemocnicu s poliklinikou, II. Detskú kliniku - Diagnostické centrum dedičných metabolických porúch, Bratislava (príprava spoločnej publikácie).

- Štúdium expresie antimikrobiálneho peptidu defenzínu1 vo včelstvách v spolupráci s Centrom výskumu živočíšnej výroby, Nitra - Ústav včelárstva, Liptovský Hrádok (1 spoločná publikácia).

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

Názov pracoviska: Aplikovaný výskum v oblasti priemyselnej biokatalýzy

Partner(i): Axxence s.r.o., Bratislava

Zameranie: Cieľom spoločného pracoviska, ktoré sa nachádza v priestoroch „Axxence Park“ označených ako Hala 1, je poskytovanie komplexnej infraštruktúry pre efektívnejší aplikovaný výskum procesu izolácie prírodných aróm a ich finálnej purifikácie.

Rok založenia: 2013

Zhodnotenie: Riešenie spoločného projektu APVV úspešne pokračuje.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Aplikácia a charakterizácia xylanáz: Spôsob účinku G30 xylanáz (Application and characterization of xylanases: Mode of action of G30 xylanases)

Partner(i): Novozymes A/S, Bagsvaerd, Denmark

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2009

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2013

Objem získaných prostriedkov v bežnom roku (€): 15000

Stručný opis výstupu/výsledku: Porovnávali sa katalytické vlastnosti bakteriálnych a fungálnych endoxylanáz rodiny GH30. Študoval sa tiež mechanizmus rozpoznávania substrátu u bakteriálnych enzýmov.

Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje.

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Imobilizácia biokatalyzátorov pre priemyselnú produkciu prírodných aróm. Odberateľ: Axxence Slovakia s.r.o.

Poradenská činnosť v súvislosti s predanou licenciou na využívanie produkčného kmeňa a technológie na prípravu spórových inokúl huby *Trichoderma*, ktoré sú predmetom PP 5108-2008, v prevádzka Biozávod, Petrova Ves. Odberateľ: Azoter, spol. s r. o., Nové Zámky

LCMS analýza vzoriek. Odberateľ: Biotika a.s., Slovenská Ľupča; finančný prínos: 2000 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: COFELY a.s., Bratislava; finančný prínos: 123 €

Testovanie softvéru Mass Frontier 6.0 k interpretácii fragmentácie organických zlúčenín.
Testovanie softvéru TreeRobot na získavanie HR hmotnostných spektier. Odberateľ: HighChem Ltd., Bratislava

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: Národná vrtná spoločnosť s.r.o., Bernolákovo; finančný prínos: 1037 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: TAU-CHEM, s.r.o., Bratislava; finančný prínos: 480 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 380 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: XIMEA s.r.o., Marianka; finančný prínos: 353 €

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
Ing. Zdenka Hromádková, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen
doc. Ing. Ladislav Petruš, DrSc.	Junior Chamber International	Člen poroty na nomináciu ocenenia Študentská osobnosť Slovenska v kategórii Prírodné vedy, chémia

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

Názov expertízy: Národný štipendijný program pre výber zahraničných uchádzačov (2011-2013)

Adresát expertízy: SAIA, n.o.

Spracoval: Ing. Marek Bučko, PhD.

Stručný opis: člen Výberovej komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach

Adresát expertízy: Úrad pre verejné obstarávanie SR

Spracoval: Ing. Slavomír Bystrický, DrSc.

Stručný opis: Externý člen komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach

Adresát expertízy: Úrad pre verejné obstarávanie SR

Spracoval: Ing. Peter Gemeiner, DrSc.

Stručný opis: Externý člen komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach

Adresát expertízy: Úrad pre verejné obstarávanie SR

Spracoval: Ing. Miloš Hricovíni, PhD.

Stručný opis: Externý člen komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach

Adresát expertízy: Úrad pre verejné obstarávanie SR

Spracoval: RNDr. Mária Matulová, DrSc.

Stručný opis: Externý člen komisie

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

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

Meno pracovníka	Názov orgánu	Funkcia
Ing. Peter Gemeiner, DrSc.	Rada APVV pre prírodné vedy, pracovná skupina pre prírodné vedy 2 - chémia	člen
Ing. Miloš Hricovíni, PhD.	Rada Národného centra NMR	člen
doc. Ing. Ladislav Petruš, DrSc.	Rada APVV pre prírodné vedy, pracovná skupina pre prírodné vedy 2 - chémia	člen
Ing. Igor Tvaroška, DrSc.	Rada Národného centra NMR	člen

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Marek Baráth, PhD.		PB	Ako vzniká liek	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Tomáš Bertók		IN	Čo robím (vzdelávanie)	www.corobim.sk	2013
RNDr. Peter Biely, DrSc.		TL	13. Medzinárodný kongres o kvasinkách (13th ICY)	Bulletin Československé společnosti mikrobiologické. Roč. LIV, č. 1 (2013), s. 41-43. ISSN 0009-0646.	2013
RNDr. Peter Biely, DrSc.		TL	Motorové palivá z celulózy	Quark. Roč. XIX, č. 5 (2013), s. 34-35. ISSN 1335-4000.	2013
Ing. Pavol Farkaš, PhD.		PB	Sacharidy: Na zdravie	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Jaroslav Filip, PhD.		PB	Dobi sa cukrom	Centrum vedecko-technických informácií SR: Veda netradične	13.11.2013
Ing. András Hushegyi		PB	Cukor a vajce nie je len na pečenie	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Andrej Chyba		iné	Chémia všetkými zmyslami: Zrak, chuť, čuch a sluch	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Jaroslav Katrlík, PhD.		TL	Biosensing of prostate cancer	Pan European Networks: Science & Technology. Issue 07 (June 2013), p. 19	2013
Ing. Vladimír Mastihuba, PhD.		PB	Lieky z bylín? Pomôžu nám enzýmy!	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Vladimír Mastihuba, PhD.	M. Omastová	TL	Chemické horizonty – jarný cyklus 2013	ChemZi, Roč. 9, č. 1, p. 15.	2013
Ing. Kornélia Nemcová		PB	Úloha kvasiniek v procese výroby vína	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Zuzana Pakanová		PB	Hi-Tech analytické prístroje v lekárskej diagnostike	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013
Ing. Ema Paulovičová, CSc.	M. Tatarková	PB	M. Tatarková: Voľné radikály (seminárna práca)	Gymnázium, Pankúchova 6, Bratislava	8.2.2013

Ing. Ján Tkáč, DrSc.		PB	Cukry – palivo pre biobatérie i markery chorôb	SCHS - Chemické horizonty, Bratislava	20.3.2013
Ing. Ján Tkáč, DrSc.		PB	Cukry ako markery chorôb	Festival vedy - Noc výskumníkov 2013, AVION, Bratislava	27.9.2013
Ing. Ján Tkáč, DrSc.		PB	Cukry v našom tele. Ako sa dajú využiť?	Veda v CENTRE: Centrum vedecko-technických informácií SR, Bratislava	24.10.2013
Ing. Ján Tkáč, DrSc.		IN	J. Tkáč: Vedecký pracovník potrebuje nabrať skúsenosti najmä na špičkových pracoviskách	MŠVVaŠ SR, CVTI SR: Centrálny informačný portál pre výskum, vývoj a inovácie (CIP VVI). https://www.vedatechnika.sk/SK/enoviny/RozhovoryReportaze/	23.10.2013
Ing. Ján Tkáč, DrSc.		PB	Sweet biochips	Information event, Bratislava “ERC: European funds for excellent researchers”, Hotel Bôrik, Bratislava, 17. 6. 2013. http://erc.europa.eu/information-	17.6.2013
Ing. Ján Tkáč, DrSc.		TL	Sweet biochips in bioanalysis	Pan European Networks: Science & Technology. Issue 07 (June 2013), p. 18	2013
Ing. Ján Tkáč, DrSc.		IN	Sweet solutions for detecting disease	ERC and vimeo.com. http://erc.europa.eu/erc-stories/sweet-solutions-detecting-disease; http://vimeo.com/68520072; http://vimeo.com/68529132	2013
Mgr. Zuzana Vatehová		iné	Chémia všetkými zmyslami: Zrak, chuť, čuch a sluch	Týždeň vedy a techniky na Slovensku 2013. Deň otvorených dverí CHÚ SAV	12.11.2013

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	12	tlač	5	TV	1
rozhlas	0	internet	3	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	2				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
30th International Specialized Symposium on Yeast (30th ISSY) "Cell Surface and Organelles in Yeasts: from Basics to Applications"	medzinárodná	Stará Lesná	18.-22. jún 2013	140

9.3. Účasť na výstavách

Názov výstavy: **40. medzinárodná poľnohospodárska a potravinárska výstava AGROKOMPLEX 2013**

Miesto konania: Agrokomplex, Nitra

Dátum: 22.8.2013

Zhodnotenie účasti: Ústav prezentoval kolekciu vzácných sacharidov, ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta. V tejto súvislosti sa nadväzovali kontakty za účelom získania nových komerčných partnerov. Prezentovala sa tiež zbierka kvasiniek, farebné polysacharidy, chitooligosacharidy, biotechnologické využitie rastlinných kultúr in vitro pre zdravie človeka, vybrané publikácie pracovníkov ústavu a katalóg produktov.

Názov výstavy: **Festival vedy - 7. ročník, Noc výskumníkov 2013**

Miesto konania: Bratislava

Dátum: 27.9.2013

Zhodnotenie účasti: Chemický ústav SAV na výstave prezentovali doktorandi Mgr. Anikó Illéssová a Ing. Tomáš Bertók a mladí vedeckí pracovníci Ing. Andrea Schenk Mayerová, PhD. a Ing. Jaroslav Filip, PhD. Návštevníkov oboznámili nielen s témami, ktorými sa zaoberá Oddelenie glykobiotechnológie (biobatérie, glykokód, bioarómy) ale aj s tradičnými fermentáciami, či užitočnosťou geneticky modifikovaných baktérií. Pripravené boli aj popularizačné pokusy a odmeny za správne vyplnený vedomostný test zo získaných poznatkov.

Názov výstavy: **Týždeň vedy a techniky na Slovensku: výstava Veda netradične - interaktívne vedecké prezentácie**

Miesto konania: Bratislava

Dátum: 13.11.2013

Zhodnotenie účasti: Chemický ústav SAV na výstave zastupoval Ing. Jaroslav Filip, PhD. V prezentačnom stánku pod názvom „Dobi sa cukrom“ si návštevníci mohli naživo pozrieť a vyskúšať rôzne zaujímavé prístroje, experimenty a pokusy.

Názov výstavy: **15. ročník výstavy zdravotníctva SLOVMEDICA**

Miesto konania: Incheba, Bratislava

Dátum: 26.9.2013

Zhodnotenie účasti: Ústav prezentoval kolekciu vzácných sacharidov, ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta. V tejto súvislosti sa nadväzovali kontakty za účelom získania nových komerčných partnerov. Prezentovala sa tiež

zbierka kvasiniek, farebné polysacharidy, chitooligosacharidy, biotechnologické využitie rastlinných kultúr in vitro pre zdravie človeka, vybrané publikácie pracovníkov ústavu a katalóg produktov. Za exponát D-celobióza, disacharid, ktorý sa v Ralizačnom oddelení vyrába už niekoľko rokov, získal ústav ocenenie - Diplom „Zlatá INCHEBA“ - za vynájdenie biotechnologického spôsobu prípravy D-Celobiózy – východiskovej suroviny pre výrobu farmaceutického prípravku na znižovanie cholesterolu.

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	4	0	0

9.5. Členstvo v redakčných radách časopisov

RNDr. Marek Baráth, PhD.

Chemical Papers (funkcia: Assistant Editor)

RNDr. Peter Biely, DrSc.

Yeast Newsletter (funkcia: Associate Editor)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

Ing. Pavol Farkaš, PhD.

Chemical Papers (funkcia: Assistant Editor)

Ing. Peter Gemeiner, DrSc.

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

Biotechnology and Applied Biochemistry (funkcia: člen Editorial Board)

Biotechnology Letters (funkcia: člen Editorial Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Hirsch, DrSc.

Chemical Papers (funkcia: Editorial Manager)

Ing. Miloš Hricovíni, PhD.

Carbohydrate Research (funkcia: člen Editorial Board)

Open Glycoscience (funkcia: člen Editorial Advisory Board)

Ing. Zdenka Hromádková, PhD.

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Košíš, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Board)
Chemical Papers (funkcia: Assistant Editor)
Molecules (funkcia: člen Editorial Board)
Open Glycoscience (funkcia: člen Editorial Advisory Board)

prof. RNDr. Alexander Lux, CSc.

Environmental Experimental Botany (funkcia: člen Editorial Board)
Plant Growth Regulation (funkcia: člen Editorial Board)
Plant Root (funkcia: Managing Editor)

Ing. Jozef Nahálka, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

ARKIVOC (funkcia: člen Editorial Board of Referees)
Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Tkáč, DrSc.

Central European Journal of Chemistry (funkcia: Editor)
Chemical Papers (funkcia: Associate Editor)

Ing. Igor Tvaroška, DrSc.

Frontiers in Plant Biophysics and Modeling (funkcia: člen Editorial Advisory Board)
Chemical Papers (funkcia: člen Editorial Advisory Board)
International Journal of Carbohydrate Chemistry (funkcia: člen Editorial Board)
Open Glycoscience (funkcia: člen Editorial Advisory Board)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Peter Biely, DrSc.

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

doc. Ing. Vladimír Farkaš, DrSc.

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

RNDr. Ján Gajdoš, PhD.

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

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)

Ing. Ján Hirsch, DrSc.

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

Ing. Miloš Hricovíni, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť (funkcia: predseda odbornej skupiny)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť (funkcia: člen Predsedníctva)

Ing. Mária Mastihubová, PhD.

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

RNDr. Mária Matulová, DrSc.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

RNDr. Vlasta Sasinková

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť (funkcia: člen)

RNDr. Iveta Uhliariková

Slovenská chemická spoločnosť (funkcia: člen)

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

V rámci Týždňa vedy a techniky na Slovensku 2013, Chemický ústav SAV usporiadal Deň otvorených dverí CHÚ SAV (12.11.2013), počas ktorého viacerí pracovníci formou prednášok popularizovali svoju vedecko-výskumnú činnosť. Návštevníci mali tiež možnosť prezrieť si vybrané laboratóriá ústavu, zhliadnuť počítačovú prezentáciu vedecko-výskumnej práce a najvýznamnejších výsledkov jednotlivých oddelení CHÚ SAV a vo viacerých laboratóriách boli pripravené aj špeciálne popularizačné chemické pokusy a ukážky.

Pracovníci ústavu začali pracovať aj s talentovanými študentami stredných škôl. V tejto súvislosti bolo odprezentovaných viacero popularizačných prednášok na gymnáziách v Bratislave.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25797
z toho	knihy a zviazané periodiká	25497
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		4
z toho zahraničné periodiká		3
Ročný prírastok knižničných jednotiek		3
v tom	kúpou	3
	darom	0
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		3

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		45
z toho	odborná literatúra pre dospelých	4
	výpožičky periodík	18
	prezenčné výpožičky	23
MVS iným knižniciam		11
MVS z iných knižníc		2
MMVS iným knižniciam		0
MMVS z iných knižníc		4
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

10.3. Používatelia

Tabuľka 10c Užívatelia

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

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	2250

10.5. Iné informácie o knižničnej činnosti

Pracovníčky knižnice (2) zabezpečovali okrem iného rozmnožovacie práce na xeroxe a do systému ARL vkladali publikačné výstupy a citačné ohlasy pracoviska.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

Ing. Miroslav Koóš, DrSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

doc. Ing. Ladislav Petruš, DrSc.

- člen Predsedníctva SAV

- člen Vedeckej rady SAV

11.3. Členstvo vo vedeckých kolégiách SAV

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (člen)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Koóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

doc. Ing. Vladimír Farkaš, DrSc.

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Kooš, DrSc.

- Knižničná rada SAV (člen)
- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)
- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)
- Rada programu centier excelentnosti SAV (člen)

Ing. Peter Magdolen

- Dislokačná komisia SAV (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Dislokačná komisia SAV (člen)
- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)
- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (predseda)
- Komisia SAV pre zahraničné styky (člen)
- Komisia SAV pre životné prostredie (podpredseda)
- Komisia SAV pre životné prostredie (predseda)
- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)

Ing. Renáta Vadkertiová, PhD.

- Komisia SAV pre životné prostredie (člen)

11.5. Členstvo v orgánoch VEGA

Ing. Ján Hirsch, DrSc.

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

Ing. Jozef Nahálka, PhD.

- Komisia VEGA č. 8 pre pôdohospodárske, veterinárske a drevárske vedy (člen)

Ing. Ján Tkáč, DrSc.

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

Ing. Igor Tvaroška, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2013 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho:
					ŠF EÚ
Výdavky spolu	3627387	2216875	180779	1229733	698479
Bežné výdavky	2818481	2163437	156098	498946	61832
v tom:					
mzdy (610)	1300440	1147892	27777	124771	178802
poistné a príspevok do poist'ovní (620)	463626	396022	14449	53155	6351
tovary a služby (630)	779873	454128	107231	218514	15245
z toho: časopisy	42131	21479	14091	0	0
VEGA projekty	179539	179539	0	0	0
MVTS projekty	105895	105895	0	0	0
CE	2228	2228	0	0	0
vedecká výchova	8760	8760	0	0	0
bežné transfery (640)	274542	165395	6641	102506	22434
z toho: štipendiá	165395	165395	0	0	0
transfery partnerom projektov	102506	0	0	102506	22434
Kapitálové výdavky	808906	53438	24681	730787	636647
v tom:					
obstarávanie kapitálových aktív	624006	53438	24681	545787	451747
kapitálové transfery	184900	0	0	184900	184900
z toho: transfery partnerom projektov	184900	0	0	184900	184900

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2013 spolu	v tom:	
		rozpočtové	z mimoroz p. zdrojov
Príjmy spolu	3406685	2518592	888093
Nedaňové príjmy	235855	0	235855
v tom:			
príjmy z prenájmu	5408	0	5408
príjmy z predaja výrobkov a služieb	219733	0	219733
iné	10714	0	10714
Granty a transfery (mimo zdroja 111)	1007392	301716	705676
v tom:			
tuzemské	301716	301716	0
z toho: APVV	190975	190975	0
iné	110741	110741	0
zahraníčné	652238	0	652238
z toho: projekty rámcového programu EÚ	0	0	0
iné	652238	0	652238

13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2013 žiadnu nadáciu ani fondy.

14. Iné významné činnosti organizácie SAV

Organickou súčasťou ústavu je Zbierka kultúr kvasiniek (Culture Collection of Yeasts), ktorá je členom Organizácie európskych zbierok (ECCO), Svetovej federácie zbierok mikroorganizmov (WFCC), je registrovaná vo Svetovom katalógu kultúr (CCY 333) a má štatút medzinárodného ukladacieho centra patentovo chránených kmeňov (je v nej uložených asi 3500 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 350 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2013: 58 (13 pre CHÚ, 6 pre iné pracoviská v SR a 39 pre zahraničie). Získané kultúry v roku 2013: 65 (59 samostatne izolovaných a 6 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 2038 € a úspora predstavovala 2340 € (390 € za kmene pre CHÚ a 1950 € za izolované a získané kmene).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers (Chemické Zvesti)* - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS) (IF2012 = 0.879). Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav. Od roku 2007 prešlo publikovanie tlačenej aj elektronickej verzie časopisu do kompetencie vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). Od roku 2012 vychádza ročne 12 čísiel (predtým 6 čísiel).

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment vzácných sacharidov. Tieto dodáva na zahraničný trh, niektoré ako jediný producent na svete. Ústav je v priamom styku s viacerými poprednými svetovými firmami a prostredníctvom obchodných partnerov má kontakty s najvýznamnejšími dodávateľmi čistých chemikálií. Celkové tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2013 sumu 131555 €, čo je približne o 53000 € menej ako vlani. Tento pokles možno pripísať jednak cca dvojmesačnému výpadku produkcie v dôsledku rekonštrukčných prác v budove RO (zatepľovanie, výmena okien) a jednak recesii spôsobenej celosvetovou finančnou a hospodárskou krízou.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletne analytické a štrukturálne charakterizácie produktov a študovaných látok iným pracoviskám. Príjmy zo služieb ústavom SAV, katedrám a ústavom vysokých škôl, rezortným a súkromným výskumným a výrobným organizáciám predstavovali 7639 €. Príjmy za rozborý vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely, predstavovali sumu cca 8799 €. V súčasnosti je snahou získať pre toto laboratórium príslušný certifikát kvality, čo by pripelo k zvýšeniu tržieb.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2013

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Biely Peter

Medaila pri príležitosti 60. výročia založenia SAV

Oceňovateľ: Predseda SAV

Farkaš Vladimír

Medaila SAV pri príležitosti 60. výročia založenia SAV

Oceňovateľ: Predseda SAV

Gemeiner Peter

Medaila pri príležitosti 60. výročia založenia SAV

Oceňovateľ: Predseda SAV

Opis: Cena udelená špičkovému tímu Chemického ústavu SAV pod vedením Ing. Petra Gemeinera, DrSc.

Lišková Desana

Čestná plaketa SAV za zásluhy v biologických vedách

Oceňovateľ: Predsedníctvo SAV

Tvaroška Igor

Medaila pri príležitosti 60. výročia založenia SAV

Oceňovateľ: Predseda SAV

Opis: Cena udelená špičkovému tímu Chemického ústavu SAV pod vedením Ing. Igora Tvarošku, DrSc.

15.1.2. Iné domáce ocenenia

Bertók Tomáš

Cena Ľudovíta Drobnicu - 3. miesto v súťaži o najlepšiu vedeckú prácu

Oceňovateľ: Fakulta chemickej a potravinárskej technológie STU

Opis: Drobnicov memoriál 7. ročník, Bojná, 16.-18. september 2013.

Bertók Tomáš

Ročný individuálny grant vo výške 3000,- €

Oceňovateľ: Nadácia INTENDA v rámci programu Podporujeme individuality

Magdolen Peter

Diplom Zlatá Incheba Za vynájdenie biotechnologického spôsobu prípravy D-celobiózy

Oceňovateľ: Generálny riaditeľ Incheba a.s. hodnotiaca komisia

Opis: Cenu získal Chemický ústav SAV na 15. výstave zdravotníctva SLOVMEDICA, 26.-28. september 2013, Bratislava; za pracovisko ju prevzal Ing. Peter Magdolen.

Petruš Ladislav

Čestné členstvo v Slovenskej chemickej spoločnosti pri SAV

Oceňovateľ: Slovenská chemická spoločnosť pri SAV

Schenkmayerová Andrea

Cena za najlepšiu prácu v oblasti biotechnológie

Oceňovateľ: Fakulta chemickej a potravinárskej technológie STU

Opis: Drobnicov memoriál 7. ročník, Bojná, 16.-18. september 2013.

Vatehová Zuzana

Cena za najlepši príspevok v sekcii Potravinárstvo, životné prostredie a biotechnológie

Oceňovateľ: Slovenská chemická spoločnosť pri SAV

Opis: Ocenenie získané na 65. Zjazde chemikov, Tatranské Matliare, 9.-13. september 2013.

15.2. Medzinárodné ocenenia

Schenkmayerová Andrea

Prof. Mariapia Viola Magni EBTNA AWARD of Best Oral Presentation

Oceňovateľ: European Biotechnology Thematic Network Association (EBTNA)

Opis: Amperometric Baeyer-Villiger monooxygenase biosensor, Ref. No. 176; European Biotechnology Congress 2013, Bratislava, 16-18 May 2013.

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

V tejto súvislosti bol Chemický ústav kontaktovaný jednou fyzickou osobou (Ing. Ladislav Bujko) s dotazom, či CHÚ SAV (všeobecne pracoviská SAV) vykonáva majetkové práva k autorskému dielu, ktoré vytvoril pracovník v rámci interného pracovného pomeru.

Informácie o pracovisku sú voľne dostupné na internete (www.chem.sk) ako aj z knižných brožúr vydaných za roky 1953-1993, 1993-1997 a 1998-2002. Pripravuje sa vydanie brožúry, ktorá bude obsahovať údaje o pracovisku až do roku 2013.

17. Problémy a podnety pre činnosť SAV

a) Pridelovanie finančných prostriedkov zo ŠR na schválené projekty

Opätovne apelujeme na včasné pridelenie schválených finančných prostriedkov zo ŠR na všetky druhy grantových projektov v kalendárnom roku (aj keď v tomto smere už došlo k zlepšeniu), aby oneskorené platby nekomplikovali organizáciu práce riešiacich kolektívov a plnenie harmonogramu etáp riešenia projektov a zároveň, aby mohla byť plnená požiadavka štátnej pokladnice na rovnomerné čerpanie štátnych finančných prostriedkov v priebehu roka.

Apelujeme na P SAV aby jednalo s MŠ SR o pridelení dostatočných finančných prostriedkov na pravidelné vyhlásenie všeobecnej výzvy APVV.

Oceňujeme rozhodnutie P SAV, že od roku 2012 navýšilo o 40 % finančné prostriedky na granty akademickej agentúry VEGA.

b) Iné problémy pracoviska

Napriek tomu, že sa výrazne zmodernizovala prístrojová technika v Analytickom oddelení, ktoré bolo vďaka finančným prostriedkom (cca 8 mil. €) z dvoch schválených projektov OP ŠF, v ktorých je ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiež došlo k podstatnému zlepšeniu situácie aj v prístrojovom vybavení jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participuje ako partner), nedostatok kapitálových finančných prostriedkov neumožnil v roku 2013 výraznejšiu obnovu prístrojového vybavenia v Realizačnom oddelení. Vzhľadom na morálne a fyzické opotrebovanie niektorých zariadení musel ústav vynakladať značné úsilie na ich prevádzku a zabezpečenie činnosti. V súvislosti s nevyhnutnou obnovou prístrojového a laboratórneho vybavenia sa podarilo zakúpiť (z vlastných zdrojov) dva moderné prístroje do Zbierky kvasiniek.

Vzhľadom k havarijnému stavu zdravotníckej (vodoinštalácia, odpady) v celej budove, je nevyhnutné pripraviť projekt a následne plán na jej postupnú komplexnú rekonštrukciu. V tomto smere bude potrebné vyčleniť čo najskôr prostriedky z rozpočtu SAV, inak môže byť ohrozená činnosť šiestich ústavov SAV sídliačich v budove.

Problémom sa stávajú pomerne časté náhodilé výpadky elektrického prúdu v areáli (nie je to chybou elektrických rozvodov v budove, pretože tie boli pred pár rokmi komplexne zrekonštruované), ktoré poškodzujú citlivú drahú prístrojovú techniku a to až do takej miery, že hrozí havária niektorých prístrojov a ich oprava bude stáť ústav značné finančné prostriedky. Apelujeme preto na P SAV a SÚZ SAV, aby tomuto problému venovali pozornosť v celoareálovom merítke, pretože ho nie je možné vyriešiť ako záležitosť budovy resp. jednotlivého ústavu (napr. inštalácia výkonnejšieho generátora prúdu vyžaduje stavebné povolenie).

b) Iné podnety

Upozorňujeme na niektoré nedostatky v Osnove Správy o činnosti organizácie SAV: a) nesprávna terminológia v Tabuľke 3e a Tabuľkách 12a a 12b pre PO SAV; b) nesúlad vykazovania niektorých údajov v osnove a v ELVYS (napr. členstvo v národných komitétach je podľa osnovy uvedené v podkapitole 4.2.1 ale v ELVYS je uvedené v podkapitole 9.6.; kód AFA, ktorý podľa normy prináleží kategórii „publikované pozvané príspevky na zahraničných vedeckých konferenciách“ je v Tabuľke 2e osnovy uvedený v položke 11a pre vedecké a odborné práce v recenzovaných resp. editovaných konferenčných i nekonferenčných zborníkoch); c) v záhlaví tabuľky 3e “Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium” treba slovo “spoločných” vynechať alebo nahradiť slovom “univerzitných”, pretože spoločné odborové komisie ukončili svoju činnosť už v roku 2010 a od roku 2011 existujú len odborové komisie pre doktorandské štúdium, ktoré sú zriaďované osobitne pre každú univerzitu, na ktorej bol príslušný odbor doktorandského štúdia akreditovaný.

Nakoľko sa pri pravidelnom hodnotení vedeckých organizácií SAV (akreditácia) v roku 2012 pre publikačné výstupy aplikovala evidencia vo WOS (nie CC), navrhujeme (kvôli zjednoteniu údajov z osnovy a akreditačného dotazníka), aby sa táto skutočnosť premietla aj do Osnovy Správy o činnosti organizácie SAV pre ďalšie obdobie, t.j. aby sa v správach uvádzali publikačné výstupy v časopisoch evidovaných vo WOS (delené na impaktované a neimpaktované) a nie v časopisoch evidovaných v Current Contents.

Vzhľadom na to, že systém pridelovania doktorandských miest (“kvóta”) na jednotlivé ústavy nie je vyhovujúci a mnohé pracoviská ho považujú za “nespravodlivý”, navrhujeme ho prehodnotiť a prispôbiť súčasným potrebám a vedeckým trendom.

Správu o činnosti organizácie SAV spracoval(i):

Ing. Miroslav Koóš, DrSc., 02/ 59410254, 02/ 59410200
Ing. Antónia Barlíkova, 02/ 59410202 (ekonomická časť)

Riaditeľ organizácie SAV:

.....
Ing. Miroslav Koóš, DrSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2013****Zoznam zamestnancov podľa štruktúry** (nadväzne na údaje v Tabuľke 1a)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Peter Biely, DrSc.	5	0.05
2.	Ing. Slavomír Bystrický, DrSc.	90	0.90
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	80	0.80
5.	Ing. Ján Hirsch, DrSc.	60	0.60
6.	Ing. Miroslav Kooš, DrSc.	100	1.00
7.	RNDr. Mária Matulová, DrSc.	100	1.00
8.	doc. Ing. Ladislav Petruš, DrSc.	100	1.00
9.	Ing. Ivan Šimkovic, DrSc.	100	1.00
10.	Ing. Ján Tkáč, DrSc.	100	1.00
11.	Ing. Igor Tvaroška, DrSc.	70	0.70
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
Samostatní vedeckí pracovníci			
1.	Ing. Emília Breierová, PhD.	100	1.00
2.	Ing. Marek Bučko, PhD.	100	1.00
3.	Mgr. Peter Capek, PhD.	100	1.00
4.	RNDr. Ján Gajdoš, PhD.	100	1.00
5.	Ing. Miloš Hricovíni, PhD.	100	1.00
6.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
7.	Ing. Zdenka Hromádková, PhD.	100	1.00
8.	Ing. Jaroslav Katrlík, PhD.	100	1.00
9.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
10.	RNDr. Karin Kollárová, PhD.	100	1.00
11.	Mgr. Juraj Kóňa, PhD.	100	1.00
12.	Mgr. Stanislav Kozmon, PhD.	5	0.05
13.	RNDr. Desana Lišková, PhD.	100	1.00
14.	prof. RNDr. Alexander Lux, CSc.	5	0.05

15.	RNDr. Eva Machová, PhD.	100	1.00
16.	RNDr. Anna Malovíková, PhD.	100	1.00
17.	Ing. Vladimír Mastihuba, PhD.	100	1.00
18.	Ing. Mária Mastihubová, PhD.	100	1.00
19.	Ing. Danica Mislovičová, PhD.	35	0.35
20.	RNDr. Ján Mucha, CSc.	100	1.00
21.	Ing. Jozef Nahálka, PhD.	100	1.00
22.	Ing. Ema Paulovičová, CSc.	100	1.00
23.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
24.	RNDr. Mária Petrušová, PhD.	83	0.83
25.	Ing. Monika Poláková, PhD.	100	1.00
26.	Mgr. Vladimír Puchart, PhD.	100	1.00
27.	Ing. Eva Stratilová, PhD.	100	1.00
28.	Mgr. Jana Šefčovičová, PhD.	100	1.00
29.	Ing. Sergej Šesták, PhD.	100	1.00
30.	Ing. Renáta Vadkertiová, PhD.	100	1.00
31.	Ing. Alica Vikartovská, PhD.	100	1.00
32.	RNDr. Mária Vršanská, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	0.33
2.	Ing. Maroš Bella, PhD.	100	1.00
3.	Ing. Alžbeta Čížová, PhD.	100	1.00
4.	RNDr. Lucia Demovičová, PhD.	100	0.58
5.	Mgr. Miroslava Ďuranová, PhD.	100	0.00
6.	Ing. Pavol Farkaš, PhD.	100	1.00
7.	Ing. Jaroslav Filip, PhD.	104	1.04
8.	Ing. Soňa Garajová, PhD.	100	0.00
9.	Mgr. Filip Holka, PhD.	50	0.50
10.	Ing. Eva Hrabárová, PhD.	100	1.00
11.	Mgr. Slavomíra Husárová, PhD.	100	0.00
12.	Mgr. Lenka Kohútová, PhD.	100	1.00
13.	Mgr. Jana Korcová, PhD.	100	0.33
14.	Ing. Zuzana Košťálová, PhD.	100	1.00
15.	RNDr. Ján Kozák, PhD.	100	1.00
16.	Mgr. Danica Kučerová, PhD.	100	0.33

17.	RNDr. Erika Lattová, PhD.	100	0.00
18.	Ing. Izabela Medovarská, PhD.	100	0.00
19.	Ing. Júlia Mičová, PhD.	100	0.00
20.	Ing. Jana Molnárová, PhD.	100	0.33
21.	Ing. Marek Nemčovič, PhD.	100	0.92
22.	Ing. Lucia Paulovičová, PhD.	100	1.00
23.	Ing. Božena Pribulová, PhD.	100	1.00
24.	Ing. Andrea Schenk Mayerová, PhD.	100	0.46
25.	Ing. Katarína Šuchová, PhD.	100	0.00
26.	Mgr. Ivan Zelko, PhD.	100	0.75
Odborní pracovníci s VŠ vzdelaním			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Ing. Antónia Barlíková	100	1.00
3.	Ing. Viera Bedrichová	100	1.00
4.	Ing. Tomáš Bertók	84	0.84
5.	RNDr. Mária Dzúrová	100	1.00
6.	Ing. Erika Farkašová	100	1.00
7.	Mgr. Anikó Illéssová	31	0.08
8.	Bc. Peter Kis	100	1.00
9.	Ing. Ľudmila Kluková	30	0.30
10.	Ing. Peter Magdolen	100	1.00
11.	Ing. Ema Podobová	100	1.00
12.	PhDr. Eva Riganová	100	1.00
13.	RNDr. Vlasta Sasinková	100	1.00
14.	Ing. Hana Smrtičová	100	1.00
15.	RNDr. Alena Šedivá	10	0.10
16.	Ing. Jozef Švec	100	1.00
17.	Ing. Jozef Tonka	100	1.00
18.	Ing. Jozef Turjan	100	1.00
19.	RNDr. Iveta Uhliariková	100	1.00
20.	Ing. Silvia Vlčková	100	1.00
Odborní pracovníci ÚSV			
1.	Mária Bednáríková	100	1.00
2.	Alena Bordáčová	100	1.00
3.	Mária Csiszárová	100	1.00

4.	Helena Čigašová	100	1.00
5.	Ľudmila Gažíková	100	1.00
6.	Jana Guthová	100	1.00
7.	Beáta Chvállová	100	1.00
8.	Nataša Izáková	100	1.00
9.	Mária Janáčiová	80	0.80
10.	Beáta Kalivodová	100	1.00
11.	Alžbeta Kanská	100	1.00
12.	Janka Komačková	100	1.00
13.	Ľudovít Kompaník	100	1.00
14.	Jana Köplingerová	100	1.00
15.	Eva Morháčová	100	1.00
16.	Milan Novosad	100	1.00
17.	Nadežda Orthová	100	1.00
18.	Margita Plšková	100	1.00
19.	Emília Rosová	100	1.00
20.	Kvetoslava Sabová	100	0.33
21.	Zdena Smolková	100	1.00
22.	Radoslava Šályová	100	1.00
23.	Alena Šoltésová	100	1.00
24.	Nadežda Šporánková	100	1.00
25.	Oľga Švančarová	100	1.00
26.	Vojtech Tóth	100	1.00
27.	Matej Vaš	100	1.00
28.	Erika Voleková	100	1.00
29.	Scarlett Weinzettlová	100	1.00
30.	Dana Žiškova	100	1.00
Ostatní pracovníci			
1.	Peter Cagán	80	0.80
2.	Milan Chochlík	73	0.73
3.	Helena Lešťanská	100	1.00
4.	Elena Masarovičová	100	1.00
5.	Eva Pazderová	100	1.00
6.	Miroslav Pír	100	1.00
7.	Ing. Viliam Podoba	100	0.75

8.	František Špetko	100	1.00
9.	Ivan Vavro	100	1.00
10.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vědeckí pracovníci			
1.	RNDr. Daniela Kákoniová, PhD.	30.4.2013	0.10
2.	RNDr. Bohumil Steiner, PhD.	18.7.2013	0.54
Vědeckí pracovníci			
1.	RNDr. Anna Kákošová, PhD.	31.8.2013	0.67
2.	Mgr. Ivana Nemčovičová, PhD.	31.7.2013	0.00
3.	Ing. Michal Raab, PhD.	31.7.2013	0.00
4.	doc. Ing. Vojtech Spiwok, PhD.	30.4.2013	0.03
Odborní pracovníci s VŠ vzděláním			
1.	Mgr. Zuzana Vatehová	31.8.2013	0.67

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Lucia Achbergerová	Přírodovědecká fakulta UK	4.1.22 biochemia
2.	Ing. Tomáš Bertók	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
3.	Ing. Zuzana Firáková	Fakulta chemické a potravinářské technologie STU	4.1.22 biochemia
4.	Mgr. Anna Fleischhackerová	Přírodovědecká fakulta UK	4.1.22 biochemia
5.	Mgr. Lucia Fraňová	Fakulta chemické a potravinářské technologie STU	4.1.22 biochemia
6.	Ing. Andrej Chyba	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
7.	Mgr. Anikó Illéssová	Přírodovědecká fakulta UK	5.2.25 biotechnologie
8.	Ing. Ľudmila Kluková	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
9.	Ing. Michaela Koprďová	Fakulta chemické a potravinářské technologie STU	4.1.19 makromolekulová chemia
10.	Ing. Kristína Kováčová	Fakulta chemické a potravinářské technologie STU	4.1.22 biochemia

11.	Mgr. Júlia Mišíková	Prírodovedecká fakulta UK	4.1.22 biochémia
12.	Ing. Kornélia Nemcová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
13.	Mgr. Zuzana Neščáková	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
14.	Ing. Zuzana Pakanová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
15.	Mgr. Marek Pápay	Prírodovedecká fakulta UK	4.1.22 biochémia
16.	Mgr. Ružena Pilišiová	Prírodovedecká fakulta UK	4.1.22 biochémia
17.	Mgr. Elena Potocká	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
18.	Ing. Peter Seč	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
19.	Mgr. Ivana Slaninková	Prírodovedecká fakulta UK	5.2.25 biotechnológie
20.	RNDr. Alena Šedivá	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
21.	Mgr. Mária Šedivá	Prírodovedecká fakulta UK	4.1.22 biochémia
22.	RNDr. Klaudia Talafová	Prírodovedecká fakulta UK	4.1.22 biochémia
23.	Mgr. Veronika Virčíková	Prírodovedecká fakulta UK	4.1.22 biochémia
Interní doktorandi hradení z iných zdrojov			
1.	Ing. Štefan Belický	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
2.	Ing. Pavel Damborský	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
3.	Ing. András Hushegyi	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
4.	Ing. Dominika Pihíková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Makrofágy ako ciele imunomodulačného účinku beta-glukánov pri tumoroch a zápale *(Macrophages as targets for immunomodulating effect of beta-glucans in tumours and inflammation)*

Zodpovedný riešiteľ: Slavomír Bystrický
Trvanie projektu: 1.1.2010 / 31.12.2013
Evidenčné číslo projektu: SAV-RAMS
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských 2 - Rusko: 2
inštitúcií:
Čerpané financie: 0

2.) NMR štúdium biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody a arktického snehu *(NMR study of biosurfactants produced by bacteria isolated from cloud water and arctic snow)*

Zodpovedný riešiteľ: Mária Matulová
Trvanie projektu: 1.1.2013 / 31.12.2014
Evidenčné číslo projektu: SAV-CNRS č. 3
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských 2 - Francúzsko: 2
inštitúcií:
Čerpané financie:

3.) Vývoj potentných a selektívnych inhibítorov glykozyltransferáz *(Development of potent and selective glycosyltransferase inhibitors)*

Zodpovedný riešiteľ: Igor Tvaroška
Trvanie projektu: 1.1.2013 / 31.12.2015
Evidenčné číslo projektu: SAS-NSC 2012/8
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských 4 - Slovensko: 2, Taiwan: 2
inštitúcií:
Čerpané financie: SAV: 22000 €
NSC (Taiwan): 3000 €

Programy: Medziústavná dohoda

4.) Aplikácia a charakterizácia xylanáz: Spôsob účinku G30 xylanáz (*Application and characterization of xylanases: Mode of action of G30*)

Zodpovedný riešiteľ: Peter Biely
Trvanie projektu: 1.11.2009 / 30.12.2013
Evidenčné číslo projektu: Collaborative Research Agreement
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Nórsko: 2
Čerpané financie: 0

5.) Štruktúrálna analýza prírodných látok z liečivých rastlín (*Structural analysis of natural compounds from medicinal plants*)

Zodpovedný riešiteľ: Peter Capek
Trvanie projektu: 1.6.2011 / 30.9.2013
Evidenčné číslo projektu: Agreement
Organizácia je koordinátorom projektu: nie
Koordinátor: P. Dabrowski, MSc., Eng., DK Analytika, Jelenia Gora
Počet spoluriešiteľských inštitúcií: 2 - Poľsko: 2
Čerpané financie: DK Analytika, Poland: 5000 €

Programy: Medzivládna dohoda

6.) Polymérne látky z instantnej kávy (*Polymeric substances from instant coffee powder*)

Zodpovedný riešiteľ: Peter Capek
Trvanie projektu: 1.1.2013 / 31.12.2014
Evidenčné číslo projektu: SK-PT-0024-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Portugalsko: 2
Čerpané financie: APVV: 2700 €

7.) Polysacharid-polyfenolové konjugáty s antikoagulačnou a antioxidačnou aktivitou z vybraných rastlín čeľade Asteraceae a Rosaceae (*Polysaccharide-polyphenolic conjugates with anticoagulant and antioxidant activity from selected plants of Asteraceae a Rosaceae families*)

Zodpovedný riešiteľ: Peter Capek

Trvanie projektu: 1.1.2013 / 31.12.2014
Evidenčné číslo projektu: SK-PL-0084-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Poľsko: 2
Čerpané financie: APVV: 2000 €

Dosiahnuté výsledky:

Výsledkom riešenia projektu v roku 2013 sú 2 karentovaná publikácie.

8.) Lektínové biočipy pre charakterizáciu glykánových štruktúr proteínov IGF systému ako nástroj pre výskum, diagnostiku a terapiu kolorektálneho karcinómu (*Lectin biochips for characterization of glycan structure of the IGF system proteins as a tool for research, diagnostics and therapy of colorectal carcinoma*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.1.2012 / 31.12.2013
Evidenčné číslo projektu: SK-SRB-0041-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Srbsko: 2
Čerpané financie: APVV: 2430 €

Dosiahnuté výsledky:

Uskutočnili sa mobility Dr. J. Katrlíka a Mgr. A. Šedivej na pracovisku partnera (Prof. Olgica Nedič, Institute for the Application of Nuclear Energy - INEP, University of Belgrade, Srbsko) a Prof. O. Nedič a Mgr. D. Robajac z INEP na CHÚ SAV. Spracované boli vzorky pacientov s kolorektálnym karcinómom až po imunoprecipitáciu sledovaných proteínov (INEP) a merali sa glykozylácie vzoriek séra, cytozolu, frakcie membránových proteínov a izolovaných proteínov pomocou lektínového microarray panelom 16 lektínov (CHÚ). Výsledky boli prezentované na European Biotechnology Congress EUROBIOTECH 2013, Bratislava.

9.) NMR štúdium biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody a arktického snehu (*NMR study of the structure of biosurfactants produced by bacteria isolated from cloud water and arctic snow*)

Zodpovedný riešiteľ: Mária Matulová
Trvanie projektu: 1.1.2012 / 31.12.2013
Evidenčné číslo projektu: SK-FR-0030-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Francúzsko: 1
Čerpané financie: APVV: 2648 €

Programy: COST

10.) Koloidné aspekty nanovedy pre inovačné procesy a materiály (*Colloidal aspects of nanoscience for innovative processes and materials*)

Zodpovedný riešiteľ: Peter Gemeiner
Trvanie projektu: 15.6.2011 / 18.1.2016
Evidenčné číslo projektu: CMST COST Action CM1101
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Piotr Warszynski, Institute of Catalysis and Surface Chemistry, Krakow, Poland
Počet spoluriešiteľských inštitúcií: 30
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

V rámci riešenia projektu sa pokračovalo v meraní a vyhodnocovaní interakcií medzi rôznymi plazmovými proteínmi a koloidnými polymérnymi nanonosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR). Nadviazala sa spolupráca s Faculty of Chemistry, Sofia University, Bulgaria a Faculty of Veterinary Medicine, University of Bari “Aldo Moro”.

KATRLÍK, Jaroslav - GEMEINER, Peter - YORDANOV, Georgi. Surface plasmon resonance – tool for study of interaction of colloidal drug carriers with proteins. In Joint Meeting of WG3, WG4 and WG5, COST Action CM1101: Synthesis, Kinetics and Catalytic Aspects of Biocolloids, 24-25 January 2013, Valletta, Malta. Malta: University of Malta.
<http://projects.um.edu.mt/cm1101/malta2013/> (AFG)

KATRLÍK, Jaroslav - GEMEINER, Peter - YORDANOV, Georgi. Measurement of Interaction of colloidal drug carriers based on polymeric nanoparticles with human plasma proteins by surface plasmon resonance. In Poster presentations: ECIS 2013 - 27th Conference of the European Colloid and Interface Society, September 1-6, 2013, Sofia, Bulgaria. Sofia: Bulgarian Academy of Sciences, 2013. <http://www.ecis2013.org/> (AFG)

KATRLÍK, Jaroslav - GEMEINER, Peter - ŠEDIVÁ, Alena. Lectin microarray and surface plasmon resonance biochips for detection of glycosylation and glyco-biomarkers. In Abstracts: European Biotechnology Congress 2013, May 16-18, 2013, Bratislava, Slovakia. In Current Opinion in Biotechnology, 2013, vol. 24, suppl. 1, p. S25. (7.860 - IF2012). ISSN 0958-1669. (AFFA)

11.) Analytické techniky pre biorefinérie (*Analytical techniques for biorefinerie*)

Zodpovedný riešiteľ: Zdenka Hromádková
Trvanie projektu: 1.8.2009 / 14.10.2013
Evidenčné číslo projektu: COST Action FP0901
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Stefan Willför, Wood and Paper Chemistry, Abo Akademi University
Počet spoluriešiteľských 21

inštitúcií:

Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 2617 €

Dosiahnuté výsledky:

Výsledky z jednotlivých COST pracovísk dosiahnuté v rámci štúdia využitia netradičných extrakčných postupov (ultrazvuk) ale aj klasickej extrakcie s použitím delignifikačného kroku alebo priamej extrakcie sa prehodnotili v tzv. „Robin teste“. Postupy separácie jednotlivých komponentov boli porovnané z hľadiska ich výťažkov, zloženia a štruktúry. Dr. Hromádková sa zúčastnila na záverečnom mítingu Management Committee v Abo/Turku, na ktorom bola schválená záverečná správa o financovaní a dosiahnutých výsledkoch a rokovalo sa o budúcej spolupráci. Projekt bol úspešne ukončený 14.10.2013. Publikované boli práce, zaoberajúce sa štruktúrnou analýzou polysacharidov z poľnohospodárskych plodín a ich biologickou aktivitou.

HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - POLOVKA, Martin - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Structural features of two heteroxylan polysaccharide fractions from wheat bran with anti-complementary and antioxidant activities. In Carbohydrate Polymers, 2013, vol. 93, p. 22-30. (3.479 - IF2012). ISSN 0144-8617. (ADCA)

KOŠŤÁLOVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - POLOVKA, Martin - MICHAELSEN, Terje Einar - PAULSEN, Berit Smestad. Polysaccharides from the Styrian oil-pumpkin with antioxidant and complement-fixing activity. In Industrial Crops and Products, 2013, vol. 41, p. 127-133. (2.468 - IF2012). ISSN 0926-6690. (ADCA)

HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - DEÁKOVÁ, Ľubomíra - VRCHOTOVÁ, Naděžda - EBRINGEROVÁ, Anna. Effect of extraction processes on the yields and purity of obtained hemicelluloses from industrial grass. In COST FP0901 Final Meeting: "Biorefinery analytics – Outcomes from COST Action FP0901, September 17-18, 2013, Abo/Turku, Finland. Abo: Abo Akademi University, 2013. p. 45-46. (AFG)

DEÁKOVÁ, Ľubomíra - HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana. Extrakcia hemicelulóz z industriálnej trávy extrakciou alkáliami v prítomnosti H₂O₂, alebo po klasickej NaClO₂ delignifikácii. In FERKO, Miroslav - FARKAŠ, Pavol (Eds.). Zborník abstraktov: Interaktívna konferencia mladých vedcov 2013. Banská Bystrica: Občianske združenie PREVEDA, 2013. ISBN 978-80-970712-5-7. p. 51. (AFHB)

12.) Zhodnotenie potravinového odpadu pre udržateľné chemikálie, materiály a palivá (EUBis) (Food waste valorisation for sustainable chemicals, materials & fuels (EUBis))

Zodpovedný riešiteľ: Zdenka Hromádková
Trvanie projektu: 22.11.2012 / 21.11.2016
Evidenčné číslo projektu: FA COST Action TD1203
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. James Clark, Department of Chemistry, The University of York
Počet spoluriešiteľských inštitúcií: 23
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 4667 €

Dosiahnuté výsledky:

V rámci nadviazanej spolupráce s pracoviskom University of Liege, Gembloux Agro-Bio Tech, Department of Industrial Biological Chemistry, Belgium sa uskutočnil krátkodobý (STSM)

pracovný pobyt (12 dní) Dr. Košťálovej, pričom boli metódou RSM testované vhodné podmienky na izoláciu pektínových polysacharidov s použitím mikrovlnného žiarenia.

HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. Structure and antioxidant activities of spelt bran heteroxylans. In COST TD1203 WG1 Meeting, May 14, 2013, Stockholm, Sweden. Stockholm: Swedish University of Agricultural Sciences, 2013. p. 45-46. (AFG)

13.) Produkcia minerálne upravených plodín pre zdravé/nezávadné potraviny a krmivo (*Mineral-improved crop production for healthy food and feed*)

Zodpovedný riešiteľ: Desana Lišková
Trvanie projektu: 1.1.2010 / 13.4.2014
Evidenčné číslo projektu: COST Action FA0905
Organizácia je nie
koordinátorom projektu:
Koordinátor: Prof. Bal Ram Singh, Department of Plant and Environmental Sciences, Norwegian University of Life Sciences (UMB)
Počet spoluriešiteľských inštitúcií: 27
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Významným výsledkom je zaznamenanie chronologickej distribúcie kadmia v jednotlivých pletivách rastlín počas rastu v kadmioom kontaminovanom prostredí. Na začiatku kultivácie sa kadmium ukladalo v koreni a hypokotyle, neskôr sa transportovalo xylémom do listov a ukladalo sa v menej bioaktívnych pletivách, trichómoch rastlín *Arabidopsis thaliana* a *Pteris vittata*. Prítomnosť kadmia spôsobila štrukturálne zmeny koreňového apexu, xylémových elementov a vývinu suberínovej lamely v rastlinách *Pteris vittata*. Predpokladá sa, že rastlinná bunková stena je jedným z miest ukladania toxických látok prijatých rastlinou. Zloženie bunkových stien a spôsob ukladania toxických kovov v nej by mohlo objasniť mechanizmus ochrany rastlín voči kontaminácii prostredia. Z výsledkov vyplýva, že hlavným komponentom bunkových stien koreňov kukurice je celulóзовý komplex, polysacharidy extrahované alkáliami a najmenší podiel tvoria polysacharidy extrahované vodou. Krížová väzba celulóзовých mikrofibríl s glukuronoarabinoxylánmi a nízky obsah pektínov je charakteristický pre typ II bunkových stien tráv, vrátane kukurice (*Zea mays* L.). Zo zmien polysacharidov bunkových stien počas stresu vyvolaného kadmioom vyplýva, že bunková stena neslúži len ako sink akumulácie toxického kovu, ale je aj do značnej miery počas takéhoto stresu modifikovaná. Najvyššia akumulácia kadmia sa zistila v polysacharidových frakciách extrahovaných alkáliami. Katióny kadmia pravdepodobne vytvorili komplexy hlavne s kyselinou glukurónovou a glukuronoarabinoxylánom. Nadviazala sa spolupráca s Université de Lorraine, Nancy, Francúzsko. V rámci riešenia francúzskeho projektu vycestoval na toto pracovisko Mgr. Ivan Zelko, PhD. na 1-ročnú stáž.

KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - ZELKO, Ivan - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides alleviate cadmium stress in *Arabidopsis*. In Journal of Plant Physiology, 2013, vol. 171, p. xxx-yyy. (2.699 - IF2012). ISSN 0176-1617. (ADCA) (akceptované)

BALESTRI, Mirko - CECCARINI, Alessio - FORINO, Laura Maria Costantina - ZELKO, Ivan - MARTINKA, Michal - LUX, Alexander - RUFFINI CASTIGLIONE, Monica. Cadmium uptake, localization and stress-induced morphogenic response in the fern *Pteris vittata*. In Planta, vol. 239,

p. xxx-yyy. (3.347 - IF2012). ISSN 0032-0935. (ADCA) (v recenznom konaní)

ZELKO, Ivan - LIŠKOVÁ, Desana - STERCKEMAN, Thibault - LUX, Alexander. Root structural variability in *Nocca caerulea*. In COST Action FA 0905 "Mineral Improved Crop Production for Healthy Food and Feed – 4th Annual Conference: Essential and Detrimental Trace Elements Entering the Food Chain via Plants", June 9-13, 2013, As, Norway. As: Norwegian University of Life Sciences (UMB), 2013. p. 87. (AFG)

VATEHOVÁ, Zuzana - MALOVÍKOVÁ, Anna - KÁKOŠOVÁ, Anna - KOLLÁROVÁ, Karin - KUČEROVÁ, Danica - LIŠKOVÁ, Desana. Toxic metals and cell wall polysaccharides. In 65. Zjazd chemikov, 9-13. september 2013, Tatranské Matliare, Slovensko. Bratislava: Slovenská chemická spoločnosť, 2013. In ChemZi, 2013, roč. 9, č. 1, s. 232. ISSN 1336-7242. (AFHB)

KÁKOŠOVÁ, Anna - KÁKONIOVÁ, Daniela - ZELKO, Ivan - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - KUČEROVÁ, Danica - LIŠKOVÁ, Desana. Modified method for isolation of maize protoplasts. In Zborník príspevkov z konferencie 11. Dni doktorandov experimentálnej biológie rastlín a 13. Konferencie experimentálnej biológie rastlín, 9-13. september 2013, Košice, Slovensko. Košice: Prírodovedecká fakulta UPJŠ v Košiciach, 2013. s. 119. (AFHB)

KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - KUČEROVÁ, Danica - KÁKOŠOVÁ, Anna - ZELKO, Ivan - LIŠKOVÁ, Desana. Interaction of silicon and arsenic in poplar cultures in vitro. In Zborník príspevkov z konferencie 11. Dni doktorandov experimentálnej biológie rastlín a 13. Konferencie experimentálnej biológie rastlín, 9-13. september 2013, Košice, Slovensko. Košice: Prírodovedecká fakulta UPJŠ v Košiciach, 2013. s. 147. (AFHB)

14.) Systémy biokatalýzy (*Systems biocatalysis*)

Zodpovedný riešiteľ: Jozef Nahálka
Trvanie projektu: 20.11.2013 / 19.11.2017
Evidenčné číslo projektu: CMST COST Action CM1303
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Stefano Servi, The Protein Factory, Milano
Počet spoluriešiteľských inštitúcií: 25
Čerpané financie: 0

15.) Chemický prístup riešenia rezistencie liečiv v rakovinových kmeňových bunkách (*Chemical approaches to targeting drug resistance in cancer stem cells*)

Zodpovedný riešiteľ: Igor Tvaroška
Trvanie projektu: 28.3.2012 / 27.3.2016
Evidenčné číslo projektu: COST CMST Action CM1106
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Daniele Passarella, Università degli Studi di Milano
Dipartimento di Chimica Organica e Industriale, Milano, Italy
Počet spoluriešiteľských inštitúcií: 30
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

V rámci COST konzorcia sa spolupracuje so skupinou Dr. Reisa (Institute of Molecular Pathology and Immunology, University of Porto) (IPATIMUP), ktorá má rozpracované rakovinové systémy bunkových línií (MKN45 bunkové línie zo žalúdka), v ktorých je nadexprimovaná alfa-2,3-sialyltransferáza (ST3Gal IV). Tieto bunkové línie slúžia ako modelové systémy na testovanie inhibítorov s antirakovinotvornými účinkami. V snahe navrhúť knižnicu štruktúr-inhibítorov ST3Gal IV s použitím metód 3D-štruktúrneho molekulového modelovania bolo v prvej fáze nevyhnutné pripraviť 3D-model enzýmu, ktorý by slúžil ako receptor na následné dokovanie navrhnutých štruktúr inhibítorov. Keďže v súčasnosti nie je prístupná kryštálová štruktúra ST3Gal IV, bol postavený homológny model na základe prístupnej aminokyselinovej sekvencie ST3Gal IV a kryštálovej štruktúry ST3Gal I. Daný model bol následne optimalizovaný a testovaný pomocou metód molekulovej dynamiky a hybridných metód kvantovej mechaniky/molekulovej mechaniky.

KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor. How to improve predictive accuracy of a QSAR model for the design of inhibitors of sugar processing enzymes with transition metal ion co-factors. In Books of Abstracts: COST Action CM1106 1st Working Group Meeting: Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, 21–22 February 2013, Porto, Portugal. Porto: Institute of Molecular Pathology and Immunology of the University of Porto, 2013. p. 28. (AFG)

KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor - REIS, Celso A. Homology modeling of 3-D structures of alfa-2,3-sialyltransferases: designing inhibitors for human carcinoma cells. In Books of Abstracts: COST Action CM1106 2nd Working Group Meeting: Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, September 19-20, 2013, Warsaw, Poland. Warsaw: Warsaw University of Life Sciences, 2013. p. 41. (AFG)

16.) Multivalentné glykosystémy pre nanovedu - MultiGlykoNano (*Multivalent glycosystems for nanoscience - MultiGlykoNano*)

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	7.11.2011 / 6.11.2015
Evidenčné číslo projektu:	CMST COST Action CM1102
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Bruce Turnbull, University of Leeds, School of Chemistry, Leeds, United Kingdom
Počet spoluriešiteľských inštitúcií:	17
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Študované boli konformačné vlastnosti šesťčlenného kruhu idurónovej kyseliny pomocou metadynamiky, ktorá umožnila popísať prechody medzi jednotlivými formami kruhu. Výsledky boli publikované. Taktiež sa študoval katalytický mechanizmus glykozytransferázy Core2. Enzým, je zodpovedný za postranlačnú O-glykozyláciu pridaním sacharidu N-acetylglukózamínu za tvorby beta1,6-väzby, ktorá je kľúčová pre tvorbu antigénu Lewis. Mechanizmus OGT sa študoval pomocou QM/MM metód. Získané výsledky podporujú SN2 typ mechanizmu, v ktorom sacharid sám napomáha reakcii, a ktorý nebol doteraz pozorovaný u enzýmov tohoto typu. Získané výsledky môžu poskytnúť údaje na dizajn nových liečiv cielených na choroby súvisiace s aktivitou Core2.

OBORSKÝ, Pavel - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Toward an accurate conformational modeling of iduronic acid. In The Journal of Physical Chemistry B, 2013, vol. 117, p. 1003-1009. (3.607 - IF2012). ISSN 1520-6106. (ADCA)

TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. A QM/MM investigation of the catalytic mechanism of metal-ion-independent core 2 beta1,6-N-acetylglucosaminyltransferase. In Chemistry - A European Journal, 2013, vol. 19, p. 8153-8162. (5.831 - IF2012). ISSN 0947-6539. (ADCA)

Programy: European Science Foundation (ESF)

17.) ENV-Európske fórum pre glykovedy-RNP (*ESF-EuroGlycoforum-Research Networking Program*)

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.5.2009 / 30.4.2014
Evidenčné číslo projektu:	07-RNP-015 (ESF-RNP-LESC)
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Sabine L. Flitsch, School of Chemistry, Manchester Interdisciplinary Biocentre
Počet spoluriešiteľských inštitúcií:	19
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Finančne bola podporená účasť (J. Mucha) na: „1th World Conference on Congenital Disorders of Glycosylation for Families and Professionals on Congenital Disorders of Glycosylation: a Booming Story of Sugar Trees“. Konferencia bola organizovaná ako súčasť medzinárodného podujatia o vrodených ochoreniach metabolizmu (ICIEM a SSIEM 2013, Barcelona). Počas pobytu sa uskutočnilo stretnutie na pôde Detskej nemocnice San Juan de Déu v Llobregat (téma: skrining na CDG a genomická mutačná analýza). Na pracovnej časti satelitnej konferencie „CDG“ boli prezentované možnosti zapojenia Oddelenia glykobiológie CHÚ SAV do spolupráce v tomto výskume. Výsledkom je návrh na zaradenie nášho výskumného tímu do zoznamu odborných garantov v štruktúrnej analýze krvného glyko-biomarkeru pri CDG. Formou spolufinancovania boli uhradené náklady na „27th International Carbohydrate Symposium“, súčasťou ktorého je stretnutie riadiaceho výboru projektu (J. Mucha, január 2014). Z prostriedkov MVTs boli hrazené náklady účasti M. Nemčoviča na „14 ročníku Školy hmotnostnej spektroskopie“ (Jeseníky, Česko). Okrem cestovných výdavkov boli prostriedky MVTs čerpané na výdavky pri plnení úloh súvisiacich s realizáciou projektu.

NEMČOVIČOVÁ, Ivana - ŠESTÁK, Sergej - RENDIĆ, Dubravko - PLŠKOVÁ, Margita - MUCHA, Ján - WILSON, Iain B. H. Characterisation of class I and II alfa-mannosidases from *Drosophila melanogaster*. In Glycoconjugate Journal, 2013, vol. 30, p. 899-909. (1.882 - IF2012). ISSN 0282-0080. (ADCA)

Programy: 7RP

18.) Integrovaná infraštruktúra pre štruktúrnu biológiu (*An integrated structural biology infrastructure for Europe*)

Zodpovedný riešiteľ: Miloš Hricovíni
Trvanie projektu: 1.4.2008 / 31.12.2015
Evidenčné číslo projektu: FP7 211252
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. David Stuart, Division of Structural Biology, University of Oxford
Počet spoluriešiteľských inštitúcií: 20
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

INSTRUCT (Integrated Structural Biology Infrastructure) sa sústreďuje na riešenie biologických a biomedicínskych problémov a na budovanie potrebnej infraštruktúry v rámci EÚ. Cieľom INSTRUCT-u je umožniť prístup k infraštruktúre pre štruktúrnú biológiu, ktorá je k dispozícii na viacerých európskych pracoviskách. Mladým výskumníkom program umožňuje zúčastňovať sa školení a kurzov v jednotlivých technikách štruktúrnej biológie na pracoviskách v EÚ. Členstvo krajín v tomto programe si však vyžaduje súhlas jednotlivých vlád a príspevok každej participujúcej krajiny. Riešenie finančnej otázky tejto záležitosti je v súčasnosti v kompetencii Ministerstva školstva, vedy, výskumu a športu SR a je zahrnuté do programu Horizont 2020. V r. 2013 sa riešila najmä štruktúra biologicky aktívnych sacharidov (deriváty monosacharidov, synteticky modifikované polysacharidy a oligosacharidy heprínového typu). NMR laboratórium tiež spolupracovalo v oblasti metabolomiky s Diagnostickým centrom dedičných metabolických porúch Detskej fakultnej nemocnice na Kramároch v Bratislave. Pridelené finančné prostriedky sa využili na nákup výpočtovej techniky a potrebných chemikálií a čiastočne na hradenie cestovných nákladov.

19.) Zlepšenie prístupu a servisu pre užívateľov NMR z východnej Európy za účelom vytvorenia koordinovanej pan-Európskej komunity umožňujúcej spoluprácu vo výskume a na podporu technologického pokroku (*Enhancing access and services to East European users towards an efficient and coordinated Pan-European pool of NMR capacities to enable global collaborative research & boost technological advancements (EAST-NMR)*)

Zodpovedný riešiteľ: Miloš Hricovíni
Trvanie projektu: 1.2.2009 / 31.1.2013
Evidenčné číslo projektu: 228461-EAST-NMR
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Harald Schwalbe, Center for Biomolecular Magnetic Resonance, Johann Wolfgang Goethe-Universität Frankfurt a.M.
Počet spoluriešiteľských inštitúcií: 21 - Bulharsko: 1, Česko: 1, Nemecko: 2, Estónsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Maďarsko: 2, Švajčiarsko: 1, Izrael: 1, Taliansko: 1, Lotyšsko: 2, Holandsko: 1, Poľsko: 2, Slovensko: 1, Slovinsko: 1, Turecko: 1
Čerpané financie: EC Brussels: 3804 €
Podpora medzinárodnej spolupráce z národných zdrojov: 666 €

Dosiahnuté výsledky:

Projekt bol riešený v rámci programu INFRASTRUCTURES a bol určený na podporu rozvoja NMR infraštruktúry vo východoeurópskych krajinách. EAST NMR sa ukončil vo februári 2013 a

mal pre NMR komunitu na Slovensku významný prínos. V posledných dvoch mesiacoch riešenia programu sa vyhodnocovali výsledky projektu, prínosy 2nd EAST NMR Young Investigators' Meetingu, ktorý sa konal v Bratislave a napísala sa záverečná správa. Financie sa použili na nákup drobného kancelárskeho materiálu a monitora, ktorý sa využíva v NMR laboratóriu. Časť financií bola použitá na režijné náklady.

20.) Diagnostika rakoviny: Paralelná analýza biomarkerov rakoviny prostaty (*Cancer diagnosis: Parallel sensing of prostate cancer biomarkers*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.10.2012 / 30.9.2016
Evidenčné číslo projektu: FP7-317420
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr. Pedro Estrela, University of Bath, Bath
Počet spoluriešiteľských inštitúcií: 8 - Nemecko: 1, Veľká Británia: 3, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Portugalsko: 1
Čerpané financie: EC Brussels: 47568 €
Podpora medzinárodnej spolupráce z národných zdrojov: 17628 €

Dosiahnuté výsledky:

Výskumné aktivity boli zamerané na dve oblasti: (1) label-free elektrochemické glykoprofilovanie biomarkerov rakoviny prostaty založené na imobilizácii lektínov/protilátok na nanoštruktúrovaný povrch tvorený napr. uhlíkovými nanorúrkami, grafénom, zlatými nanočasticami alebo SAM vrstvou) a (2) glykorozpoznávanie pomocou microarray a SPR biočipov využívajúce lektíny alebo protilátky v kombinácii s rôznymi typmi biočipov. Vykonali sa tiež úvodné experimenty sledovania interakcií anti-PSA s PSA pomocou biočipových/biosenzorových techník. Dr. Tkáč a Dr. Katrlík sa zúčastnili na workshope "The production and application of antibodies and their use in biosensors and arrays" a Supervisory Board mítingu (Dublin City University, Dublin, Írsko). V rámci riešenia projektu nastúpili na Chemický ústav dvaja noví doktorandi (Ing. Belický a Ing. Damborský). V septembri 2013 vykonal na Chemickom ústave SAV v rámci projektu PROSENSE mesačný výskumný pobyt Jolly Pawan z University of Bath (supervisor Dr. Pedro Estrela).

TKÁČ, Ján - KATRLÍK, Jaroslav. Biosensing of prostate cancer. In Pan European Networks: Science & Technology, 2013, vol. 7, p. 19.

21.) Elektrochemické lektínové a glykánové biočipy integrované s nanoštruktúrami (*Electrochemical LECTin and glycan biochips integrated with Nanostructures*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.1.2013 / 31.12.2017
Evidenčné číslo projektu: FP7-311532 (ERC-SG-LS9)
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EC Brussels: 167247 €
Podpora medzinárodnej spolupráce z národných zdrojov: 26983 €

Dosiahnuté výsledky:

Pripravené boli viaceré typy elektrochemických lektínových biosenzorov kontrolovaným procesom imobilizácie lektínov v nanoškále s využitím najmä dvojzložkových samousporiadaných monovrstiev na zlatých povrchoch. Okrem štúdia zameraného na reumatoidnú artritídu boli lektínové biosenzory využité aj v analýze vzoriek pacientov so sklerózou a predbežné výsledky naznačujú, že elektrochemické lektínové biosenzory by mohli rozoznať vzorky ľudí so sklerózou od vzoriek zdravých ľudí. Zistilo sa, že technika elektrochemickej impedančnej spektroskopie je veľmi sľubným nástrojom v analýze veľmi nízkych koncentrácií glykoproteínov s potenciálom pre diagnostiku rôznych ochorení v ich rannom štádiu. Ďalšia z aplikácií elektrochemických lektínových biosenzorov bola smerovaná na možnosti odlíšiť leukemické myšie línie s rezistenciou voči liečivám od citlivých leukemických myších línií. Predbežné výsledky naznačujú, že lektínové biosenzory umožňujú analyzovať zmeny glykozylácie proteínov priamo na povrchu intaktných myších buniek.

BERTÓK Tomáš - GEMEINER, Pavol - MIKULA, Milan - GEMEINER, Peter - TKÁČ, Ján. Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. In *Microchimica Acta*, 2013, vol. 180, p. 151-159. (3.434 - IF2012). ISSN 0026-3672. (ADCA)

BERTÓK, Tomáš - ŠEDIVÁ, Alena - KATRLÍK, Jaroslav - GEMEINER, Pavol - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In *Talanta*, 2013, vol. 108, p. 11-18. (3.498 - IF2012). ISSN 0039-9140. (ADCA)

BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - ŠEDIVÁ, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. In *Analytical Chemistry*, 2013, vol. 85, p. 7324-7332. (5.695 - IF2012). ISSN 0003-2700. (ADCA)

BERTÓK Tomáš - KATRLÍK, Jaroslav - GEMEINER, Peter - TKÁČ, Ján. Electrochemical lectin based biosensors as a label-free tool in glycomics. In *Microchimica Acta*, 2013, vol. 180, p. 1-13. (3.434 - IF2012). ISSN 0026-3672. (ADCA)

TKÁČ, Ján - BERTÓK, Tomáš. Ultrasensitive lectin biosensors applicable in glycomics and diagnostics. In *Abstracts: European Biotechnology Congress 2013*, May 16-18, 2013, Bratislava, Slovakia. In *Current Opinion in Biotechnology*, 2013, vol. 24, suppl. 1, p. S21. (7.860 - IF2012). ISSN 0958-1669. (AFFA)

TKÁČ, Ján - BERTÓK, Tomáš. Lectin biosensors for ultrasensitive glycan analysis with applications in glycomics and diagnostics. In HOU, Ching T. - ČERTÍK, Milan (eds.). *Proceedings of 9th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB) & Workshop of Pannonian Plant Biotechnology Association*, October 13-16, 2013, Piešťany, Slovakia. Bratislava: Faculty of Chemical and Food Technology, Slovak University of Technology, 2013, p. 48. ISBN 978-80-970896-6-5. (AFFA)

TKÁČ, Ján - KLUKOVÁ, Ľudmila - BERTÓK, Tomáš. Possible application of ultrasensitive lectin biosensors in diagnostics. In *Sborník příspěvků: XIII. Pracovní setkání fyzikálních chemiků a elektrochemiků (13th Workshop of Physical Chemists and Electrochemists)*, 29-30. 5. 2013, Brno, Česká republika. Brno: Mendelova univerzita v Brně, 2013. ISBN 978-80-7375-757-1. p. S131-S132. (AFE)

22.) Nanočastice pre terapiu a diagnózu Alzheimerovej choroby (*Nanoparticles for therapy and diagnosis of Alzheimer disease - NAD*)

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	1.9.2008 / 30.8.2013
Evidenčné číslo projektu:	NMP4-LA-2008-212043
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Massimo Masserini, Department of Experimental Medicine, University of Milano-Bicocca
Počet spoluriešiteľských inštitúcií:	19 - Belgicko: 1, Dánsko: 1, Španielsko: 3, Fínsko: 1, Francúzsko: 3, Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Taliansko: 3, Holandsko: 1, Portugalsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 2667 €

Dosiahnuté výsledky:

Molekulovo dynamické simulácie a analýzy Cu^{2+} iónu koordinovaného s tromi histidínmi beta-amyloidu, menovite His6, His13 a His14 ukázali, že vzniknutý komplex ovplyvnil sekundárnu štruktúru beta-amyloidu v okolí histidínov, ktoré koordinujú Cu^{2+} ión. Komplex narušil stabilnú alfa-helikálnu štruktúru a vytvoril krátku slučku ktorá umožnila vznik (His)3- Cu^{2+} ión komplexu. Vo vypočítanej molekulovo dynamickej trajektórii sa analyzovali vzdialenosti medzi Cu^{2+} a dusíkmi na His6, His13 a His14 medzi Cu^{2+} a karbonylovými kyslíkmi peptidickej väzby His6 a His13 a medzi kyslíkmi Asp23 a dusíkom na Lys28. Analýza sledovaných vzdialeností ukázala, že (His)3- Cu^{2+} komplex bol stabilný prvých približne 9.5 ns simulácie. Počas tejto doby Cu^{2+} najviac interagovali s dusíkmi na His13 a His6 a karbonylovým kyslíkom His13. Analýzy nameraných vzdialeností naznačujú, že (His)3- Cu^{2+} je stabilný len pre prípad, že mednatý ión je koordinovaný prinajmenšom dvoma His rezíduami. Výsledky taktiež naznačujú, že His13 sa najväčšou mierou podieľa na stabilite komplexu a pre dlhodobú stabilitu (His)3- Cu^{2+} komplexu je potrebná koordinácia všetkými tromi histidínovými rezíduami a že (His)3- Cu^{2+} komplex zabraňuje vzniku solného mostíka medzi Asp23-Lys28.

KOZMON, Stanislav - TVAROŠKA, Igor. Molecular dynamic studies of amyloid-beta interactions with Curcumin and Cu^{2+} ions. Odoslané do redakcie.

23.) Výskumná infraštruktúra mikrobiálnych zdrojov (*Microbial Resource Research Infrastructure*)

Zodpovedný riešiteľ:	Renáta Vadkertiová
Trvanie projektu:	1.11.2012 / 31.10.2015
Evidenčné číslo projektu:	FP7-312251
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Leibniz-Institut DSMZ - Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH
Počet spoluriešiteľských inštitúcií:	17 - Belgicko: 2, Nemecko: 2, Španielsko: 2, Francúzsko: 2, Veľká Británia: 1, Taliansko: 2, Holandsko: 1, Poľsko: 1, Portugalsko: 1, Rusko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4667 €

Dosiahnuté výsledky:

Cieľom MIRRI je vytvorenie infraštruktúry, ktorá bude poskytovať kvalitné mikrobiálne kultúry a

servisné služby spojené s využívaním mikroorganizmov vo výskume, na univerzitách a v priemysle nielen v rámci Európy, ale aj celého sveta. Pridelené prostriedky MVTs sa preto použili na vybavenie a na pokrytie nákladov spojených s identifikáciou kvasiniek pomocou molekulárnych metód. Tieto metódy umožňujú spoľahlivú identifikáciu kvasiniek, čím sa Zbierka kultúr kvasiniek priblíži k štandardom zavedeným v iných zbierkach.

Projekty národných agentúr

Programy: VEGA

1.) Mikrobiálne enzýmy biokonverzie rastlinných hemicelulóz (*Microbial enzymes for bioconversion of plant hemicelluloses*)

Zodpovedný riešiteľ: Peter Biely
Trvanie projektu: 1.1.2010 / 31.12.2013
Evidenčné číslo projektu: 2/0001/10
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 9959 €

2.) Rastlinné slizy, štruktúra a bioaktivita (*Plant mucilages, structure and bioactivity*)

Zodpovedný riešiteľ: Peter Capek
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 2/0017/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 7377 €

3.) Dešifrovanie glykokódu s využitím lektinomických nástrojov: Imobilizácia lektínov v nanoškále s detekciou glykoforiem v microarray formáte (*Deciphering the glycode using tools of lectinomics: Nanoscale-controlled immobilisation of lectins with an microarray-based format of glycoform detection*)

Zodpovedný riešiteľ: Peter Gemeiner
Trvanie projektu: 1.1.2010 / 31.12.2013
Evidenčné číslo projektu: 2/0127/10
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV: 15646 €

4.) Nové, výkonnejšie imobilizačné technológie pre biokatalyzátory oxidačno-redukčných reakcií a konštrukciu biosenzorov a biobaterií (*Novel, more efficient immobilization technologies for biocatalysts of oxo-reductive reactions and construction of biosensors and biobatteries*)

Zodpovedný riešiteľ: Peter Gemeiner
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 1/0229/12
Organizácia je nie
koordinátorom projektu:
Koordinátor: FCHPT STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 13501 €

5.) Mimetiká inhibítorov glykozyltransferáz - racionálny dizajn, syntéza a aplikácie (*Mimetics of glycosyltransferase inhibitors - rational design, synthesis and applications*)

Zodpovedný riešiteľ: Ján Hirsch
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 2/0101/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 8975 €

6.) Biologicky aktívne sacharidy: syntéza, 3D štruktúra a medzimolekulové interakcie (*Biologically active saccharides: Synthesis, 3D structure and intermolecular interactions*)

Zodpovedný riešiteľ: Miloš Hricovíni
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0087/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 5164 €

7.) Bioaktívne polysacharidy z nevyužívaných rastlín a rastlinných odpadov: štruktúrna a funkčná rozmanitosť (*Bioactive polysaccharides from non-utilized plants and plant wastes: structural and functional diversity*)

Zodpovedný riešiteľ: Zdenka Hromádková
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0085/13

Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 11803 €

8.) Výskum molekulárnych faktorov obrany včelstiev voči niektorým mikrobiálnym patogénom (*Investigation of molecular factors of the defense of honeybee colonies against some microbial pathogens*)

Zodpovedný riešiteľ: Jaroslav Klaudiny
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 2/0178/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 7610 €

9.) Bioaktívny faktor - galaktoglukomanán - potenciál zbytkového produktu spracovania dreva pre kontrolu vývinu a ochranu rastlín (*Bioactive factor - galactoglucomannan - potential of a wood-related residue in the control of the plant development and protection*)

Zodpovedný riešiteľ: Desana Lišková
Trvanie projektu: 1.1.2010 / 31.12.2013
Evidenčné číslo projektu: 2/0046/10
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV: 8088 €

10.) Vplyv arzénu a antimónu na produkčné a fyziologické charakteristiky rastlín (*The effect of arsenic and antimony on production and physiological characteristics of plants*)

Zodpovedný riešiteľ: Desana Lišková
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 1/0817/12
Organizácia je koordinátorom projektu: nie
Koordinátor: PriF UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 3370 €

11.) Príprava subcelulárnych vakcín z oligomanozidových epitopov kvasinky *Candida albicans* a ich imunomodulačné vlastnosti (*Preparation of subcellular vaccines from oligomannoside epitopes of Candida albicans yeast and their immunomodulation properties*)

Zodpovedný riešiteľ: Eva Machová
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0026/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 18602 €

12.) Chemoenzymatická syntéza kľúčových glykosyntónov prírodných látok (*Chemoenzymatic synthesis of key glycosynthons of natural substances*)

Zodpovedný riešiteľ: Mária Mastihubová
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 2/0138/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 9836 €

13.) NMR štúdium biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody a arktického snehu (*NMR study of biosurfactants produced by bacteria isolated from cloud water and arctic snow*)

Zodpovedný riešiteľ: Mária Matulová
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0007/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 7438 €

14.) Štúdium vzťahu štruktúry a funkcie katalytickej domény alfa-manozidáz typ-2 (*Study of relationship between the structure and function of the catalytic domain of alfa-mannosidases class-2*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0176/11
Organizácia je áno

koordinátorom projektu:

Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 7102 €

15.) Nová technológia syntézy derivátov sialových kyselín a epitopu a-Gal využiteľných pri vývoji vakcín, antibiotík a humanizovaných plastov (*Novel technology for synthesis of sialo and a-Gal derivatives needed for development of vaccines, antibiotics and humanized plastics*)

Zodpovedný riešiteľ: Jozef Nahálka
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0136/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 6885 €

16.) Syntéza mimetik tranzitných stavov na inhibíciu glykozyltransferáz (*Synthesis of transition state mimetics for inhibition of glycosyltransferases*)

Zodpovedný riešiteľ: Ladislav Petruš
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 1/0962/12
Organizácia je koordinátorom projektu: nie
Koordinátor: PriF UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 14233 €

17.) Syntéza, štrukturálny dizajn a evaluácia nových sulfónových derivátov D-manózy – inhibítorov glykozidhydroláz (*Synthesis, structural design and evaluation of new sulfone derivatives of D-mannose – inhibitors of glycoside hydrolases*)

Zodpovedný riešiteľ: Monika Poláková
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 2/0159/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 1721 €

18.) Transglykozylázy rastlinných a fungálnych bunkových stien (*Transglycosylases of plant*

and fungal cell walls)

Zodpovedný riešiteľ: Eva Stratilová
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 2/0020/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 9534 €

19.) Charakterizácia prenosu signálu protein kinázou – endoribonukleázou Ire1p v endoplazmatickom retikule (*Characterization of signal transduction by the endoplasmic reticulum stress-responsive protein kinase endoribonuclease Ire1p*)

Zodpovedný riešiteľ: Sergej Šesták
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0194/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 6153 €

20.) Ekológia kvasiniek osídľujúcich povrchy plodov a kvetov ovocných stromov s ohľadom na ich vlastnosti, aktivitu a prežívanie (*Ecology of yeasts inhabiting the fruit surfaces and flowers of fruit-trees with emphasis of their characteristics, activity, and survival*)

Zodpovedný riešiteľ: Renáta Vadkertiová
Trvanie projektu: 1.1.2010 / 31.12.2013
Evidenčné číslo projektu: 2/0005/10
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 6542 €

Programy: APVV

21.) Štúdium regulácie radikálovej a bunkovej signalizácie v hypertenzii a vplyv nových terapií na túto signalizáciu (*Study of regulation of radical and cellular signaling during hypertension and influence of novel therapies on this signaling*)

Zodpovedný riešiteľ: Miroslav Barančík
Zodpovedný riešiteľ v organizácii SAV: Jozef Nahálka

Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0348-12
Organizácia je nie
koordinátorom projektu:
Koordinátor:
Počet spoluriešiteľských 1 - Slovensko: 1
inštitúcií:
Čerpané financie: APVV: 1300 €

22.) Biotechnologická príprava nových typov funkčných obilnín a cereálnych produktov obohatených o polynenasýtené mastné kyseliny a pigmenty (*Biotechnological preparation of new types of functional cereals and cereal products enriched with polyunsaturated fatty acids and pigments*)

Zodpovedný riešiteľ: Emília Breierová
Trvanie projektu: 1.7.2012 / 31.12.2015
Evidenčné číslo projektu: APVV-0662-11
Organizácia je nie
koordinátorom projektu:
Koordinátor: FCHPT STU
Počet spoluriešiteľských 3 - Slovensko: 3
inštitúcií:
Čerpané financie: APVV: 6000 €

Dosiahnuté výsledky:

Sledoval sa vplyv selénu na zloženie lipidov počas rastu pigmentotvorných kvasiniek rodu *Rhodotorula* a *Sporobolomyces*. Prítomnosť kovu v médiu významne predĺžila lag-fázu kvasinkových kmeňov a zmenila morfológiu buniek – bunky mali predĺžený tvar. Celkové, neutrálne a membránové lipidy boli zložené hlavne z kyseliny palmitovej, palmitolejovej, steárovej, olejovej, linolénovej a linolevej. Selén aktivoval prítomnosť nenasýtených mastných kyselín.

ČERTÍK, Milan - BREIEROVÁ, Emília - OLÁHOVÁ, Monika - ŠAJBIDOR, Ján - MÁROVÁ, Ivana. Effect of selenium on lipid alternations in pigment-forming yeasts. In Food Science and Biotechnology, 2013, vol. 22(S), p. 45-51. (0.695 - IF2012). ISSN 1226-7708. (ADCA)

23.) Imobilizačné techniky pre prípravu biokatalyzátorov na priemyselnú produkciu prírodných aróm (*Immobilization techniques for preparation of biocatalysts for industrial production of natural flavours*)

Zodpovedný riešiteľ: Marek Bučko
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0302-10
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských 3 - Slovensko: 3
inštitúcií:
Čerpané financie: APVV: 18479 €

24.) Biodekorované kompozitné magnetické nanočastice: Príprava, kolektívne vlastnosti a ich aplikácie (*Biodecorated composite magnetic nanoparticles: Preparation, collective properties and applications*)

Zodpovedný riešiteľ: Ignác Capek
Zodpovedný riešiteľ v organizácii SAV: Peter Capek
Trvanie projektu: 1.7.2012 / 31.12.2015
Evidenčné číslo projektu: APVV-0125-11
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 6400 €

25.) Nové názory na farmakologické ovplyvnenie alergickej astmy (*New opinions on pharmacological modulation of allergic asthma*)

Zodpovedný riešiteľ: Peter Capek
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0305-12
Organizácia je koordinátorom projektu: nie
Koordinátor: Jesseniova lekárska fakulta UK v Martine
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

26.) Výskum adaptácie rastlín v rádioaktívnej Černobyľskej oblasti a ich možné využitie (*Undersdanding of plant adaptation in the radioactive Chernobyl area*)

Zodpovedný riešiteľ: Martin Hajduch
Zodpovedný riešiteľ v organizácii SAV: Jozef Nahálka
Trvanie projektu: 1.7.2012 / 31.12.2015
Evidenčné číslo projektu: APVV-0740-11
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: 0

27.) Výskum a vývoj technológií prípravy tenkých vrstiev karbidu kremíka pre aplikácie v solárnych článkoch a v tenkovrstvových súčiastkach (*Research and development of silicon carbide thin film technologies for applications in solar cells and thin film devices*)

Zodpovedný riešiteľ: Jozef Huran

Zodpovedný riešiteľ v organizácii SAV: Vlasta Sasinková
Trvanie projektu: 1.10.2013 / 31.12.2016
Evidenčné číslo projektu: APVV-0443-12
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 505 €

28.) Modifikácia ionómu rastlín kremíkom pre zlepšenie nutričnej kvality plodín (*Plant ionome modification by silicon for improvement of the crop nutrition quality*)

Zodpovedný riešiteľ: Desana Lišková
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0140-10
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK v Bratislave
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 11000 €

29.) Chemoenzymatická syntéza a hodnotenie biologických aktivít prírodných glykofenolík a ich analógov (*Chemoenzymatic synthesis and evaluation of biological activities of natural glycophenolics and their analogues*)

Zodpovedný riešiteľ: Mária Mastihubová
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0846-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 5300 €

30.) Štruktúrálny dizajn, syntéza a evaluácia selektívnych inhibítorov glykozidhydroláz z rodiny 38 (*Structural design, synthesis and evaluation of selective inhibitors of glycoside hydrolases from the family 38*)

Zodpovedný riešiteľ: Monika Poláková
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0484-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1

inštitúcií:

Čerpané financie: APVV: 4385 €

31.) Štruktúra, vlastnosti a biotechnologický potenciál nových mikrobiálnych enzýmov degradujúcich rastlinnú hmotu (*Structure, properties and biotechnological potential of novel microbial enzymes degrading plant biomass*)

Zodpovedný riešiteľ: Vladimír Puchart
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0602-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: 0

32.) Zmeny v metabolizme bunky vyvolané nadexpresiou transportéra liečiv P-glykoproteínu v leukemických bunkách (*Alteration in cell metabolism associated with drug transporter – P-glycoprotein overexpression in leukemia cells*)

Zodpovedný riešiteľ: Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV: Jaroslav Katrlík
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0290-10
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 6986 €

33.) Príprava nanoštruktúrovaných filmov, ich integrácia s bioelementmi a následné využitie (*Preparation of nanostructured interfaces, their integration with bioelements and subsequent use*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.7.2012 / 31.12.2015
Evidenčné číslo projektu: APVV-0282-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: APVV: 46163 €

34.) Nanočastice pre terapiu a diagnózu Alzheimerovej choroby (*Nanoparticles for therapy and diagnosis of Alzheimer disease - NAD*)

Zodpovedný riešiteľ: Igor Tvaroška
Trvanie projektu: 1.9.2008 / 30.6.2013
Evidenčné číslo projektu: APVV-DO7RP-0013-08
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Massimo Masserini, Department of Experimental Medicine, University of Milano-Bicocca
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Programy: Štrukturálne fondy EÚ Výskum a vývoj

35.) Aplikovaný výskum v oblasti priemyselnej biokatalýzy (*Applied research in the field of industrial biocatalysis*)

Zodpovedný riešiteľ: Peter Gemeiner
Trvanie projektu: 1.2.2012 / 31.3.2014
Evidenčné číslo projektu: 26240220079
Organizácia je koordinátorom projektu: nie
Koordinátor: Axxence Slovakia s.r.o.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: ASFEU: 394242 €

Dosiahnuté výsledky:

V priebehu roka 2013 sa uskutočnilo dodanie, zabehnutie a pilotná prevádzka 12 prístrojov. Výskumní pracovníci a doktorandi začali prístroje využívať na implementáciu experimentálnych metód pre výskum biokatalytickej produkcie prírodných aróm.

36.) Dobudovanie Centra excelentnosti metód a procesov zelenej chémie (*Completion of Excellence centre for methods and processes of green chemistry*)

Zodpovedný riešiteľ: Mária Mastihubová
Trvanie projektu: 1.1.2010 / 30.9.2013
Evidenčné číslo projektu: 26240120025
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského v Bratislave
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: 0

37.) Centrum excelentnosti pre Glykomiku (*Excellence centre for Glycomics*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 3.9.2010 / 30.6.2014

Evidenčné číslo projektu: OPVaV-2009/4.1/03-SORO
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 6 - Slovensko: 6
Čerpané financie: ASFEU: 35620 €

38.) Centrum excelentnosti pre bielo-zelenú biotechnológiu (*Excellence centre for white-green biotechnology*)

Zodpovedný riešiteľ: Jozef Nahálka
Trvanie projektu: 1.9.2010 / 30.6.2014
Evidenčné číslo projektu: OPVaV-2009/2.1/03-SORO
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: ASFEU: 11336 €

39.) Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií (*Completion of technical infrastructure for research in the field of new biotechnologies*)

Zodpovedný riešiteľ: Vladimír Pätoprstý
Trvanie projektu: 13.12.2013 / 31.1.2015
Evidenčné číslo projektu: 034/2013/1.1/OPVaV
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: 0

Programy: Centrá excelentnosti SAV

40.) Výskum medicínsky významných sacharidových derivátov (*Research on medicinally significant saccharide derivatives*)

Zodpovedný riešiteľ: Slavomír Bystrický
Trvanie projektu: 1.1.2009 / 28.2.2013
Evidenčné číslo projektu: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV: 2228 €

Príloha C

Publikačná činnosť organizácie (zoradená podľa kategórií)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 JOLY, Muriel - DEGUILLAUME, Laurent - VAITILINGOM, Michael - LONG, Yoann - VINATIER, Virginie - MATULOVÁ, Mária - CHAUMERLIAC, Nadine - SANCELME, Martine - DELORT, Anne-Marie. Cloud microorganisms and their potential implication in atmospheric chemistry. In THELIN, Marta - MAHEUX, Julianne. Clouds: Classification, Microbiology and Environmental Effects (Series: Physics Research and Technology. - Hauppauge, NY, USA : Nova Science Publishers, 2013, chapter 1, p. 1-46.
- ABC02 KRONEK, Juraj - PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef. Biocompatibility and immunocompatibility assessment of poly(2-oxazolines). In ANDRADE, Adriano O. - PEREIRA, Adriano Alves - NAVES, Eduardo L. M. - SOARES, Alcimar B. Practical Applications in Biomedical Engineering. - Rijeka, Croatia : InTech, 2012, chapter 11, p. 257-284. ISBN 978-953-51-0924-2.
- ABC03 VALACHOVÁ, Katarína - RAPTA, Peter - SLOVÁKOVÁ, M. - PRIESOLOVÁ, Elena - NAGY, Milan - MISLOVICOVÁ, Danica - DRÁFI, František - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Radical degradation of high molar mass hyaluronan induced by ascorbate plus cupric ions: Testing of arbutin in the function of antioxidant. In ZAIKOV, Gennady E. - VALENTE, Artur J. M. - IORDANSKII, Alexei L. Advances in Kinetics and Mechanism of Chemical Reactions. - Oakville : Apple Academic Press, 2013, p. 1-18. ISBN 978-1-926895-42-0.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 BARBIERIKOVÁ, Zuzana - BELLA, Maroš - SEKERÁKOVÁ, Ľudmila - LIETAVA, Jozef - BOBENICOVÁ, Miroslava - DVORANOVÁ, Dana - MILATA, Viktor - SÁDECKÁ, Jana - TOPOLESKÁ, Dominika - HEIZER, Tomáš - HUDEC, Roman - CZÍMEROVÁ, Adriana - JANTOVÁ, Soňa - BREZOVÁ, Vlasta. Spectroscopic characterization, photoinduced processes and cytotoxic properties of substituted N-ethyl selenadiazoloquinolones. In Journal of Physical Organic Chemistry, 2013, vol. 26, no. 7, p. 565-574. (1.578 - IF2012). (2013 - Current Contents). ISSN 0894-3230.
- ADCA02 BELLA, Maroš - MILATA, Viktor. New approach to synthesis of 5,6- and 7,8-diaminoquinolines. In Beilstein Journal of Organic Chemistry, 2013, vol. 26, p. 565-574. (2.801 - IF2012). (2013 - Current Contents). ISSN 1860-5397.
- ADCA03 BERTÓK, Tomáš - KLUKOVA, Ludmila - SEDIVA, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Ultrasensitive impedimetric lectin biosensors with efficient antifouling properties applied in glycoprofiling of human serum samples. In Analytical Chemistry, 2013, vol. 85, p.7324-7332. (5.695 - IF2012). (2013 - Current Contents). ISSN 0003-2700.
- ADCA04 BERTÓK, Tomáš - GEMEINER, Pavol - MIKULA, Milan - GEMEINER, Peter - TKÁČ, Ján. Ultrasensitive impedimetric lectin based biosensor for glycoproteins containing sialic acid. In Microchimica Acta, 2013, vol. 180, p. 151-159. (3.434 - IF2012). (2013 - Current Contents). ISSN 0026-3672.

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- ADCA06 BERTOK, Tomas - SEDIVA, A. - KATRLIK, Jaroslav - GEMEINER, Pavol - MIKULA, Milan - NOSKO, Martin - TKÁČ, Ján. Label-free detection of glycoproteins by the lectin biosensor down to attomolar level using gold nanoparticles. In *Talanta*, 2013, vol. 108, p. 11-18. (3.498 - IF2012). (2013 - Current Contents). ISSN 0039-9140.
- ADCA07 BIELY, Peter - CZISZÁROVÁ, Mária - UHLIARIKOVÁ, Iveta - AGGER, Jane W. - LI, Xin-Liang - EIJSINK, Vincent G.H. - WESTERENG, Bjorge. Mode of action of acetylxyylan esterases on acetyl glucuronoxylan and acetylated oligosaccharides generated by a GH10endoxylanase. In *Biochimica et Biophysica Acta: General Subjects*, 2013, vol.1830, p. 5075-5086. (3.848 - IF2012). (2013 - Current Contents). ISSN 0304-4165.
- ADCA08 BRISSENET, Yoan - ORTIZ MELLET, Carmen - MORANDAT, Sandrine - GARCIA MORENO, Isabel - DENIAUD, David - MATTHEWS, Susan - VIDAL, Sébastien - ŠESTÁK, Sergej - EL KIRAT, Karim - GOUIN, Sébastien. Topological effects and binding modes operating with multivalent iminosugar-based glycoclusters and mannosidases. In *Journal of the American Chemical Society*, 2013, vol. 135, p. 18427-18435. (10.677 - IF2012). (2013 - Current Contents). ISSN 0002-7863.
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- ADCA10 CAPEK, Peter - MATULOVÁ, Mária - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Molecular heterogeneity of arabinogalactan-protein from *Coffea arabica* instant coffee. In *International Journal of Biological Macromolecules*, 2013, vol. 59, p. 402-407. (2.596 - IF2012). (2013 - Current Contents). ISSN 0141-8130.
- ADCA11 ČERTÍK, Milan - BREIEROVÁ, Emília - OLÁHOVÁ, Monika - ŠAJBIDOR, Ján - MÁROVÁ, Ivana. Effect of selenium on lipid alternations in pigment-forming yeasts. In *Food Science and Biotechnology*, 2013, vol. 22(S), p. 45-51. (0.695 - IF2012). (2013 - Current Contents). ISSN 1226-7708.
- ADCA12 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - BYSTRICKÝ, Slavomír. Comparison of EDC and DMTMM efficiency in glycoconjugate. In *International Journal of Biological Macromolecules*, 2013, vol. 60, p. 325-327. (2.596 - IF2012). (2013 - Current Contents). ISSN 0141-8130.
- ADCA13 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana - GEMEINER, Peter - TKÁČ, Ján. Electrochemistry of bilirubin oxidase and its use in preparation of a low cost enzymatic biofuel cell based on a renewable composite binder chitosan. In *Electrochimica Acta*, 2013, vol. 87, p. 366-374. (3.777 - IF2012). (2013 - Current Contents). ISSN 0013-4686.
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- ADCA23 LU  PAI, Karol - BARBIERIKOV  , Zuzana - MAL  EK, Michal - BU  INSK  , Luk    - STA  KO, Andrej - BELLA, Maro   - MILATA, Viktor - RAPTA, Peter - BREZOV  , Vlasta. Cathodic and photocatalytic reduction of nitroquinolones investigated by in situ EPR/UV-Vis spectroelectrochemistry and EPR spectroscopy. In Current Organic Chemistry, 2013, vol. 17, p. 2427-2439. (3.039 - IF2012). (2013 - Current Contents). ISSN 1385-2728.
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- ADCA25 MAJT  N, Juraj - BOHOV  , Jana - GARCIA-VILLALBA, Rocio - TOMAS-BARBERAN, F.A. - MADAKOVA, Zuzana - MAJT  N, Tom    - MAJT  N, Viktor - KLAUDINY, Jaroslav. Fir honeydew honey flavonoids inhibit TNF-alfa-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. (2.708 - IF2012). (2013 - Current Contents). ISSN 0340-3696.
- ADCA26 MASTIHUBOV  , M  ria - MASTIHUBA, Vladim  r. Donor specificity and regioselectivity in Lipolase mediated acylations of methyl alfa-D-glucopyranoside by vinyl esters of phenolic acids and their analogues. In Bioorganic & Medicinal

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- ADCA29 NEMČOVIČOVÁ, Ivana - ŠESTÁK, Sergej - RENDIČ, Dubravko - PLŠKOVÁ, Margita - MUCHA, Ján - WILSON, Iain B.H. Characterisation of class I and II alfa-mannosidases from Drosophila melanogaster. In Glycoconjugate Journal, 2013, vol. 30, p. 899-909. (1.882 - IF2012). (2013 - Current Contents). ISSN 0282-0080.
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- ADDA09 HROMÁDKOVÁ, Zdenka - HIRSCH, Ján - EBRINGEROVÁ, Anna. Chemical evaluation of *Fallopia* species leaves and antioxidant properties of their non-cellulosic polysaccharides. In *Chemical Papers*, 2010, vol. 64, p. 663-672. (0.791 - IF2009). (2010 - Current Contents). ISSN 0366-6352.

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- ADDA10 JÚDOVÁ, J. - KLAUDINY, Jaroslav - ŠIMŮTH, Jozef. Preparation of recombinant most abundant protein MRJP of royal jelly. In *Biologia*, 1998, vol. 53, s. 777-784. ISSN 1335-6372.
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2. [1.1] *Milkova, V (Milkova, Viktoria); Kamburova, K (Kamburova, Kamelia); Cameron, R (Cameron, Randall); Radeva, T (Radeva, Tsetska) In: BIOMACROMOLECULES Volume: 13 Issue: 1 Pages: 138-145, WOS*
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ADDB Vedecké práce v domácich karentovaných časopisoch neimpaktovaných

- ADDB01 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. II. Expimerization of D-glucose and D-mannose. In Chemické zvesti, 1972, vol. 26, p. 183-186. ISSN 0366-6352.

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ADEA Vedecké práce v zahraničných nekarentovaných časopisoch impaktovaných

- ADEA01 FORANO, E. - DELORT, A.-M. - MATULOVÁ, Mária. Carbohydrate metabolism in Fibrobacter succinogenes: What NMR tell us. In Microbial Ecology in Health and Disease, 2008, vol. 20, p. 94-102. ISSN 0891-060X.

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ADEB Vedecké práce v zahraničných nekarentovaných časopisoch neimpaktovaných

- ADEB01 MOJUMDAR, S.C. - CAPEK, Ignác - CAPEK, Peter - FIALOVÁ, Lenka - BEREK, Dušan. Preparation of composite nanoparticles on the base of starch. In Research Journal of Chemistry and Environment, 2007, vol. 11, p. 5-12.

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2. [1.1] Medeiros, AO (Medeiros, Adriana O.); Missagia, BS (Missagia, Beatriz S.); Brandao, LR (Brandao, Luciana R.); Callisto, M (Callisto, Marcos); Barbosa, FAR

- (Barbosa, Francisco A. R.); Rosa, CA (Rosa, Carlos A.) In: *BRAZILIAN JOURNAL OF MICROBIOLOGY* Volume: 43 Issue: 4 Pages: 1582-1594, WOS
- ADEB03 ŠROBÁROVÁ, Antónia - KOGAN, Grigorij - EGED, Štefan. Yeast polysaccharide affects fusaric acid content in maize root rot. In *Chemistry & Biodiversity*, 2005, vol. 2, no. 12, p. 1685-1690. ISSN 1612-1872.
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- ADEB04 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Killer activity of yeasts isolated from natural environments against some medically important *Candida* species. In *Polish Journal of Microbiology*, 2007, vol. 56, p. 39-43. ISSN 1733-1331 (Print).
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ADFB Vedecké práce v domácich nekarentovaných časopisoch neimpaktovaných

- ADFB01 DŘÍMAL, Ján - KNEZL, Vladimír - NAVAROVÁ, Jana - NEDELČEVOVÁ, Jana - PAULOVÍČOVÁ, Ema - SOTNÍKOVÁ, Ružena - ŠNIRC, Vladimír - DŘÍMAL, Daniel. Role of inflammatory cytokines and chemoattractants in the rat model of streptozotocin-induced diabetic heart failure. In *Endocrine Regulations*, 2008, vol. 42, p. 129-135. ISSN 1210-0668.
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2. [1.1] CHOUGALA, M.B. - BHASKAR, J.J. - RAJAN, M.G.R. - SALIMATH, P.V. Effect of curcumin and quercetin on lysosomal enzyme activities in streptozotocin-induced diabetic rats. In *CLINICAL NUTRITION*. ISSN 0261-5614, 2012, vol. 31, no. 5, p. 749-755, WOS
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5. [1.1] GUO, Z. - ZHANG, R. - LI, J. - XU, G. Effect of telmisartan on the expression of adiponectin receptors and nicotinamide adenine dinucleotide phosphate oxidase in the heart and aorta in type 2 diabetic rats. In *CARDIOVASCULAR DIABETOLOGY*. ISSN 1475-2840, 2012, 11, art. no. 94, doi:10.1186/1475-2840-11-94, WOS
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Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Miloš Hricovíni, PhD.

Názov semestr. predmetu: Rezonančná spektroskopia (4. a 5. ročník Mgr. štúdia)

Počet hodín za semester: 12

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

RNDr. Desana Lišková, PhD.

Názov semestr. predmetu: Regulačné molekuly v raste, morfogénéze a obranných procesoch rastlín (4. ročník študijného odboru odboru Biológia)

Počet hodín za semester: 12

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

doc. Ing. Ladislav Petruš, DrSc.

Názov semestr. predmetu: Carbohydrate chemistry (v angličtine; 5. roč. Mgr. štúdia)

Počet hodín za semester: 24

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

Ing. Igor Tvaroška, DrSc.

Názov semestr. predmetu: Biofyzikálna chémia

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra chémie (5. roč. Mgr. štúdia)

Semestrálne cvičenia:

Ing. Zuzana Firáková

Názov semestr. predmetu: Laboratórne cvičenia z biochémie (1. roč. Bc. štúdia)

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie, Ústav biochémie, výživy a ochrany zdravia

Mgr. Anikó Illésová

Názov semestr. predmetu: Cvičenie z molekulárnej biológie (2. roč. Bc. štúdia)

Počet hodín za semester: 18

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

Ing. Kristína Kováčová

Názov semestr. predmetu: Laboratórne cvičenia z biochémie (1. roč. Bc. štúdia)

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie, Ústav biochémie, výživy a ochrany zdravia

Ing. Zuzana Pakanová

Názov semestr. predmetu: Laboratórne cvičenia z biochémie (1. roč. Bc. štúdia)

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie, Ústav biochémie, výživy a ochrany zdravia

Mgr. Ružena Pilišiová

Názov semestr. predmetu: Základné cvičenia z mikrobiológie (1. roč. Bc. štúdia)

Počet hodín za semester: 32

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

Mgr. Mária Šedivá

Názov semestr. predmetu: Laboratórne cvičenia zo základnej mikrobiológie (1. roč. Bc. štúdia)

Počet hodín za semester: 32

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

Semináre:

Ing. Igor Tvaroška, DrSc.

Názov semestr. predmetu: Počítačové modelovanie molekúl

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra chémie (4. roč. Mgr. štúdia)

Terénne cvičenia:

Individuálne prednášky:

Ing. Renáta Vadkertiová, PhD.

Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova

Počet hodín za semester: 1

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie; 3. roč. Bc. štúdia

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
Austrália					Soňa Garajová	365
					Jaroslav Katrlík	7
					Zuzana Košťálová	12
					Ladislav Petruš	3
Česko			Peter Capek	9	Alžbeta Čížová	4
					Lucia Demovičová	151
					Anna Fleischhackerová	1
					Miloš Hricovíni	2
					Juraj Kóňa	6
					Mária Matulová	2
					Júlia Mičová	365
					Marek Nemčovič	2
					Ema Paulovičová	3
					Lucia Paulovičová	3
					Ružena Pilišiová	3
					Vlasta Sasinková	1
					Ján Tkáč	1
					Igor Tvaroška	31
					Iveta Uhliariková	2
Estónsko					Ladislav Petruš	4
Francúzsko	Mária Matulová	13	Mária Matulová	28	Peter Capek	13
	Iveta Uhliariková	9			Ivan Zelko	92
Holandsko					Renáta Vadkertiová	4
Írsko					Peter Biely	5
Japonsko					Peter Biely	92
Kanada					Erika Lattová	365
					Igor Tvaroška	8
Nemecko					Jaroslav Katrlík	3
					Alena Šedivá	3

					Jana Šefčovičová	3
Poľsko			Peter Capek	21		
Portugalsko	Peter Capek	6				
	Mária Matulová	6				
Rakúsko					Marek Baráth	243
					Zuzana Firáková	1
					Miloš Hricovíni	2
					Juraj Kóňa	1
					Zuzana Pakanová	4
					Vladimír Pätoprstý	1
					Monika Poláková	1
					Eva Stratilová	1
					Ivan Zelko	2
Srbsko	Jaroslav Katrlík	8				
	Alena Šedivá	8				
Španielsko					Igor Tvaroška	3
Taiwan	Ján Hirsch	10				
	Igor Tvaroška	10				
Taliansko					Miloš Hricovíni	4
					Ladislav Petruš	5
USA					Ivana Nemčovičová	181
					Igor Tvaroška	3
Veľká Británia					Miloš Hricovíni	4
Počet vyslaní spolu	8	70	3	58	45	2012

(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
Česko	Ing. Dana Flodrová, PhD.	12	Bc. Jakub Jäger	100	Mgr. Dana Vránová, PhD.	5
	Mgr. Richard Čmelík, PhD.	19	Bc. Martina Vršanská	90		
			Bc. Pavel Damborský	28		
			Ing. Blanka Tobolková	90		
			Ing. Lucie Marková	180		

			Ing. Markéta Valicová	90		
			Kamila Velinská	114		
					RNDr. Pavel Řehulka, PhD.	90
			Zuzana Vlčková	114		
Francúzsko	Dr. Anne-Marie Delort	6				
Srbsko	Mgr. Dragana Robajac	5				
	prof. Olgica Nedić	5				
Počet prijatí spolu	5	47	9	806	1	95

(C) Účast' pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	COST Action TD1203-EMC	Zdenka Hromádková	2
Bulharsko	COST Action CM1101-ECIS	Jaroslav Katrlík	5
Česko	28. PD-DMP	Zuzana Pakanová	3
	3. NPS-ČSBMB	Eva Stratilová	4
	CBM10	Peter Biely	3
		Zuzana Firáková	4
		Mária Vršanská	4
	CESTC2013	Lucia Demovičová	4
	COST Action CM1102-CBM	Ladislav Petruš	3
	Glycoscience2013	Peter Capek	4
		Ján Hirsch	5
		Zdenka Hromádková	4
	MSskola2013	Alžbeta Čížová	5
		Zuzana Firáková	5
		Kristína Kováčová	5
		Marek Nemčovič	5
		Mária Šedivá	5
		Silvia Vlčková	6
	MVP2013	Alena Šedivá	1
	Raman	Vlasta Sasinková	5
	V4 ICAC VII	Ema Paulovičová	3
		Lucia Paulovičová	3
	XIII. MSMBBC	Jaroslav Filip	3
Fínsko	COST Action FP0901-FM	Zdenka Hromádková	4
Francúzsko	COST Action CM1102-WTS	Zuzana Firáková	7
	EPNOE2013	Zuzana Košťálová	6
Grécko	ECCO XXXII	Renáta Vadkertiová	4
Írsko	PROSENSE	Jaroslav Katrlík	3
		Ján Tkáč	3

Izrael	Eurocarb17	Peter Biely	6
		Slavomír Bystrický	14
		Peter Capek	8
		Miloš Hricovíni	7
		Zuzana Hricovíniová	7
		Zdenka Hromádková	8
		Mária Matulová	7
		Igor Tvaroška	7
Malta	COST Action CM1101-JMB	Jaroslav Katrlík	4
Nemecko	COST Action CM1004-MCW	Ladislav Petruš	4
	ICB2013	Marek Bučko	4
Nórsko	COST Action FA0905-AC	Ivan Zelko	5
Poľsko	COST Action CM1106-2WG	Juraj Kóna	4
Portugalsko	COST Action CM1106-1WG	Juraj Kóna	4
Rakúsko	15th ChemDays	Ján Hirsch	5
	COST Action FP0901-RR	Ľubomíra Deáková	2
		Zuzana Košťálová	2
Španielsko	ICIEM2013	Ján Mucha	5
	UBIOCHEM IV	Ladislav Petruš	5
Švédsko	COST Action TD1203-MCW	Zdenka Hromádková	3
Taliansko	7RP-NAD	Igor Tvaroška	3
	Plant Proteomics	Zuzana Vatehová	7
USA	Biosensors & Bioelectronics	Jaroslav Filip	10
Spolu	33	52	249

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

Skratky použité v tabuľke C:

15th ChemDays - 15th Austrian Chemistry Days: Joint Meeting of the Hungarian & Austrian Chemical Societies

28. PD-DMP - 28. PD-DMP - 28. pracovné dni - Dědičné metabolické poruchy

3. NPS-ČSBMB - III. Neformální proteomické setkání

7RP-NAD - Final Meeting/Conference of the 7RP NAD project: Nanoparticles for therapy and diagnosis of Alzheimer disease: Nanoparticles and Nanotechnologies in Medicine 2013 (NPMED 2013)

Biosensors & Bioelectronics - 2nd International Conference and Exhibition on Biosensors & Bioelectronics

CBM10 - 10th Carbohydrate Bioengineering Meeting

CESTC2013 - 12th Central European Symposium on Theoretical Chemistry

COST Action CM1004-MCW - Management Committee Meeting and Workshop of COST Action CM1004

COST Action CM1101-ECIS - 2nd Annual Workshop & 4th Management Committee Meeting of COST Action CM1101 and 27th Conference of the European Colloid and Interface Society (ECIS 2013)

COST Action CM1101-JMB - Joint Meeting of WG 3, WG 4 and WG 5, COST Action CM1101: Synthesis, Kinetics and Catalytic Aspects of Biocolloids

COST Action CM1102-CBM - 3rd Meeting of COST Action CM1102-MultiGlycoNano: Satellite meeting of the 10th Carbohydrate Bioengineering Meeting

COST Action CM1102-WTS - "Structural Glycosciences" Winter Training School COST Action CM1102: MultiGlycoNano

COST Action CM1106-1WG - 1st Working Group Meeting: Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells

COST Action CM1106-2WG - 2nd Working Group Meeting: Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells

COST Action FA0905-AC - 4th Annual Conference of the COST Action FA0905: Essential and Detrimental Elements Entering the Food Chain via Plants

COST Action FP0901-FM - Final Meeting of COST Action FP0901: Biorefinery analytics - Outcomes from FP0901

COST Action FP0901-RR - COST Action FP0901 Meeting: Round Robin follow-up and related methods

COST Action TD1203-EMC - EUBIS Management Committee Meeting of COST Action TD1203
COST Action TD1203-MCW - 2nd Management Committee Meeting and Workshop of COST Action TD1203
ECCO XXXII - XXXII Annual Meeting of the European Culture Collections' Organization. "Biodiversity: Sustainability vs. Regulations"
EPNOE2013 - 3rd International Polysaccharide Conference EPNOE 2013: Polysaccharides and polysaccharide-derived products, from basic science to applications
Eurocarb17 - 17th European Carbohydrate Symposium
Glycoscience2013 - 9th International Conference on Polysaccharides - Glycoscience 2013
ICB2013 - XXI International Conference on Bioencapsulation
ICIEM2013 - 12th International Congress of Inborn Errors of Metabolism: Satellite Symposium: 1st World Conference on Congenital Disorders of Glycosylation for Families and Professionals
MSkola2013 - 14. Škola hmotnostní spektrometrie
MVP2013 - XV. Konference mladých vědeckých pracovníků s mezinárodní účastí
Plant Proteomics - School of Plant Proteomics
PROSENSE - Workshop and Supervisory Board Meeting - project PROSENSE (FP7-PEOPLE-2012-ITN)
Raman - Raman - Kurz: Ramanova spektroskopie a mikrospektroskopie
UBIOCHEM IV - 4th International Workshop of COST Action CM0903
V4 ICAC VII - V4 ICAC VII - V4 International Conference Analytical Cytometry VII
XIII. MSMBBC - XIII. MSMBBC - XIII. Mezioborové setkání mladých biologů, biochemiků a chemiků