

**Chemický ústav
Slovenskej akadémie vied**



**SPRÁVA O ČINNOSTI
ZA ROK 2014**

**Bratislava
január 2015**

Obsah osnovy Správy o činnosti Chemického ústavu SAV za rok 2014

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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.

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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	138	53	85	7	25	129	112,96	65,03
Vedeckí pracovníci	74	35	39	4	15	66	56,75	54,17
Odborní pracovníci VŠ	21	5	16	1	8	21	16,98	10,86
Odborní pracovníci ÚS	32	6	26	2	2	31	29,81	0
Ostatní pracovníci	11	7	4	0	0	11	9,42	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2014 (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 31.12.2014 (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 31.12.2014)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	10	25	1	2	10	17	8
Ženy	2	37	0	0	3	17	19

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	3	7	0	3	4	6	6
Ženy	9	10	1	3	2	3	10	3	3

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2014

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	52,2	51,1	51,9
Ženy	47,2	45,7	45,4
Spolu	49,1	48,2	48,2

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

V roku 2014 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 Počet domácich projektov riešených v roku 2014

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2014 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Vedecké projekty, ktoré boli r. 2014 financované VEGA	16	3	143880	143880	30449
2. Projekty, ktoré boli r. 2014 financované APVV	5	8	129199	129199	42702
3. Projekty OP ŠF	3	1	276891	276891	42687
4. Projekty centier excelentnosti SAV	0	0	-	-	-
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

Tabuľka 2b Počet návrhov domácich projektov podaných v roku 2014

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2014	-	10	6
2. Projekty výziev OP ŠF podané r. 2014	Bratislava	-	-
	Regióny	-	-

2.2. Medzinárodné projekty**2.2.1. Medzinárodné projekty riešené v roku 2014**

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2014

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2014 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Projekty 7. Rámcového programu EÚ	1	3	150789	150789	127497
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	-	-	1200
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	2	0	4700	4700	-
4. Bilaterálne projekty	2	1	22000	22000	12500
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTs, APVV,...)	1	11	21018	21018	48819
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	1	-	-	132448

*A - organizácia je nositeľom projektu**B - organizácia sa zmluvne podieľa na riešení projektu***2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2014**

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2014

	A	B
Počet podaných projektov v 7. RP EÚ	0	0
Počet podaných projektov Horizont 2020	0	6

*A - organizácia je nositeľom projektu**B - organizácia sa zmluvne podieľa na riešení projektu**Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.*

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

Finančné prostriedky získané zo štrukturálnych fondov EÚ v ďalších výzvach hodlá CHÚ SAV využiť najmä na:

- obnovu zastaralého prístrojového vybavenia Realizačného oddelenia a rekonštrukciu v jeho halách a laboratóriách;
- repasáciu 400 MHz a 600 MHz NMR prístrojov Varian na prístroje s konzolou Bruker a zakúpenie nového NMR (700 MHz alebo vyššie) prístroja typu Bruker (nakoľko firma Agilent, ktorá prevzala firmu Varian oznámila, že v ďalšom období už nebude zabezpečovať servisné služby na NMR prístroje typu Varian, je vážne ohrozená prevádzka týchto prístrojov; navyše, tieto prístroje sú značne poruchové a ich opravy sú pre ústav časovo ale najmä finančne veľmi náročné).

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok)

2.3.1. Základný výskum

Optimalizácia prípravy enzymatických biokatód (Filip, Tkáč)

Katodické reakcie t.j. redukcia kyslíka pri príprave biopalivových článkov sú zraniteľným miestom ich konštrukcie, pretože na prípravu katód sa využívajú ušľachtilé kovy, ktoré značne predražujú ich konštrukciu, alebo využívané enzýmy poskytujú len nízke prúdové hustoty. Preto je značný záujem o optimalizáciu prípravy enzymových katód, ktoré by nahrádzali ušľachtilé kovy, zároveň by však poskytovali prúdové hustoty s využitím kovov. Na tento účel sa ako najperspektívnejší enzým hodí bilirubín oxidáza, ktorej bioelektrochemické vlastnosti boli v našej práci systematicky študované. Projekty APVV-0282-11 a VEGA 1/0229/12 (**Chemický ústav SAV**).

FILIP, Jaroslav - TKÁČ, Ján. Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. In *Electrochemistry Communications*, 2014, vol. 49, p. 70-74. (4.287 - IF2013). (2015 - Current Contents). ISSN 1388-2481. (ADCA)

FILIP, Jaroslav - TKÁČ, Ján. Is graphene worth using in biofuel cells? *Electrochimica Acta*, 2014, vol. 136, p. 340-354. (4.086 - IF2013). (2014 - Current Contents). ISSN 0013-4686. (ADCA)

FILIP, Jaroslav - TKÁČ, Ján. The pH dependence of the cathodic peak potential of the active sites in bilirubin oxidase. In *Bioelectrochemistry*, 2014, vol. 96, p. 14-20. (3.870 - IF2012). (2014 - Current Contents). ISSN 1567-5394. (ADCA)

FILIP, Jaroslav - MONOŠÍK, Rastislav - TKÁČ, Ján. Poly(lactic acid)-based nanocomposite for construction of efficient bilirubin oxidase-based biocathodes and stable biofuel cells. In *International Journal of Electrochemical Science*, 2014, vol. 9, p. 2491-2506. (1.956 - IF2013). (2014 - Current Contents). ISSN 1452-3981. (ADCA)

FILIP, Jaroslav - TKÁČ, Ján. Enzymové biopalivové články. In *Chemické listy*, 2014, vol. 108, p. 442-450. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770. (ADCA)

2.3.2. Aplikačný typ

Imobilizácia a charakterizácia celobunkových Baeyer-Villigerových monooxygenáz pre produkciu chemických špecialít (Bučko, Gemeiner, Schenk Mayerová)

V spolupráci s FCHPT STU bola vyvinutá originálna imobilizácia buniek *Escherichia coli* s nadprodukovaným enzýmom monooxygenázou cyklopentanónu. Imobilizácia v

polyvinylalkoholových (PVA) časticiach ako zavedená priemyselná technika má veľký potenciál na priemyselné využitie rekombinantných celobunkových biokatalyzátorov na báze Baeyer-Villigerových monooxygenáz (BVMO) na produkciu bioaktívnych látok a potenciálne nových liečiv. Zároveň bola v spolupráci s viacerými špičkovými pracoviskami publikovaná štúdia ohľadom originálnej charakterizácie fyzikálnych a biokatalytických vlastností PVA častíc v porovnaní s polyelektrolytovými (PEC) časticami s imobilizovanými bunkami *E. coli* s BVMO. Výsledky štúdie potvrdzujú vysoký potenciál PVA častíc pre priemyselné zhodnotenie celobunkových BVMO a taktiež využiteľnosť PEC kapsúl ako štandardnej a vysokodefinovanej laboratórnej techniky na efektívny výskum priemyselných biokatalyzátorov. Projekty VEGA 1/0229/12 a APVV-0302-10 (**Chemický ústav SAV**).

REBROŠ, Martin - LIPTÁK, Lukáš - ROSENBERG, Michal - BUČKO, Marek - GEMEINER, Peter. Biocatalysis with *Escherichia coli* overexpressing cyclopentanone monooxygenase immobilized in polyvinyl alcohol gel. In *Letters in Applied Microbiology*, 2014, vol. 58, p. 556-563. (1.749 - IF2013). (2014 - Current Contents). ISSN 1472-765X. (ADCA)

SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - TRELOVÁ, Dušana - LACÍK, Igor - CHORVÁT, Dušan, Jr. - AČAI, Pavel - POLAKOVIČ, Milan - LIPTÁK, Lukáš - REBROŠ, Martin - ROSENBERG, Michal - ŠTEFUCA, Vladimír - NEDĚLA, Vilém - TIHLAŘÍKOVÁ, Eva. Physical and bioengineering properties of polyvinyl alcohol lens-shaped particles versus spherical polyelectrolyte complex microcapsules as immobilisation matrices for a whole-cell Baeyer–Villiger monooxygenase. In *Applied Biochemistry and Biotechnology*, vol. 174, p. 1834-1849. (1.687 - IF2013). (2014 - Current Contents). ISSN 0273-2289. (ADCA)

2.3.3. Medzinárodné vedecké projekty

NMR štúdium štruktúry biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody a arktického snehu (Matulová, Husárová, Capek)

Zistilo sa, že baktéria *Bacillus* sp. 3B6, izolovaná z oblačnej vody je schopná metabolizovať sacharidy zvyčajne prítomné v atmosfére v organických aerosoloch a produkovať exopolymérne zlúčeniny (EPSs: α -1,6- α -galaktán a parciálne acetylovaný polyetylénglykol). Tieto poznatky poukazujú jednak na to, že produkcia EPSs môže pomôcť baktérii prežiť v nehostinných podmienkach v atmosfére, ale aj na to, že EPSs môžu zohrať dôležitú úlohu v chémii a mikrofyzike atmosféry a ovplyvniť tak tvorbu atmosférických zrážok. Projekt MAD SAV-CNRS č. 3 (**Chemický ústav SAV**).

MATULOVÁ, Mária - HUSÁROVÁ, Slavomíra - CAPEK, Peter - SANCELME, Martine - DELORT, Anne-Marie. Biotransformation of various saccharides and production of exopolymeric substances by cloud-borne *Bacillus* sp. 3B6. In *Environmental Science & Technology*, 2014, vol. 48, p. 14238-14247. (5.481 - IF2013). (2014 - Current Contents). ISSN 0013-936X. (ADCA)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2014/ doplňky z r. 2013	B Počet v r. 2014/ doplňky z r. 2013	C Počet v r. 2014/ doplňky z r. 2013
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)	3 / 0	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 Connect (CCC) (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, Bddb)	61 / 0	0 / 0	0 / 0
10. Vedecké a odborné práce v časopisoch neevidovaných v CCC (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	4 / 0	0 / 0	0 / 0
11. Vedecké a odborné práce v zborníkoch vydaných tlačou alebo na CD			
a/ recenzované práce a publikované pozvané príspevky (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED)	7 / 0	0 / 0	0 / 0
b/ nerecenzované práce (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE,	16 / 0	0 / 0	0 / 0

BEF, CEC, CED)			
12. Vydané periodiká evidované v CCC	1	0	0
13. Ostatné vydané periodiká	0	0	0
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	3/0	0/0	0/0
15. Vedecké práce uverejnené na internete (GHG)	1 / 0	0 / 0	0 / 0
16. Preklady vedeckých a odborných textov (EAJ)	0 / 0	0 / 0	0 / 0
17. Heslá v <i>Encyklopédii Beliana</i> a iných encyklopédiách a terminologických slovníkoch (BDA, BDB)	0 / 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...“)

Tabuľka 2f Ohlasy

OHLASY	A Počet v r. 2013/ doplnky z r. 2012	B Počet v r. 2013/ doplnky z r. 2012
Citácie vo WoS (1.1, 2.1)	1477 / 2	2 / 0
Citácie v SCOPUS (1.2, 2.2)	304 / 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)	5 / 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

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

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	146 / 0
Prednášky a vývesky na domácich vedeckých podujatiach	22 / 0

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BIELY, Peter - VRŠANSKÁ, Mária. Diverse biotechnological potential of *Aureobasidium pullulans*. In *41st Annual Conference on Yeast*, May 20-23, 2014, Smolenice, Slovakia. (vyžiadaná

prednáška - Dr. Biely)

Abstract published: In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). *Program and Abstracts: 41st Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia*. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014, L9, p. 23. ISSN 1336-4839. (AFFA)

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KLAUDINY, Jaroslav. Má materská kašička potenciál pôsobiť proti moru včelieho plodu? In *XIX. Konferencie zlepšovateľů a vynálezců ve včelařství, 26.-28.09.2014, Ostrava, Česká republika*.

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PETRUŠ, Ladislav - FILIPOVÁ, Alexandra - LATTOVÁ, Erika - PÄTOPRSTÝ, Vladimír - PETRUŠOVÁ, Mária - PRIBULOVÁ, Božena - SMRTIČOVÁ, Hana - VALENT, Ivan - VOJTECH, Michal. Ring closure of alditol nitroalkenes as a way to thermodynamically less stable glycosyl nitromethanes for sugar mimetics synthesis. In *13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia*. (vyžiadaná prednáška - Dr. Petruš)

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Abstract published: In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). *Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia*. Bratislava: Institute of Chemistry SAS, 2014. IL2, p. 40. ISBN 978-80-971665-0-2. ISSN 1339-7036. (AFFA)

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

PILIŠIOVÁ, Ružena - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - YASHUNSKY, D. V. - KARELIN, A.A. - TSVETKOV, Y.E. - NIFANTIEV, N.E. Immuno-characteristics of synthetic gluco- and mannoooligosaccharide antigens of pathogenic *Candida* sp. In *Miniconference of PhD. Students 2014, 20.6.2014, Bratislava*. (vyžiadaná prednáška - Dr. Pilišiová).

Abstract published: In *Abstract Booklet: Miniconference of PhD. Students 2014, 20.6.2014, Bratislava*. Bratislava: Institute of Experimental Pharmacology and Toxicology SAS, 2014. (AFFB)

PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia. Použitie prietokovej cytometrie pre evaluáciu imunofluorescencie in situ. In *Užívateľské stretnutie Beckman Coulter, 8.-9.6.2014, Vyhne*.

(vyžiadaná prednáška: Dr. Paulovičová E.)

SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - TIBENSKÁ, Elena - MAJER, Ivan - TEDLOVÁ, Eva - NOVOSADOVÁ, Helena. Plesne a najnovšie pohľady na etiológiu sarkoidózy. Analýza antimykotických protilátok. In *XII. Martinské dni imunológie*, 9.-11.4.2014, Martin. (vyžiadaná prednáška: Dr. Paulovičová L.)

Abstract published: In *Klinická imunológia a alergológia*: XII. Martinské dni imunológie, Martin, 9.-11.4.2014, 2014, vol. 24, p. 3. ISSN 13350013. (AFFB)

SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - TIBENSKÁ, Elena - SZABOOVÁ, K. - MAJER, Ivan - NOVOSADOVÁ, Helena - PAULOVÍČOVÁ, Ema - TEDLOVÁ, Eva - BUC, Milan. TREM receptory v BAL pri sarkoidóze a iných pľúcnych chorobách. Je možné ich využitie v diagnostike pľúcnej sarkoidózy? In *XII. Martinské dni imunológie*, 9.-11.4.2014, Martin. (vyžiadaná prednáška: Dr. Paulovičová E.)

Abstract published: In *Klinická imunológia a alergológia*: XII. Martinské dni imunológie, Martin, 9.-11.4.2014, 2014, vol. 24, p. 3. ISSN 13350013. (AFFB)

VATEHOVÁ, Zuzana. Separácia monosacharidov pomocou HPAEC-PAD. In *Thermo Fisher DIONEX DAY - 2014*, 13.11.2014, Bratislava.

VLČKOVÁ, Silvia. HRMS vo vybraných aplikáciách. In *Seminár Thermo Scientific a Pragolab: Novinky nielen v hmotnostnej spektrometrii*, 20.6.2014, Bratislava.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

BIELY, Peter. Novel fungal endoxylanases in *Trichoderma reesei*. In *Seminar at the Agricultural University of Tokyo*, Tokyo, Japan, November 7, 2014.

BIELY, Peter. Recent progress in understanding mode of action of hemicellulolytic deacetylases. In *Seminar at the Bioengineering Department, University of Ramon Llull, Barcelona, Spain*, April 10, 2014.

BIELY, Peter. Microbial hemicellulolytic enzymes: Properties and applications. In *Seminar at the University of Pretoria, Pretoria, South Africa*, March 7, 2014.

BIELY, Peter. Recent progress in understanding mode of action of hemicellulolytic deacetylases. In *Seminar at the Department of Biochemistry, University of Cambridge, Cambridge, United Kingdom*, June 5, 2014.

KATRLÍK, Jaroslav. Modern analytical tools for glycoprofiling based on lectin biochips and biosensors and their biological and biomedical applications. In *Seminar at the Università degli Studi di Bari Aldo Moro, Bari, Italy*, January 9, 2014.

MATULOVÁ, Mária. Strategies in polysaccharide structures elucidation. In *2014 Ecole Doctorale des Sciences Fondamentales Université Blaise Pascal, U.F.R.: Science et Technologies, Programme EDSF Module Chimie (2013-2014), Clermont-Ferrand, France*, June 13, 2014.

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 2014

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2014 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 2h Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Breierová Emília	VEGA	2
Klaudiny Jaroslav	VEGA	1
Mastihuba Vladimír	VEGA	1
Matulová Mária	VEGA	1
Šimkovic Ivan	VEGA	1
Vadkertiová Renáta	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Iné informácie k vedeckej činnosti

Z celkového počtu 65 vedeckých prác v časopisoch je 62 publikovaných v periodikách evidovaných vo WOS a Scopus (z toho 61 v Current Contents), pričom na 39 % z týchto prác sú autormi len pracovníci ústavu, 22 % je publikovaných v spolupráci s domácimi a 39 % so zahraničnými spoluautormi.

Impakt faktor periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.196 do 5.481 (v 22 prípadoch IF presahuje hodnotu 3.000), pričom jeho priemerná hodnota je 2.408, čo spolu s úhrnným počtom 2360 citácií (z toho 2327 vo WOS a SCOPUS) možno považovať za cenný kvalitatívny ukazovateľ.

Z celkového počtu publikácií (karentované a nekarentované), ktorý je taký istý ako v minulom roku (65), významne (o 10) vzrástol počet karentovaných (51 versus 61), pričom počet nekarentovaných publikácií (4) naopak poklesol o 10. Pokles u nekarentovaných do určitej miery spôsobila nadmerná administratívna záťaž mnohých vedeckých pracovníkov v súvislosti s implementáciou viacerých projektov OP ŠF a prípravou ďalších, čo znížilo ich kapacitu na vedeckú prácu a publikačnú aktivitu. Priemerný impakt faktor časopisov poklesol v porovnaní s rokom 2013 z 3.176 na 2.408, avšak aj táto hodnota vo väčšine prípadov presahuje (alebo je blízka) hodnoty mediánu impakt faktora pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.118 pre Chemistry Organic, 2.861 pre Biochemistry & Molecular

Biology, 1.517 pre Polymer Science, 2.424 pre Microbiology, 2.106 pre Biotechnology & Applied Microbiology a 2.174 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác. Celkový počet citácií oproti vlašajšku vzrástol o 415 (2360 versus 1945), pričom počet citácií vo WOS a SCOPUS vzrástol o 410 (2327 versus 1917).

Na tomto mieste treba vysloviť uznanie Predsedníctvu SAV a pracovníckam Ústrednej knižnice SAV, že sa aj v roku 2014 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, SciFinder 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 pochýb, 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 a vyslaných vedeckých pracovníkov svedčí o vysokej medzinárodnej reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií resp. pozvaniami 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 54 projektov - z toho 36 domácich (VEGA - 19, APVV - 13, OP ŠF - 4) a 18 zahraničných (4 projekty 7. RP, 8 projektov COST, 2 projekty v rámci medzivládnych dohôd o VTS, 3 bilaterálne projekty nadväzujúce na MAD a 1 iný projekt, pričom čerpané finančné prostriedky predstavujú sumu cca 1186.8 tisíc €, z čoho je cca 451.1 tisíc € zo zahraničia, 665.9 tisíc € z domácich projektov a 69.8 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 2014 sa dočerpávali finančné prostriedky z projektov OP ŠF (cca 320 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 2014

Forma	Počet k 31.12.2014				Počet ukončených doktorantúr v r. 2014					
	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	7	12	4	2	1	5	0	3	0	1
Interná z iných zdrojov	3	1	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0
Spolu	10	13	4	2	1	5	0	3	0	1
Súhrn	23		6		6		3		1	

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	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2014 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Lucia Achbergerová	interné štúdium hrazené z prostriedkov SAV	9 / 2010	8 / 2014	4.1.22 biochémia	Ing. Jozef Nahálka PhD., Chemický ústav SAV	Prírodovedecká fakulta UK

Ing. Tomáš Bertók	interné štúdium hradené z prostriedkov SAV	9 / 2010	8 / 2014	5.2.25 biotechnológie	Ing. Ján Tkáč DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Zuzana Firáková	interné štúdium hradené z prostriedkov SAV	9 / 2010	8 / 2014	4.1.22 biochémia	Ing. Eva Stratilová PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Kornélia Nemcová	interné štúdium hradené z prostriedkov SAV	4 / 2012	8 / 2014	5.2.25 biotechnológie	Ing. Emília Breierová PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Mgr. Ružena Pilišiová	interné štúdium hradené z prostriedkov SAV	9 / 2010	8 / 2014	4.1.22 biochémia	Ing. Ema Paulovičová CSc., Chemický ústav SAV	Prírodovedecká fakulta UK
Mgr. Anna Slimáková	interné štúdium hradené z prostriedkov SAV	9 / 2010	8 / 2014	4.1.22 biochémia	Ing. Slavomír Bystrický DrSc., Chemický ústav 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	Prírodovedecká fakulta UK
Fyzikálna chémia	fyzikálna chémia	4.1.18	Fakulta chemickej a potravinárskej technológie STU
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 hodnotu alebo vyšší kvalifikačný stupeň
RNDr. Peter Biely, DrSc. (biochémia)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	RNDr. Marek Baráth, PhD. (IIa)
doc. Ing. Vladimír Farkaš, DrSc. (mikrobiológia)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta UK)	Ing. Tomáš Bertók, PhD. (IIb)
Ing. Peter Gemeiner, DrSc. (biotechnológia)	doc. Ing. Ladislav Petruš, DrSc. (Prírodovedecká fakulta UK)	Ing. Zuzana Firáková, PhD. (IIb)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Zuzana Košťálová, PhD. (IIa)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		RNDr. Mária Vršanská, DrSc. (I)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		Mgr. Ivan Zelko, PhD. (IIa)

Ing. Vladimír Mastihuba, PhD. (chémia a technológia poživatín)		Ing. Tomáš Bertók, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Ema Paulovičová, CSc. (mikrobiológia)		Ing. Zuzana Firáková, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		Ing. Peter Kis (Ing., Fakulta chemickej a potravinárskej technológie STU)
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		
RNDr. Mária Vršanská, DrSc. (biochémia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2014

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	6	0	4	0
Celkový počet hodín v r. 2014	70	0	273	0

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

Tabuľka 3g Aktivity 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	13
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	10
4.	Počet školených doktorandov (aj pre iné inštitúcie)	17
5.	Počet oponovaných dizertačných a habilitačných prác	8
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	6
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	5
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	6
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	3

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 2014 sa na CHÚ SAV celkom školilo 33 doktorandov denného štúdia, z toho 6 novoprijatých. 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. Dlhodobo 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 škooliteľov. 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 2014 úspešne obhájilo doktorandskú dizertačnú prácu 6 doktorandov. Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2014, sa dá predpokladať, že v roku 2015 by mali doktorandskú dizertačnú prácu obhajovať 5 doktorandi.

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

Doktorandi a mladí vedeckí pracovníci sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Ocenit' treba najmä ich aktivity počas Dňa otvorených dverí na ústave, ktorý sa pravidelne koná každý rok v novembri. Viacerí sa aktívne zapájajú aj do pedagogickej 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). Za študijné a vedecké výsledky získali viacerí významné ocenenia (napr. T. Bertók: Cena Prezidenta SR; Top študentská osobnosť Slovenska šk. r. 2013/2014 - absolútny víťaz; Cena Rektora STU; J. Filip: 1. miesto v súťaži mladých vedeckých pracovníkov SAV do 35 rokov).

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2014 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Vzdelávací seminár „Aplikácia lektínov v rôznom formáte analýzy pre glykoproteomiku“, Bratislava, Slovensko, 61 účastníkov, 23.01.-24.01.2014

Workshop bol organizovaný v rámci projektu PROSENSE (Cancer Diagnostics: Parallel Sensing of Prostate Cancer Biomarkers) pre partnerov a študentov z 15 európskych inštitúcií (University of Bath, UK; Cardiff University, UK; Chemický ústav SAV; Instituto de Engenharia de Sistemas e Computadores INESC, Portugalsko; Dublin City University, Írsko; Applied Enzyme Technology, Ltd., UK; École polytechnique fédérale de Lausanne EPFL, Švajčiarsko; University of Applied Sciences Kaiserslautern, Nemecko; Xeptagen SpA, Taliansko; Euroimmun AG, Nemecko; University Hospital of Wales, UK; University Hospitals Bristol, UK; University of the West of England, UK; Bristol Urological Institute, UK a Royal United Hospital Bath, UK) zapojených do projektu, ako aj pre ďalších záujemcov.

PROSENSE je projektom 7. RP EÚ "Marie Curie Initial Training Networks", ktorého cieľom je vyškoliť mladých vedcov v interdisciplinárnej oblasti vývoja nových diagnostických metód pre

rakovinu prostaty. Za Chemický ústav SAV sa seminára aktívne zúčastnili Ing. Ján Tkáč, DrSc., Ing. Jaroslav Katrlík, PhD. a Ing. Vladimír Pätoprstý, PhD. spolu s doktorandami Ing. Štefanom Belickým a Ing. Pavlom Damborským zapojenými do projektu, ako aj ďalší doktorandi a mladí vedeckí pracovníci z CHÚ SAV. Seminár sa skladal z cyklu prednášok a z praktických cvičení v laboratóriách Chemického ústavu SAV. Prvý deň seminára odznelo sedem prednášok (prof. Paleček z Biofyzikálneho ústavu AV ČR, Dr. Pilarik z Max Planck Institute for the Science of Light, Dr. Adam z Agronomickej fakulty Mendelovej univerzity, prof. Babál z Lekárskej fakulty UK, Dr. Tkáč, Dr. Katrlík a Dr. Pätoprstý z CHÚ SAV) venovaných vývoju a použitiu moderných techník pre glykomiku a analýzu biomarkerov. V rámci laboratórnych workshopov sa účastníci zamerali na prácu so špičkovými analytickými technikami (proteínové a lektínové microarray, povrchová plazmónová rezonancia, elektrochemická impedančná spektroskopia, hmotnostná spektroskopia a mikroskopia atomárnych síl) a ich aplikáciám v oblasti glykoprofilovania a výskumu biomarkerov. Počas druhého dňa seminára prezentovali mladí vedci z európskych inštitúcií svoje doterajšie výsledky získané v rámci riešenia projektu PROSENSE. Zo 61 účastníkov bolo 31 zahraničných.

41. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 76 účastníkov, 20.05.-23.05.2014

Vedecký program konferencie bol rozdelený do troch sekcií: Yeast biotechnology, Molecular and Cell Biology of the Yeasts a Medical Mycology. Na začiatku konferencie predstavitelia Československej spoločnosti mikrobiologickej a Komisie pre kvasinky odovzdali prof. Dr. M. Sipiczkému, DrSc. (Maďarsko) Patočkovu medailu. Úvodná prednáška prof. Sipiczkého na tému "Diverse pools of rRNA genes in *Metschnikowia* species: diversity in regions that determine hairpin-loop structures and evolution by reticulation" bola venovaná pamiatke RNDr. A. Kockovej-Kratochvílovej, DrSc., zakladateľke Komisie pre kvasinky. Celkovo odznelo 26 prednášok z toho 1 prednáška bola hrazená občianskym združením NATURA a 9 prednášok sponzorovala Komisia pre kvasinky. Prezentovaných bolo 26 plagátových vývesiek. V rámci sekcie „Poster highlights“ odznelo 9 krátkych prednášok mladých vedeckých pracovníkov. Zo 76 účastníkov bolo 52 zahraničných.

13. Bratislavské sympóziu o sacharidoch, Kongresové centrum, Smolenice, 112 účastníkov, 22.06.-26.06.2014

Sympóziu organizoval Chemický ústav SAV v priestoroch kongresového centra SAV v Smoleniciach a zúčastnilo sa ho spolu 112 vedcov z 21 krajín (ČR, Dánsko, Francúzsko, Holandsko, Írsko, Izrael, Japonsko, Kórea, Maďarsko, Mexiko, Nemecko, Poľsko, Rakúsko, Rusko, Srbsko, Taiwan, Taliansko, Ukrajina, USA, Veľká Británia a Slovensko). Konferencia bola zameraná na chémiu a biochémiu sacharidov, najmä na najnovšie pokroky v oblasti výskumu a aplikácie sacharidov a glykokonjugátov pre medicínske, farmaceutické, biotechnologické a potravinárske účely. Najnovšie poznatky v týchto oblastiach boli prezentované formou plenárnych (7), pozvaných (4), orálnych (26), flash (13) a posterových (46) prezentácií. Počet účastníkov: 112, z toho 89 zahraničných

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2015 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

42th Annual Conference on Yeasts/42. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 19.05.-22.05.2015, (Emília Breierová, 02/ 59410241, 02/ 59410262, chememi@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	2	3	8

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)
European Carbohydrate Organization (funkcia: národný reprezentant)
International Carbohydrate Organization (funkcia: národný reprezentant)

Ing. Miloš Hricovíni, PhD.

American Chemical Society (funkcia: člen)

Ing. Zdenka Hromádková, PhD.

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

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 Kooš, 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)

Management Committee FPS COST Action CM1407 (funkcia: národný zástupca)

RNDr. Mária Matulová, DrSc.

American Chemical Society (funkcia: člen)

RNDr. Ján Mucha, CSc.

Steering Committee of the ESF RNP in LEE „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 Komisie pre kvasinky)

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	H2020 / Personalising health and care	10
Petruš Ladislav	COST CMST	21

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) pokračovala spolupráca s Université de Lorraine, Nancy, Francúzsko (Dr. Tibault Sterckeman). V rámci francúzskeho projektu (Réponse du système racinaire et fonctionnement de *Nocca caerulea* en présence de HAP: conséquences pour la phytoextraction en milieux multicontaminés. Odpoveď koreňového systému a fyziológia *Nocca caerulea* v prítomnosti polyaromatických uhľovodíkov - význam pre phytoextrakciu v multikontaminovanom prostredí.) absolvoval Mgr. Ivan Zelko, PhD. v tomto roku 1-ročnú stáž na Université de Lorraine, Francúzsko.

V rámci MVTs (COST CM1101) pokračovala spolupráca (J. Katrlík) s Dr. Georgijom Yordanovom (Faculty of Chemistry and Pharmacy, Sofia University, 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 nadviazala 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 rámci MVTs (COST Action) sa rozvíjala spolupráca s pracoviskom BioLabs, Scuola 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 vznikla jedna spoločná publikácia.

V rámci MVTs (COST Action FA0905) pokračovala spolupráca s pracoviskom Institut National Polytechnique de Lorraine, Nancy, France (Dr. Tibault Sterckeman).

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.

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 vypracovávaniu 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 2008–2014 pribudla ešte významná účasť na nových výzvach OP ŠF OPVaV 2.1. a 4.1. a v roku 2014 aj na výzvach v programe HORIZONT 2020.

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 sídlacimi v budove správcovanej Chemickým ústavom a tiež Kolektívna zmluva so Základnou organizáciou odborového zväzu. V súvislosti s viacerými zmenami v zákonoch NR SR, nariadeniach vlády SR, vyhláškach a pokynoch MZ SR týkajúcich sa ochrany zdravia pri práci s nebezpečnými faktormi boli v roku 2008 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 vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v súčasnosti má ústav 6 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 roku 2014 sa dvaja postdoktorandi uchádzali o fellowship z programu SASPRO pričom jeden uchádzač bol úspešný. 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 3 publikácie a 1 prednáška a 2 postre.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - II. detská klinika LF UK a DFNSp v Bratislave, Oddelenie laboratórnej medicíny, Centrum dedičných metabolických porúch

Začiatok spolupráce: 2011

Zameranie: Biomedicínsky výskum v oblasti diagnostiky zriedkavých metabolických ochorení.

Zhodnotenie: Výsledkom spolupráce sú 3 príspevky na medzinárodných vedeckých konferenciách.

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. Pliesne v etiológii sarkoidózy.

Zhodnotenie: Výsledkom spolupráce sú 3 prednášky a 1 poster.

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 mikrobiológie a virológie

Začiatok spolupráce: 2007

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

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 3 prednášky.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného projektu - Katedra organickej chémie

Začiatok spolupráce: 2008

Zameranie: Syntéza inhibítorov glykozylntransferáz.

Zhodnotenie: Príprava spoločnej publikácie.

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 galaktoglukomannových oligosacharidov vo vývinových procesoch a ochrane rastlín.

Zhodnotenie: Výsledkom spolupráce sú 3 publikácie, 1 kapitola vo vedeckej monografii, 7 príspevkov na zahraničných konferenciách a 2 príspevky na medzinárodnej konferencii organizovanej v SR.

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: Farmaceutická fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra bunkovej a molekulárnej biológie liečiv

Začiatok spolupráce: 2012

Zameranie: Testovanie antimikrobnej aktivity a stanovenie inhibičných aktivít sacharidových derivátov.

Zhodnotenie: Výsledkom spolupráce sú 2 postre, 1 publikácia a 1 pripravovaná publikácia.

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): a) Riešenie spoločných projektov VEGA a APVV; b) Neformálna spolupráca - Ústav biotechnológie a potravinárstva, Oddelenie biochemickej technológie

Začiatok spolupráce: 2006

Zameranie: a) Techniky imobilizácie pre vývoj robustných oxido-redukčných biokatalyzátorov; b) Testovanie antimikrobiálnej aktivity prírodných glykofenolík a ich analógov.

Zhodnotenie: Výsledkom spolupráce sú 2 publikácie výjdené a jedna pripravovaná.

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: Optimalizujú sa podmienky mikrobiálnej produkcie polynenasýtených mastných kyselín.

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

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

Začiatok spolupráce: 2011

Zameranie: a) Analýza nutraceutík a polysacharidových zložiek cereálií; b) Štúdium štruktúry a vlastností biologicky aktívnych sacharidov.

Zhodnotenie: Príprava spoločných publikácií.

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, je inštalovaný v spoločnom laboratóriu FTIR spektroskopie v priestoroch CHÚ SAV a slúži pre potreby výskumu v rámci uvedených inštitúcií, na pedagogické účely ako aj základné servisné merania. V roku 2010 bol spektrometer doplnený o ďalšie príslušenstvo. Spektrometer bol tiež doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť, ktoré umožňujú meranie spektier v rozsahu 700–50 cm⁻¹. CHÚ SAV sa v roku 2014 podieľal na výstupoch združeného pracoviska 3 publikáciami a 2 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 organizácie: 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 v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami,

zvyšovania vedomostného potenciálu v oblasti NMR na univerzitách, pracoviskách SAV a výskumných ústavoch formou výučby na všetkých stupňoch VŠ štúdia, organizovania seminárov, kurzov, letných škôl a pod., mobilít a stáží domácich i zahraničných študentov a vedeckých pracovníkov, expertíznej a poradenskej činnosti. Sieť NC NMR tvoria 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 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 materiálových technológií a environmentu

Začiatok spolupráce: 2007

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

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

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 pracovisko začalo implementovať projekt ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“, v rámci ktorého bolo v priebehu roka 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. €) a pre Centrum excelentnosti sa v roku 2014 obstarali ďalšie špičkové prístroje.

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 pripravovaná publikácia.

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

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta potravinárske a biochemické technológie, Ústav chemie a technológie 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 biotechnológií

Začiatok spolupráce: 2010

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

Zhodnotenie: Výsledkom spolupráce sú 4 príspevky na medzinárodných konferenciách, 2 obhájené Bc. práce a 1 diplomová práca, vedenie 2 ďalších Bc. prác a 1 diplomovej práce a konzultácie PhD. 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 biotechnológií

Začiatok spolupráce: 2006

Zameranie: Vplyv stresu na pigmentotvorné kvasinky

Zhodnotenie: U kvasiniek analyzovali zmeny v produkcii karotenoidných pigmentov, ktoré boli vyvolané rôznymi stresovými faktormi.

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 16 študentov VUT Brno (dĺžka stáží 1-6 mesiacov). Stáže boli v roku 2014 dotované sumou 19512,50 Eur (42918,75 Eur za roky 2013 a 2014).

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 sú 3 prednášky a 3 postre.

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, 3 prednášky a 1 poster.

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 pripravovaná 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; MS analýza glykokonjugátov.

Zhodnotenie: Riešenie štruktúry glykopeptidov; definícia glykoprotéinu krvného séra v diagnostike; 6-mesačný pobyt PhD študentky Z. Pakanovej v laboratóriu prof. Iaina Wilsona (MP-štipendium).

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

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca

Začiatok spolupráce: 2012

Zameranie: Stanovenie inhibičných aktivít sacharidových konjugátov voči alfa-manozidázam, vývoj metodiky.

Zhodnotenie: Výsledkom spolupráce je 1 poster a 1 publikácia.

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: Odpoveď koreňového systému a fyziológie *Noccaea caerulescens* v prítomnosti polyaromatických uhl'ovodíkov - význam pre fytoextrakciu v multikontaminovanom prostredí.

Zhodnotenie: Výsledkom spolupráce je 1 prednáška; dlhodobá zahraničná stáž Mgr. Ivana Zelka, PhD.

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 expresie antimikrobiálneho peptidu defenzínu vo včelstvách

Zhodnotenie: Výsledkom spolupráce je 1 poster a získanie izolátov včelích patogénov.

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 binaftylov a ich analógov.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

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 je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Scuols Superiore Sant'Anna, Pisa, Italia

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

Začiatok spolupráce: 2011

Zameranie: Príjem kadmia, jeho lokalizácia v pletivách a morfogenetické zmeny v rastlinách *Pteris vittata* ako odpoveď na prítomnosť katiónov toxického kovu - význam pre fytoremediácie pôdy kontaminovanej kadmiiom.

Zhodnotenie: Výsledkom spolupráce je spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: University of Bari "Aldo Moro", Bari, Italy

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Faculty of Veterinary Medicine

Začiatok spolupráce: 2012

Zameranie: Aplikácia lektínových microarray pre sledovania špecifickej expresie glykokonjugátov ako markerov funkčného stavu systému na celých živočíšnych bunkách (folikuly, vajíčka).

Zhodnotenie: Prezentácia výsledkov na konferenciách; príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: University of Belgrade, Belgrade, Serbia

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - nadväzujúca na bilaterálny projekt APVV-SK-SRB - Institute for the Application of Nuclear Energy (INEP)

Začiatok spolupráce: 2012

Zameranie: Lektínové microarray biočipy pre charakterizáciu glykánových štruktúr proteínov IGF systému ako nástroj pre výskum, diagnostiku a terapiu kolorektálneho karcinómu.

Zhodnotenie: Prezentácia výsledkov na konferenciách; príprava spoločných publikácií.

Názov univerzity/vysokej školy a fakulty: Université Blaise Pascal, Aubiere, Francúzsko

Druh spolupráce (spoločné pracovisko alebo iné): MAD - Institut de Chimie de Clermont-Ferrand (ICCF)

Začiatok spolupráce: 2013

Zameranie: NMR štúdium štruktúry biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody a arktického snehu.

Zhodnotenie: Analýzy ukázali, že *Pseudomonas* 14b2 tvorí biosurfaktant s glykopeptidovou štruktúrou, *Rhodococcus* 30b2 a *Clavibacter* 63b20 produkovali glykolipid. Výsledkom je 1 spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: INRA, Centre de Recherche de Clermont-Ferrand-Theix, Saint-Genès-Champagnelle, Francúzsko

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - UR454 Unité de Microbiologie

Začiatok spolupráce: 2013

Zameranie: Identifikácii štruktúr exopolymérnych látok produkovaných baktériou *Staphylococcus xylosus*.

Zhodnotenie: Výsledky analýz potvrdili prítomnosť poly-glykozyl-glycerol-fosfátov a polymérnych nesaturovaných mastných kyselín (PUFA) v inkubačnom médiu pri spracovaní mliečnych a mäsových výrobkov; 1 publikácia v štádiu prípravy.

Názov univerzity/vysokej školy a fakulty: Ege University, Engineering Faculty, Izmir, Turkey

Druh spolupráce (spoločné pracovisko alebo iné): Podpísaná dohoda o spolupráci - Food Engineering Department

Začiatok spolupráce: 2014

Zameranie: Extrakcia a identifikácia polysacharidov.

Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: University of Liege, Gembloux Agro-Bio Tech, Belgium

Druh spolupráce (spoločné pracovisko alebo iné): Spolupráca na riešení spoločného projektu - Department of Industrial Biological Chemistry

Začiatok spolupráce: 2013

Zameranie: Využitie mikrovlnnej extrakcie pri izolácii polysacharidov.

Zhodnotenie: Výsledkom spolupráce je 1 poster.

Názov univerzity/vysokej školy a fakulty: N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia

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

Začiatok spolupráce: 2006

Zameranie: Výskum imunomodulačných vlastností synteticky pripravených oligosacharidov in vivo a ex vivo.

Zhodnotenie: Výsledkom spolupráce sú 2 poster a 1 prednáška.

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

V tejto oblasti významné aplikácie výsledkov neboli.

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.

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

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: Dňa 4. marca 2013 Chemický ústav SAV a súkromná spoločnosť Axxence s.r.o. v Bratislave podpísali dokument „Zmluva o spoločnom pracovisku“ vyplývajúcej z realizácie projektu Aplikovaný výskum v oblasti priemyselnej biokatalýzy. Cieľom spoločného pracoviska, ktoré sa nachádza v priestoroch „Axxence Park“ označených ako Hala 1, je poskytovanie komplexnej infraštruktúry pre efektívnejší aplikovaný výskum procesu izolácie prírodných aróm a ich finálnej purifikácie. Súčasťou spoločného pracoviska je zariadenie na vákuovú rektifikáciu poskytujúce vysokoúčinnú separáciu skúmaných látok. Tieto jednotkové operácie sú veľmi náročné, vzhľadom na extrémne nízke pracovné tlaky a tepelnú citlivosť spracúvaných surovín.

Rok založenia: 2013

Zhodnotenie: Úspešne pokračuje riešenie spoločného projektu APVV a projektu ŠF Výskum a vývoj.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Substrátová špecifita xylanázy GH30 z *Erwinia chrysanthemi*

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

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2011

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2014

Objem získaných prostriedkov v bežnom roku (€): 7500

Stručný opis výstupu/výsledku: Študoval sa mechanizmus rozpoznávania substrátu u xylanázy GH30 z *Erwinia chrysanthemi*.

Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje. Zodp. riešiteľ z CHÚ SAV: RNDr. Peter Biely, DrSc.

Názov kontraktu: Diverzita katalytických vlastností xylanáz rodiny GH30

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

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2015

Objem získaných prostriedkov v bežnom roku (€): 7500

Stručný opis výstupu/výsledku: Porovnávali sa katalytické vlastnosti bakteriálnych a fungálnych xylanáz rodiny GH30.

Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje. Zodp. riešiteľ z CHÚ SAV: RNDr. Peter Biely, DrSc.

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 prevádzke Biozávod, Petrova Ves. Odberateľ: Azoter, spol. s r. o., Nové Zámky

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

LC-MS analýza vzoriek. Odberateľ: Fakulta chemickej a potravinárskej technológie STU, Bratislava; finančný prínos: 6172 €

LC-MS analýza vzoriek. Odberateľ: HAMELN rds a.s., Modra; finančný prínos: 570 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: Národná vrtná spoločnosť s.r.o., Bernolákovo; finančný prínos: 576 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: NOVBYT s.r.o., Bratislava; finančný prínos: 419 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: XIMEA s.r.o., Marianka; finančný prínos: 159 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 240 €

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
Ing. Slavomír Bystrický, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Peter Gemeiner, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Miloš Hricovíni, PhD.	Infraštruktúra ESFRI v programe INSTRUCT pri MŠVVaŠ SR	člen
Ing. Miloš Hricovíni, PhD.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
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
RNDr. Mária Matulová, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
doc. Ing. Ladislav Petruš, DrSc.	Porota v projekte "Veda má budúcnosť"	člen
doc. Ing. Ladislav Petruš, DrSc.	Junior Chamber International - Porota na nomináciu ocenenia Študentská osobnosť Slovenska v kategórii Prírodné vedy, chémia	člen

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

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
Ing. Tomáš Bertók, PhD.		TV	Junior Chamber International udeľovala ocenenie Študentská osobnosť roka	TA3: http://www.ta3.com/clanok/1052813/junior-chamber-international-udeľovala-ocenienie-studentska-osobnost-roka.html	17.12.2014
Ing. Tomáš Bertók, PhD.		PB	Sladký život	Týždeň vedy a techniky na Slovensku 2014. Deň otvorených dverí CHÚ SAV	12.11.2014
Ing. Tomáš Bertók, PhD.	Katarína Kováčiková	IN	Študent zo Slovenska vám zistí chorobu ešte predtým, ako sa ukáže	HNonline.sk: http://hn.hnonline.sk/slovensko-119/student-zo-slovenska-vam-zisti-chorobu-este-predtym-ako-sa-ukaze-639065	17.12.2014
Ing. Tomáš Bertók, PhD.	Monika Hucáková (redaktorka)	TV	Študentské osobnosti roka	Správy RTVS: http://www.rtvs.sk/televizia/archiv/1/55089	21.12.2014
RNDr. Peter Biely, DrSc.		TL	41st Annual Conference on Yeasts of the Czech and Slovak Commission on Yeasts, Smolenice, Slovakia, May 20-23, 2014	Yeast Newsletter. Vol. LXIII, No. II, (2014), p. 19-22. ISSN 0513-5222	2014
RNDr. Peter Biely, DrSc.		TL	Čo sú prebiotiká?	Quark. Roč. XX, č. 4, (2014), s. 30-31. ISSN 1335-4000	2014
RNDr. Peter Biely, DrSc.		TL	Kolíska nobelovských laureátov	Správy SAV. Roč. 50, č. 9, (2014), s. 8-9. ISSN 0139- 6307	2014
RNDr. Peter Biely, DrSc.		TL	Probiotiká versus prebiotiká	Správy SAV. Roč. 50, č. 1, (2014), s. 8-9. ISSN 0139- 6307	2014
Ing. Peter Bystrický, PhD.		PB	Využitie hmotnostnej spektrometrie v chémii	Týždeň vedy a techniky na Slovensku 2014. Deň otvorených dverí CHÚ SAV	12.11.2014
Ing. Pavel Damborský	Ing. Štefan Belický	IN	PROSENSE meeting o nových metódach glykoprolácie a diagnostiky rakoviny prostaty na pôde CVTI SR	https://www.vedatechnika.sk/SK/enoviny/DianieNaSlovensku/Stranky/PROSENSE-meeting; Centrálny informačný portál pre Výskum, vývoj a inovácie, MŠVVaŠ SR	20.3.2014

Ing. Jaroslav Filip, PhD.	Ing. Ľudmila Kluková	iné	Týždeň vedy a techniky na Slovensku: výstava Veda netradične - interaktívne vedecké prezentácie	CVTI, Bratislava	10.11.2014
Ing. András Hushegyi	Ing. Ľudmila Kluková, Ing. Dominika Pihíková, RNDr. Alena Šedivá, Ing. Pavel Damborský, Ing. András Hushegyi, Ing. Štefan Belický	iné	Sladké tajomstvo vzniku chorôb	Festival vedy - Európska noc výskumníkov 2014, Stará tržnica - vedecké stánky, Bratislava	26.9.2014
Ing. András Hushegyi	Miriám Šlosárová, Mária Babinská (redaktorka)	RO	Noc výskumníkov	Rozhlas a televízia Slovenska, Rádio Regina, relácia Host' Rádia Regina Bratislava, 19. 9. 2014. http://www.rtv.s.sk/radio/relacie/detail/host-radia-reg	19.9.2014
Ing. Jaroslav Katrlík, PhD.		RO	CHÚ SAV a projekt Prosence	Rozhlas a televízia Slovenska, Rádio Regina Bratislava; rozhovor v Magazíne rádia Regina	19.2.2014
Ing. Vladimír Mastihuba, PhD.		TL	Chemické horizonty - jarný cyklus 2014	ChemZi, Roč. 10, č. 1, p. 26.	2014
Ing. Vladimír Mastihuba, PhD.		TL	Chemické horizonty - jesenný cyklus 2013	ChemZi, Roč. 9, č. 2, p. 292.	2014
Ing. Vladimír Mastihuba, PhD.	Ing. Mária Omastová, DrSc.	TL	VEDA V CENTRE s osobnosťami chémie	ChemZi, Roč. 10, č. 1, p. 26.	2014
doc. Ing. Ladislav Petruš, DrSc.		PB	Biologický význam cukrov a ich výskum na CHÚ SAV	CHÚ SAV - exkurzia študentov PriF UK (II. roč. Bc. štúdia, odbor chémie a biológia)	12.2.2014
doc. Ing. Ladislav Petruš, DrSc.	Ing. Vladimír Pätoprstý, PhD., Ing. Silvia Vlčková, PhDr. Michaela Španková	PB	Projekt	CHÚ SAV - exkurzia študentov stredných škôl; http://www.sav.sk/index.php?lang=sk&charset=&doc=services-news&source_no=20&news_no=5383	19.5.2014
doc. Ing. Ladislav Petruš, DrSc.	Ing. Vladimír Pätoprstý, PhD., Ing. Silvia Vlčková, PhDr. Michaela Španková	PB	Projekt	CHÚ SAV - exkurzia študentov stredných škôl; http://www.sav.sk/index.php?lang=sk&charset=&doc=services-news&source_no=20&news_no=5383	30.5.2014
Mgr. Elena Potocká		PB	Ako enzýmy urýchľujú chemické reakcie	Týždeň vedy a techniky na Slovensku 2014. Deň otvorených dverí CHÚ SAV	12.11.2014

Ing. Eva Stratilová, PhD.		PB	Transglykozylázy bunkových stien	Týždeň vedy a techniky na Slovensku 2014. Deň otvorených dverí CHÚ SAV	12.11.2014
Ing. Ján Tkáč, DrSc.		IN	ELENA - ERC projekt podporujúci špičkový výskum	Scope-eNewsletter o 7. Rámcovom programe EÚ, II/2014	26.11.2014
Ing. Ján Tkáč, DrSc.	Ing. Jaroslav Filip, PhD., Ing. Tomáš Bertók, PhD.	IN	Naši vedci zo SAV si posvietili na cukry, chcú cez ne zistiť choroby	http://www.teraz.sk/veda/veda-tu-a-teraz-glykany-jan-tkac/109204-clanok.html	7.12.2014
Ing. Ján Tkáč, DrSc.	Ing. Tomáš Bertók, PhD., Soňa Juriková (redaktorka)	RO	Ako byť zdravší vďaka biotechnológiám	Rozhlas a televízia Slovenska, Rádio Slovensko, relácia Nočná pyramída. http://www.rtv.s.sk/radio/relacie/detail/nocna-pyramida/archiv?date=26.09.2014	26.9.2014
Ing. Renáta Vadkertiiová, PhD.	Ing. Jana Molnárová, PhD.	PB	Využitie a úschova kvasiniek	Týždeň vedy a techniky na Slovensku 2014. Deň otvorených dverí CHÚ SAV	12.11.2014
Mgr. Zuzana Vatehová, PhD.	Ing. Andrej Chyba	iné	Chémia vlastnými rukami (chemické experimenty)	Týždeň vedy a techniky na Slovensku 2014. Deň otvorených dverí CHÚ SAV	12.11.2014

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédia, 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	9	tlač	7	TV	2
rozhlas	3	internet	4	exkurzie	3
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	3				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Vzdelávací seminár „Aplikácia lektínov v rôznom formáte analýzy pre glykoprofiláciu“	medzinárodná	Bratislava, Slovensko	23.01.-24.01.2014	61
41. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	20.05.-23.05.2014	76

13. Bratislavské sympóziu o sacharidoch	medzinárodná	Kongresové centrum, Smolenice	22.06.-26.06.2014	112
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9.3. Účasť na výstavách

Názov výstavy: 41. medzinárodná poľnohospodárska a potravinárska výstava AGROKOMPLEX 2014

Miesto konania: Agrokomplex Nitra

Dátum: 21.9.2014

Zhodnotenie účasti: Ústav prezentoval kolekciu vzácnych 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. Do súťaže o Zlatý kosák Agrokomplexu ústav prihlásil exponát D-melibióza.

Názov výstavy: TECHFÓRUM 2014 - 2. ročník prezentácie výstupov vysokých škôl a univerzít technického zamerania

Miesto konania: Agrokomplex Nitra

Dátum: 20.5.2014

Zhodnotenie účasti: Na výstave, ktorá sa konala pod záštitou ministra školstva, vedy, výskumu a športu SR ústav prezentoval kolekciu vzácnych 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. Do súťaže o Cenu Techfóra ústav prihlásil technológiu výroby disacharidu D-celobiózy

Názov výstavy: Festival vedy - 8. ročník, Európska noc výskumníkov 2014

Miesto konania: Bratislava

Dátum: 26.9.2014

Zhodnotenie účasti: Chemický ústav SAV na výstave prezentovali doktorandi Ing. Ľudmila Kluková, Ing. Dominika Pihíková, RNDr. Alena Šedivá, Ing. Pavel Damborský, Ing. András Hushegyi a Ing. Štefan Belický vo vedeckom stánku s názvom „Sladké tajomstvo vzniku chorôb“, kde sa účastníci festivalu vedy dozvedeli o možnostiach detekcie a využitia biosenzorov pri včasnej diagnostike ochorení, o praktickom využití biočipov vo výskume biomarkerov, ďalej akú úlohu zohrávajú sacharidy v ľudskom tele a aký je ich význam pri vzniku a priebehu rôznych chorôb. Ďalej mali návštevníci možnosť oboznámiť sa s mikroskopom, biobatériami, a pod. Pripravené boli aj popularizačné pokusy, ukážka jednoduchého biosenzora a zaujímavé otázky.

Názov výstavy: Veda netradične - interaktívne vedecké prezentácie (v rámci Týždňa vedy a techniky na Slovensku)

Miesto konania: CVTI, Bratislava

Dátum: 10.11.2014

Zhodnotenie účasti: Chemický ústav SAV na výstave zastupovali Ing. Jaroslav Filip, PhD. a Ing. Ľudmila Kluková. V interaktívnom stánku pod názvom „Nanomateriály a bioelektrochémia – elektrina zo živých enzýmov a praktická ukážka biobatérie“ si návštevníci mohli pozrieť ako sa získava energia zo živých enzýmov o čom napovedajú nanomateriály a bioelektrochémia.

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	3	1	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: 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 Science: Plant Biophysics and Modeling (funkcia: Review Editor)
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)

Ing. Andrej Chyba

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Desana Lišková, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Anna Malovíková, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen Predsedníctva)

Ing. Mária Mastihubová, PhD.

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

RNDr. Mária Matulová, DrSc.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

doc. Ing. Ladislav Petruš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Mária Petrušová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Potocká

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Vlasta Sasinková

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (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 2014, Chemický ústav SAV usporiadal Deň otvorených dverí CHÚ SAV (12.11.2014), počas ktorého viacerí pracovníci formou prednášok popularizovali svoju vedecko-výskumnú činnosť. Návštevníci mali tiež možnosť prezrieť si vybrané laboratóriá ústavu a 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.

V aule SAV na bratislavskej Patrónke privítali v máji študentov troch bratislavských stredných škôl (19. mája 2014 - 43 druhákov a tretiačov z Gymnázia Ladislava Sáru a Gymnázia Alberta Einsteina a 30. mája 2014 - 19 tretiačov zo Strednej odbornej školy chemickej). Vedecký pracovník Chemického ústavu SAV doc. Ladislav Petruš im v prednáške priblížil priority práce tohto ústavu, jeho výsledky a perspektívy, venoval sa aj tomu, čím by práve toto vedecké pracovisko mohlo byť lákavé pre ich budúcu vedeckú kariéru. Študenti mali možnosť prezrieť si aj laboratóriá ústavu (Dr. Pätoprstý, Ing. Vlčková), ktoré sa pýšia technickým vybavením na svetovej úrovni.

Táto akcia sa uskutočnila v rámci projektu Veda pre budúcnosť, ktorý sa pod záštitou Ministerstva hospodárstva SR a Slovenskej akadémie vied snaží prostredníctvom spolupráce firiem a škôl o to, aby sa zvýšila atraktivita technických a prírodovedných odborov pre žiakov základných a stredných škôl. Cieľom je okrem iného ukázať mladým ľuďom, že kariéra v tejto sfére môže byť pre nich zaujímavá. Partnerom projektu je spoločnosť Bayer a občianske združenie AISIS. Program bol slávnostne zakončený 5. júna záverečnou školskou konferenciou a prezentáciou študentských projektov pred odbornou porotou, zloženou z manažérov spoločnosti Bayer, odborníkov zo vzdelávacej inštitúcie AISIS, o.z., a z členov Slovenskej akadémie vied (doc. Petruš za Chemický ústav SAV). Víťazné projekty boli ocenené finančnou odmenou v celkovej výške 1000 EUR. Navrhované projekty boli predstavené taktiež laickej verejnosti na portáli www.soutez.vedamabudoucnost.cz, kde študenti získavali hodnotenie a odporúčania verejnosti, ako aj iných škôl a partnerov projektu.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25477
z toho	knihy a zviazané periodiká	25477
	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		1
v tom	kúpou	1
	darom	0
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		1

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		17
z toho	odborná literatúra pre dospelých	2
	výpožičky periodík	15
	prezenčné výpožičky	15
MVS iným knižniciam		6
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		3
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

10.3. Používatelia

Tabuľka 10c Užívatelia

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

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	3181

10.5. Iné informácie o knižničnej činnosti

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

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

Ing. Miroslav Koóš, DrSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade 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)
- VK SAV pre chemické vedy (predseda)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudivy, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Koóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Koóš, DrSc.

- Knižničná rada SAV (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.

- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)
- Komisia SAV pre životné prostredie (podpredseda)

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 31.12.2014 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	3811209	2002847	381382	671858	755122
Bežné výdavky	3802850	2002847	378294	666587	755122
v tom:					
mzdy (610)	1397109	1153634	21702	175305	46468
poistné a príspevok do poistovní (620)	503868	400311	16890	74740	11926
tovary a služby (630)	1370334	302640	334819	322367	410508
z toho: časopisy	51705	23564	28141	0	0
VEGA projekty	171728	171728	0	0	0
MVTS projekty	91837	91837	0	180415	0
CE	0	0	0	0	0
vedecká výchova	154162	154162	0	0	0
bežné transfery (640)	531538	146242	4883	0	286218
z toho: štipendiá	146242	146242	0	0	0
transfery partnerom projektov	380413	0	0	0	286218
Kapitálové výdavky	8358	0	3088	5270	0
v tom:					
obstarávanie kapitálových aktív	8358	0	3088	5270	0
kapitálové transfery	0	0	0	0	0
z toho: transfery partnerom projektov	0	0	0	0	0

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2014 spolu	v tom:	
		rozpočtové	z mimoroz p. zdrojov
Príjmy spolu	3731793	3032950	698843
Nedaňové príjmy	2338032	2002847	335185
v tom:			
príjmy z prenájmu	5247	0	5247
príjmy z predaja výrobkov a služieb	329330	0	329330
iné	608	0	608
Granty a transfery (mimo zdroja 111)	1393761	1030103	363658
v tom:			
tuzemské	1030103	1030103	0
z toho: APVV	265040	265040	0
iné	763063	763063	0
zahraničné	363658	0	363658
z toho: projekty rámcového programu EÚ	246019	0	246019
iné	117639	0	117639

13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2014 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 2014: 40 (21 pre CHÚ, 4 pre iné pracoviská v SR a 15 pre zahraničie). Získané kultúry v roku 2014: 147 (130 samostatne izolovaných a 17 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 1434 € a úspora predstavovala 5040 € (630 € za kmene pre CHÚ a 4410 € za izolované a získané kmene).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers* - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS) (IF2012 = 0.879; IF2013 = 1.193). Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav SAV. 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 2014 sumu 168907 €, čo je o vyše 40000 € viac ako vlani. Vľahjší pokles možno pripísať jednak cca dvojmesačnému výpadku produkcie v dôsledku rekonštrukčných prác v budove RO (zateplovanie, 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 9837 €. 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 2014

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Filip Jaroslav

1. Cena v Súťaži mladých vedeckých pracovníkov SAV do 35 rokov

Oceňovateľ: Predsedníctvo SAV

Hirsch Ján

Medaila SAV za podporu vedy

Oceňovateľ: Vedecká rada SAV

Opis: Za celoživotnú vedecko-výskumnú a organizátorskú prácu v rámci SAV.

Matulová Mária

Čestná plaketa SAV Dionýza Ilkoviča za zásluhy vo fyzikálno-chemických vedách

Oceňovateľ: Predsedníctvo SAV

Opis: Za prínosy vo výskume v rámci fyzikálno-chemických vied.

15.1.2. Iné domáce ocenenia

Bertók Tomáš

Celkový víťaz Interaktívnej konferencie mladých vedcov PREVEDA

Oceňovateľ: OZ Preveda

Opis: Za prácu Využitie inštrumentálnych metód v analýze biologicky významných látok.

Bertók Tomáš

Cena BASF Slovakia

Oceňovateľ: BASF SLOVENSKO

Opis: Za prácu Analýza glykoproteínov a glykoprofilácia reálnych vzoriek s využitím nanoštruktúrovaných elektrochemických biosenzorov.

Bertók Tomáš

Cena prezidenta SR

Oceňovateľ: Prezident Slovenskej republiky

Opis: Za úspechy a prínosy vo vedecko-výskumnej činnosti v odbore prírodné vedy, chémia.

Bertók Tomáš

Cena rektora STU

Oceňovateľ: Rektor STU prof. Ing. R. Redhammer, PhD.

Opis: Za vynikajúce plnenie štúdijských povinností počas doktorandského štúdia.

Bertók Tomáš

Študentská osobnosť Slovenska školský rok 2013/2014

Oceňovateľ: Predseda Junior Chamber International, Slovakia

Opis: 1. miesto v kategórii Prírodné vedy, chémia.

Bertók Tomáš

Top študentská osobnosť Slovenska šk.r. 2013/2014 (absolútny víťaz)

Oceňovateľ: Predseda Junior Chamber International, Slovakia

Opis: 1. miesto v rámci všetkých vyhlásených kategórií.

Damborský Pavel

Cena za 2. miesto v posterovej sekcii

Oceňovateľ: Organizačný výbor 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics"

Opis: Za prácu Study of biospecific interactions of prostate cancer biomarkers with antibodies and lectins using surface plasmon resonance.

Potocká Elena

Diplom za 3. miesto v sekcii Organická, bioorganická, farmaceutická chémia, farmakológia a toxikológia

Oceňovateľ: OZ Preveda

Opis: Za poster na Interaktívnej konferencia mladých vedcov (spoluautori: Ing. Mária Mastihubová, PhD. a Ing. Vladimír Mastihuba, PhD.).

Tkáč Ján

Malá medaila Samuela Mikovíniho

Oceňovateľ: Minister školstva, vedy, výskumu a športu SR

Opis: Za prínosy v oblasti vedy a techniky v zahraničí, za úspešné riešenie projektov v 7.

Rámcovom programe, vrátane ERC Starting grantu v oblasti vývoja zariadení na diagnostiku rakoviny a v oblasti bionanotechnológií.

15.2. Medzinárodné ocenenia

Kluková Ľudmila

Cena za 3. miesto v PhD poster sekcii

Oceňovateľ: Organizing Committee of Annual Conference: Frontiers in Material and Life Sciences

Opis: Za prácu Graphene as a promising material for preparation of an ultrasensitive lectin biosensor.

Potocká Elena

Cena za poster - Poster Award

Oceňovateľ: Organizing Committee of the BioTech 2014 and 6th Czech-Swiss Symposium with Exhibition

Opis: Za prácu Enzymatic synthesis of bioactive compounds: glucosylation of tyrosol.

Vatehová Zuzana

FESPB Travel Grant na medzinárodnú konferenciu Plant Biology Europe FESPB/EPSO 2014 Congress

Oceňovateľ: The Federation of European Societies of Plant Biology (FESPB)

Opis: Za prácu Cell wall polysaccharides and toxic metal.

Zelko Ivan

Cena za najlepši poster - Poster Prize

Oceňovateľ: Organizing Committee of the 6th International Conference on Silicon in Agriculture

Opis: Za prácu Silicon effect on growth dynamics, macro and microelements content in cadmium and arsenic treated poplar calli.

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

Informácie o pracovisku sú voľne dostupné na internete (www.chem.sk) ako aj z knižných brožúr vydaných za roky 1953-1993, 1993-1997 a 1998-2002. Začiatkom roka 2015 bude vydaná brožúra k 60. výročiu založenia ústavu, 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. Situáciu komplikuje aj neočakávané viazanie finančných prostriedkov Ministerstvom financií SR a to najmä pri riešení projektov APVV a akcií, ktorých financovanie bolo naplánované dopredu v plnej výške.

Apelujeme na P SAV aby jednalo s MŠVVaŠ SR o pridelení dostatočných finančných prostriedkov na pravidelné vyhlásenie Verejnej 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 bol ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiež došlo k podstatnému zlepšeniu situácie aj v prístrojovom vybavení Zbierky kvasiniek a jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participuje ako partner), nedostatok kapitálových finančných prostriedkov neumožnil v roku 2014 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.

Vzhľadom k havarijnému stavu zdravotníckej (vodoinštalácia, kúrenie, odpady) v 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 (alebo pripraviť projekt v rámci výziev ŠF EÚ), inak môže byť ohrozená činnosť šiestich ústavov 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, aby sa tomuto problému venovala pozornosť v celoareálovom merítku, 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.

Oceňujeme, že pre publikačné výstupy v Osnove správy o činnosti organizácie SAV došlo po našich viacerých pripomienkach k zmene (kvôli zjednoteniu údajov z osnovy a akreditačného dotazníka), t.j. v správe sa budú uvádzať publikačné výstupy v časopisoch evidovaných vo WOS a Scopus (delené na impaktované a neimpaktované) a nie iba v časopisoch evidovaných v Current Contents.

Vzhľadom na to, že systém prideľovania 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 Barlíková, 02/ 59410202 (ekonomická časť)

Riaditeľ organizácie SAV:

.....
Ing. Miroslav Koóš, DrSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2014****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.	80	0.80
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	70	0.70
5.	Ing. Ján Hirsch, DrSc.	55	0.55
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.	130	1.30
11.	Ing. Igor Tvaroška, DrSc.	65	0.65
12.	RNDr. Mária Vršanská, DrSc.	90	0.90
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
Samostatní vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Ing. Emília Breierová, PhD.	100	1.00
3.	Ing. Marek Bučko, PhD.	100	1.00
4.	Mgr. Peter Capek, PhD.	100	1.00
5.	RNDr. Ján Gajdoš, PhD.	100	1.00
6.	Ing. Miloš Hricovíni, PhD.	100	1.00
7.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
8.	Ing. Zdenka Hromádková, PhD.	100	1.00
9.	Ing. Jaroslav Katrlík, PhD.	100	1.00
10.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
11.	RNDr. Karin Kollárová, PhD.	100	1.00
12.	Mgr. Juraj Kóna, PhD.	100	1.00
13.	Ing. Zuzana Košťálová, PhD.	100	1.00
14.	Mgr. Stanislav Kozmon, PhD.	5	0.05

15.	RNDr. Desana Lišková, PhD.	100	1.00
16.	prof. RNDr. Alexander Lux, CSc.	5	0.05
17.	RNDr. Eva Machová, PhD.	60	0.93
18.	RNDr. Anna Malovíková, PhD.	100	1.00
19.	Ing. Vladimír Mastihuba, PhD.	100	1.00
20.	Ing. Mária Mastihubová, PhD.	100	1.00
21.	Ing. Danica Mislovičová, PhD.	30	0.25
22.	RNDr. Ján Mucha, CSc.	100	1.00
23.	Ing. Jozef Nahálka, PhD.	100	1.00
24.	Ing. Ema Paulovičová, CSc.	100	1.00
25.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
26.	RNDr. Mária Petrušová, PhD.	100	0.91
27.	Ing. Monika Poláková, PhD.	100	1.00
28.	Mgr. Vladimír Puchart, PhD.	100	1.00
29.	Ing. Eva Stratilová, PhD.	100	1.00
30.	Mgr. Jana Šefčovičová, PhD.	100	1.00
31.	Ing. Sergej Šesták, PhD.	100	1.00
32.	Ing. Renáta Vadkertiová, PhD.	100	1.00
33.	Ing. Alica Vikartovská, PhD.	124	1.24
34.	Mgr. Ivan Zelko, PhD.	100	0.00
Vedeckí pracovníci			
1.	Ing. Maroš Bella, PhD.	100	1.00
2.	Ing. Tomáš Bertók, PhD.	140	1.03
3.	Ing. Peter Bystrický, PhD.	100	0.83
4.	Ing. Alžbeta Čížová, PhD.	100	1.00
5.	RNDr. Lucia Demovičová, PhD.	100	0.42
6.	Mgr. Miroslava Ďuranová, PhD.	100	0.42
7.	Ing. Pavol Farkaš, PhD.	100	1.00
8.	Ing. Jaroslav Filip, PhD.	150	1.50
9.	Ing. Zuzana Firáková, PhD.	100	0.33
10.	Ing. Soňa Garajová, PhD.	100	0.00
11.	Ing. Eva Hrabárová, PhD.	100	1.00
12.	Mgr. Lenka Kohútová, PhD.	100	0.83
13.	Mgr. Jana Korcová, PhD.	100	1.00
14.	RNDr. Ján Kozák, PhD.	100	1.00

15.	Mgr. Danica Kučerová, PhD.	100	0.00
16.	RNDr. Erika Lattová, PhD.	100	0.00
17.	Ing. Izabela Medovarská, PhD.	100	0.00
18.	Ing. Júlia Mičová, PhD.	100	0.00
19.	Ing. Jana Molnárová, PhD.	100	1.00
20.	Ing. Marek Nemčovič, PhD.	100	1.00
21.	RNDr. Jana Nováková, PhD.	100	0.33
22.	Ing. Lucia Paulovičová, PhD.	100	1.00
23.	Ing. Božena Pribulová, PhD.	100	1.00
24.	Ing. Andrea Schenk Mayerová, PhD.	100	1.00
25.	Ing. Vladimír Sládek, PhD.	100	0.25
26.	Ing. Katarína Šuchová, PhD.	100	0.00
27.	Mgr. Zuzana Vatehová, PhD.	100	0.33
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.	RNDr. Anikó Bertóková	31	0.08
5.	RNDr. Mária Dzúrová	100	1.00
6.	Ing. Erika Farkašová	100	1.00
7.	Ing. Andrej Chyba	8	0.05
8.	Ing. Ľudmila Kluková	30	0.30
9.	Ing. Peter Magdolen	100	1.00
10.	Ing. Ema Podobová	100	1.00
11.	Mgr. Elena Potocká	8	0.05
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.	Mgr. Mária Šedivá	100	0.33
17.	Ing. Jozef Švec	100	1.00
18.	Ing. Jozef Tonka	100	1.00
19.	Ing. Jozef Turjan	100	1.00
20.	RNDr. Iveta Uhliariková	100	1.00
21.	Ing. Silvia Vlčková	100	1.00

Odborní pracovníci ÚSV			
1.	Mária Bednáríková	100	1.00
2.	Alena Bordáčová	100	1.00
3.	Mária Cziszarová	100	1.00
4.	Helena Čigašová	100	1.00
5.	Ľudmila Gažíková	100	1.00
6.	Jana Guthová	100	1.00
7.	Beáta Chválková	100	1.00
8.	Mária Janáčiová	80	0.80
9.	Beáta Kalivodová	100	1.00
10.	Alžbeta Kanská	100	1.00
11.	Janka Komačková	100	1.00
12.	Ľudovít Kompaník	100	1.00
13.	Jana Köplingerová	100	1.00
14.	Eva Morháčová	100	1.00
15.	Jakub Mucha	100	0.22
16.	Milan Novosad	100	1.00
17.	Nadežda Orthová	100	1.00
18.	Ondrej Pénzeš	100	0.08
19.	Margita Plšková	100	1.00
20.	Emília Rosová	100	1.00
21.	Kvetoslava Sabová	100	0.00
22.	Zdena Smolková	100	1.00
23.	Radoslava Šályová	125	1.25
24.	Alena Šoltésová	100	1.00
25.	Nadežda Šporánková	100	1.00
26.	Oľga Švančarová	100	1.00
27.	Vojtech Tóth	100	1.00
28.	Matej Vaš	100	1.00
29.	Mariana Vlčeková	100	0.92
30.	Erika Voleková	100	1.00
31.	Scarlett Weinzettlová	100	1.00
32.	Dana Žišková	125	1.25
Ostatní pracovníci			
1.	Ladislav Baláži	100	0.08

2.	Peter Cagáň	100	0.86
3.	Milan Chochlík	73	0.73
4.	Helena Lešťanská	100	1.00
5.	Elena Masarovičová	100	1.00
6.	Eva Pazderová	100	1.00
7.	Miroslav Pír	100	1.00
8.	Ing. Viliam Podoba	100	0.75
9.	František Špetko	100	1.00
10.	Ivan Vavro	100	1.00
11.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedeckí pracovníci			
1.	Mgr. Slavomíra Husárová, PhD.	31.5.2014	0.00
Odborní pracovníci s VŠ vzdelaním			
1.	Ing. Viktor Havlík	30.11.2014	0.25
2.	Ing. Peter Kis	31.8.2014	0.67
3.	Mgr. Ivana Slaninková	30.6.2014	0.15
Odborní pracovníci ÚSV			
1.	Nataša Izáková	11.1.2014	0.04
2.	Natália Onderová	31.10.2014	0.25

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	RNDr. Anikó Bertóková	Prírodovedecká fakulta UK	5.2.25 biotechnológie
2.	Mgr. Zsófia Csáky	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
3.	Mgr. Lucia Fraňová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
4.	Ing. Michal Halaj	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
5.	Ing. Andrej Chyba	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
6.	Ing. Peter Kis	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia

7.	Ing. Ľudmila Kluková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
8.	Mgr. Tomáš Klunda	Prírodovedecká fakulta UK	4.1.16 organická chémia
9.	Ing. Kristína Kováčová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
10.	Ing. Tomáš Krajčovič	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
11.	Mgr. Zuzana Neščáková	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
12.	Ing. Zuzana Pakanová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
13.	Mgr. Marek Pápay	Prírodovedecká fakulta UK	4.1.22 biochémia
14.	Mgr. Elena Potocká	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
15.	Ing. Peter Seč	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
16.	RNDr. Alena Šedivá	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
17.	RNDr. Klaudia Talafová	Prírodovedecká fakulta UK	4.1.22 biochémia
18.	Mgr. Veronika Virčíková	Prírodovedecká fakulta UK	4.1.22 biochémia
19.	Mgr. Martina Zámorová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
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.) 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 inštitúcií: 1 - Francúzsko: 1
Čerpané financie: 0

2.) 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 inštitúcií: 4 - Slovensko: 2, Taiwan: 2
Čerpané financie: SAV: 22000 €

Dosiahnuté výsledky:

V spolupráci s partnerským pracoviskom - Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan, sa postavil homológny model enzýmov hCD22 (hSiglec-2) a Myelin-associated glycoprotein (MAG, hSiglec-4), keď ako templát sa použila kryštálová štruktúra Sialoadhezínu (SnD1). Na upresnenie štruktúry sa použili známe inhibítory SnD1 - Me-alfa-9-N-(biphenyl-4-carbonyl)-amino-9-deoxy-Neu5Ac a 2-Phenyl-Prop5Ac. Zostrojilo sa viac ako 1000 modelov pre každý Siglec enzým a model s najnižším skóre bol vybraný pre dokovanie potenciálnych inhibítorov. Väzbové interakcie syntetizovaných inhibítorov boli porovnané s interakciami hCD22 or MAG v kryštálovej štruktúre SnD1 a použité na vysvetlenie ich väzbových interakcií a špecificity.

PEREZ, Serge - TVAROŠKA, Igor. Carbohydrate-protein interactions: molecular modeling insights. In Advances in Carbohydrate Chemistry and Biochemistry, 2014, 71, p. 9-136. (3.917 - IF2013). ISSN 0065-2318. DOI: 10.1016/B978-0-12-800128-8.00001-7 (ADEA)

Programy: Medziústavná dohoda

3.) Inovatívne enzýmové technológie na spracovanie biomasy (*Innovative enzyme technology for biomass processing*)

Zodpovedný riešiteľ: Peter Biely
Trvanie projektu: 1.1.2013 / 31.12.2014
Evidenčné číslo projektu: Collaborative Research Agreement
Organizácia je koordinátorom projektu: nie
Koordinátor: Norwegian University of Life Sciences
Počet spoluriešiteľských inštitúcií: 1 - Nórsko: 1
Čerpané financie: Research Council of Norway: 12500 €

Programy: Medzivládna dohoda

4.) 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: 1 - Portugalsko: 1
Čerpané financie: APVV: 2700 €

5.) 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 €

Programy: COST

6.) 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
Počet spoluriešiteľských inštitúcií: 30
Čerpané financie: EC Brussels: 1200 €
Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

V rámci spolupráce s Dr. Georgijom Yordanovom, Faculty of Chemistry, Sofia University, Bulgaria a Faculty of Veterinary Medicine University of Bari "Aldo Moro", Italy pokračoval výskum zameraný na sledovanie interakcií proteínov, lektínov, glykokonjugátov a koloidov ako perspektívnych nosičov liečiv technikou povrchovej plazmónovej rezonancie (SPR) a microarray s fluorescenčnou detekciou. Pozornosť bola venovaná najmä príprave SPR biočipov na báze komplexných manózových štruktúr a ich interakcii s rastlinnými lektínami a imunizovanými sérami, ako aj príprave SPR biočipov so sérovými glykoproteínmi a ich interakcii s polymérnymi nanočasticami ako perspektívnymi nosičmi liečiv. Dosiahnuté výsledky boli prezentované na 28th Conference of the European Colloid and Interface Society (ECIS 2014), v rámci ktorej sa konal aj Management Committee Meeting projektu CMST COST Action CM1101 (aktívna účasť Dr. Katríka).

KATRLÍK, Jaroslav - ŠEDIVÁ, Alena - GEMEINER, Peter - BYSTRICKÝ, Slavomír - KASÁK, Peter - YORDANOV, Georgi. Study of proteins, lectins, glycoconjugates and colloids mutual interactions using surface plasmon resonance. In Poster Presentations Abstracts: 28th Conference of the European Colloid and Interface Society (ECIS 2014), September 7-12, 2014, Limassol, Cyprus. Haifa: Technion, 2014. PB-20, p. 104. (AFG)

7.) 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: 4000 €

Dosiahnuté výsledky:

Pokračovalo sa vo vyhodnocovaní výsledkov z fyzikálno-chemických meraní získaných v rámci spolupráce s Dr. Mariom Aguedom (University of Liege, Gembloux Agro-Bio Tech, Department of Industrial Biological Chemistry, Belgium). Pomocou štatistickej RSM metódy sa zistili optimálne podmienky extrakcie pektínu pomocou mikrovlnného žiarenia z tekvicovej biomasy a na základe štruktúrálnej analýzy sa vyhodnotil vplyv mikrovlnného žiarenia na štruktúru izolovaných

polysacharidov. Výsledky boli prezentované na konferencii Total Food 2014 (Norwich, UK).

KOŠŤÁLOVÁ, Zuzana - AQUEDO, Mario - HROMÁDKOVÁ, Zdenka. Microwave assisted extraction of pectin from unutilized pumpkin biomass. In Abstracts: Total Food 2014: Science and technology for the economic and sustainable exploitation of agri-wood chain wastes and co-products, November 11-13, 2014, Norwich Research Park, Norwich, UK. Norwich, UK: Institute of Food Research, 2014. p. P2.03. (AFG)

8.) 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: 1000 €

Dosiahnuté výsledky:

Dr. Lišková sa zúčastnila na záverečnom mítingu Management Committee Meeting combined with Evaluation Committee Meeting v Antalya-Belek, Turkey, na ktorom bola schválená záverečná správa o financovaní a dosiahnutých výsledkoch a rokovalo sa o budúcej spolupráci. Projekt bol úspešne ukončený 13.4.2014. Publikované boli práce zaoberajúce sa chronologickou distribúciou kadmia v jednotlivých pletivách rastlín, štrukturálnych zmien koreňového apexu, xylémových elementov a vývinu suberínovej lamely v rastlinách Arabidopsis a Pteris vittata počas rastu v kadmíom kontaminovanom prostredí.

KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - ZELKO, Ivan - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides alleviate cadmium stress in Arabidopsis. In Journal of Plant Physiology, 2014, vol. 171, p. 518-524. (2.770 - IF2013). ISSN 0176-1617.

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, 2014, vol. 239, p. 1055-1064. (3.376 - IF2013). ISSN 0032-0935.

MARTINKA, Michal - VACULÍK, Marek - LUX, Alexander. Plant cell responses to cadmium and zinc. In NICK, Peter - OPATRŇÝ, Zdeněk (Eds.). Applied Plant Cell Biology: Cellular Tools and Approaches for Plant Biotechnology. (Series: Plant Cell Monographs, Vol. 22). Heidelberg, Germany: Springer-Verlag, 2014, p. 209-246. ISBN 978-3-642-41786-3. ISSN 1861-1370. 481 p.

9.) Zhodnotenie odpadovej lignocelulózovej biomasy pre udržateľnú produkciu chemikálií, materiálov a palív s využitím technológií s nízkou environmentálnou záťažou (*Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies*)

Zodpovedný riešiteľ: Vladimír Mastihuba
Trvanie projektu: 15.5.2014 / 14.5.2018
Evidenčné číslo projektu: FPS COST Action FP1306
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Rafael Luque, Departamento de Química Organica, Universidad de Córdoba, Córdoba
Počet spoluriešiteľských inštitúcií: 30
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 2667 €

Dosiahnuté výsledky:

V roku 2014 sa konal otvárací Management Committee Meeting FPS COST Action FP1306 (15. mája 2014), ktorého sa zúčastnil Dr. Mastihuba. Hlavnou pracovnou náplňou členov Akcie pre rok 2014 bolo kreovanie 4 pracovných skupín (WG), vymedzenie ich odbornej činnosti a skontaktovanie sa jednotlivých členov. Na to slúžili meetingy jednotlivých WG. Dr. Mastihuba sa zúčastnil ustanovujúceho meetingu WG3 "Lignin conversion" (27.-28. október 2014), kde nadviazal spoluprácu s Dr. Ligiou O. Martins z Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa, Oeiras, Portugalsko v oblasti enzýmových transformácií lignocelulózových materiálov.

10.) 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: Podpora medzinárodnej spolupráce z národných zdrojov: 4667 €

Dosiahnuté výsledky:

Uskutočnili sa dve pracovné cesty:

J. Nahálka - 2nd Management Committee Meeting of COST Action CM1303, Madrid, Spain, April 11, 2014;

K. Talafová – COST CM1303 Training School SysBiocat, Certosa di Pontignano, Italy, May 28–June 01, 2014.

Na týchto stretnutiach boli prezentované výsledky formou prednášok a bola dohodnutá spolupráca s Prof. Dr. Wolf-Dieter Fessnerom z TU Darmstadt. V rámci tejto spolupráce sa pracovalo na syntéze alfa-2,3-sialo-laktózy.

11.) 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: CMST COST Action CM1106

Organizácia je nie
koordinátorom projektu:
Koordinátor: Prof. Daniele Passarella, Università degli Studi di Milano
Dipartimento di Chimica Organica e Industriale, Milano, Italy
Počet spoluriešiteľských 30
inštitúcií:
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

V rámci pokračujúcej spolupráce s pracovnou skupinou Dr. Reisa z Institute of Molecular Pathology and Immunology, University of Porto (IPATIMUP) bol pripravený 3D-model enzýmu ST3Gal I na základe prístupnej aminokyselinovej sekvencie ST3Gal IV a kryštálovej štruktúry, ktorý sa upresňuje pomocou metód molekulovej dynamiky a hybridných metód kvantovej mechaniky/molekulovej mechaniky. Metódami QM-MM sa študovala úloha kationových kofaktorov na mechanizmus enzýmu Kre2p/Mnt1p. Výsledky ukázali, že tento enzým používa S_Ni typ mechanizmu, pričom aktivita enzýmu korelovala so schopnosťou kationu polarizovať aktívne miesto reakcie.

V spolupráci so skupinou prof. L. Somsáka z AV MR v Debrecíne sa študovali inhibítory glykogenfosforylázy, potenciálnych liečiv cukrovky typu 2. Na základe homológneho modelovania bol vytvorený QSAR model, ktorý umožní racionálne návrhy nových inhibítorov tohto enzýmu. Výsledky boli publikované v zahraničných časopisoch a prezentované na COST mítingoch.

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. A theoretical study on the catalytic mechanism of the retaining α -1,2-mannosyltransferase Kre2p/Mnt1p: the impact of different metal ions on catalysis. In Organic & Biomolecular Chemistry, 2014, vol. 12, p. 4201-4210. (3.487 - IF2013). (2014 - Current Contents). ISSN 1477-0520. (ADCA)

JUHÁSZ, László - VARGA, Gergely - SZTANKOVICS, Andrea - BÉKE, Ferenc - DOCSA, Tibor - KISS-SZIKSZAI, Attila - GERGELY, Pál - KÓŇA, Juraj - TVAROŠKA, Igor - SOMSÁK, László. Structure-activity relationships of glycogen phosphorylase inhibitor FR258900 and its analogues: A combined synthetic, enzyme kinetics, and computational study. In ChemPlusChem, 2014, 79, p. 1558-1568. (3.242 - IF2013). (2014 - Current Contents). ISSN 2192-6506. (ADCA).

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Catalytic mechanism of retaining glycosyltransferases GTB and Kre2p: insight from molecular modeling. In MultiGlycoNano 2014 - COST Action CM1102 Working Group Meeting, 25-28 June 2014, Certosa di Pontignano, Siena, Italy. Poster. (AFG)

KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor. Catalysis of the glycosyltransferase Kre2p/Mnt1p in the presence of different metal ions investigated by QM/MM calculations. In MultiGlycoNano 2014 - COST Action CM1102 Working Group Meeting, 25-28 June 2014, Certosa di Pontignano, Siena, Italy. Poster. (AFG)

12.) Multivalentné glykosystémy pre nanovedu - MultiGlycoNano (*Multivalent glycosystems for nanoscience - MultiGlycoNano*)

Zodpovedný riešiteľ: Igor Tvaroška
Trvanie projektu: 7.11.2011 / 6.11.2015
Evidenčné číslo projektu: CMST COST Action CM1102
Organizácia je nie
koordinátorom projektu:

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:

V spolupráci s pracoviskom v konzorciu (VŠCHT Praha) sa študovala úloha CH/Pí interakcií na stabilitu sacharid-proteínových komplexov pomocou metadynamiky, ktorá umožnila charakterizovať úlohu vodíkových a hydrofóbných interakcií na stabilitu týchto komplexov (publikácia odoslaná do redakcie).

Dalej sa pokračovalo v štúdiu katalytického mechanizmu glykozylntransferázy GTB, ktorá sa zúčastňuje biosyntézy krvnej skupiny B. Mechanizmus GTB bol študovaný pomocou QM/MM metód. Získané výsledky vysvetlili prečo intermediát reakcie bol pozorovaný v mutante a nie prirodzenom enzýme (vyjdená publikácia a prednáška).

MAREŠKA, Václav - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Role of CH/Pí interactions versus hydrophobic effect in stabilization of carbohydrate-protein complexes. In Carbohydrate Research, submitted (1.966 - IF2013). (2014 - Current Contents). ISSN 0008-6215. (ADCA)

KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor. Catalytic mechanism of glycosyltransferases: Insight from molecular modeling. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava, Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. s. 78. ISBN 978-80-970164-6-3. (AFHA)

Programy: European Science Foundation (ESF)

13.) 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: 1333 €

Dosiahnuté výsledky:

V roku 2014 bola finančne podporená účasť Dr. J. Muchu na: FEBS konferencii, kde prezentoval výsledky dosiahnuté v rámci štúdia diagnostiky Pompeho choroby pomocou spektrálnych metód. Táto konferencia bola organizovaná ako súčasť medzinárodného podujatia o vrodených ochoreniach metabolizmu (LSD). Počas pobytu sa uskutočnilo stretnutie na tému: Mass- a NMR-spektrálna analýza v neinvazívnej diagnostike metabolických ochorení.

PAKANOVÁ, Zuzana - MATULOVÁ, Mária - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - PÄTOPRSTÝ, Vladimír - MUCHA, Ján. Spectral analysis in diagnostics of

Pompe Disease in Slovakia. In Book of Abstracts: FEBS Advanced Lecture Course, 360° Lysosome: from structure to genomics, from function to disease, October 23-28, 2014, Izmir, Turkey. Izmir: Ege University Publishing House, 2014. ISBN 978-606-338-092-4. (AFG)

Programy: 7RP

14.) Integrovaná infraštruktúra pre štrukturálnu 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 je umožniť prístup k infraštruktúre pre štruktúrnú biológiu, ktorá je k dispozícii na viacerých európskych pracoviskách. Slovenská republika sa v r. 2014 oficiálne zapojila do projektu INSTRUCT ako pozorovateľ na základe listu ministra školstva, vedy, výskumu a športu SR. V projekte INSTRUCT zastupuje SR Chemický ústav SAV, menovite Ing. M. Hricovíni, PhD., ktorý sa v máji 2014 zúčastnil zasadnutia výboru INSTRUCT v Oxforde, kde sa prezentovali aktivity za minulé obdobie a prejednával sa návrh na implementáciu projektu do formy ERIC-INSTRUCT ako aj finančný model príspevkov do projektu. V r. 2014 sa pridelené prostriedky MVTS použili na cestovné, nákup výpočtovej techniky, chemikálií, lab. pomôcok potrebných na riešenie projektov medzinárodnej spolupráce. Riešila sa 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. V rámci medzinárodnej spolupráce bola publikovaná práca:

HRICOVÍNI, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Olga L. NMR and DFT analysis of trisaccharide from heparin repeating sequence. In The Journal of Physical Chemistry B, 2014, vol. 118, p. 11931-11942. (3.377 - IF2013). (2014 - Current Contents). ISSN 1520-6106. (ADCA)

15.) 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: 127497 €
Podpora medzinárodnej spolupráce z národných zdrojov: 15152 €

Dosiahnuté výsledky:

Ciele projektu boli napĺňané hlavne v dvoch oblastiach: (1) „label-free“ elektrochemické glykoprofilovanie biomarkerov rakoviny prostaty založené na imobilizácii lektínov/protilátok na nanoštruktúrovaný povrch tvorený napr. grafénom, zlatými nanočasticami alebo SAM vrstvou a (2) glykorozpoznávanie pomocou microarray a SPR biočipov využívajúce lektíny alebo protilátky v kombinácii s rôznymi typmi biočipov. Rozličné spôsoby imobilizácie lektínov, ako i protilátok voči prostate specific antigen (PSA) boli testované so získaním základných charakteristík takto pripravených biosenzorov/biočipov. Dr. Tkáč a Dr. Katrlík organizovali Workshop „Application of lectins in various format of analysis for glycoprofiling“ (Chemický ústav SAV a CVTI, Bratislava, 23.-24.1.2014). Dr. Tkáč, Dr. Katrlík a doktorandi Ing. Damborský a Ing. Belický sa zúčastnili na Summer School “Clinical perspectives and commercial forces on biosensor devices” a Supervisory Board mítingu, ktorý bol súčasne aj „mid-term review panel“ za účasti recenzenta a člena exekutívy z Bruselu (Bath University, Bath, UK). Publikovaná bola jedna práca a ďalšie práce sú akceptované a budú publikované v roku 2015.

KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - KASÁK, Peter - TKÁČ, Ján. Nanoscale controlled architecture for the development of ultrasensitive lectin biosensors applicable in glycomics. In Analytical Methods, 2014, vol. 6, p. 4922-4931. (1.938 - IF2013). (2014 - Current Contents). ISSN 1759-9660. (ADCA)

16.) 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
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EC Brussels: 150789 €
Podpora medzinárodnej spolupráce z národných zdrojov: 21018 €

Dosiahnuté výsledky:

V súčasnosti je značné úsilie v oblasti glykomiky zamerané na hľadanie alternatívnych spôsobov detekcie procesu biorozpoznávania k spôsobu analýzy fluorescenčnými biočipmi (microarray). Tento spôsob detekcie si vyžaduje prítomnosť fluorescenčnej značky, ktorá môže proces biorozpoznávania značným spôsobom ovplyvniť. Pri riešení ERC projektu sa preto zameriavame na možnosti analýzy metódami, ktoré si nevyžadujú prítomnosť značiek tzv. „label-free“ metód. Najslubnejšou metódou je elektrochemická impedančná spektrometria, ktorá umožňuje ultracitlivú analýzu jednotlivých molekúl analytu („single molecule level“).

TKÁČ, Ján - BERTÓK, Tomáš - NAHÁLKA, Jozef - GEMEINER, Peter. Perspectives in glycomics and lectin engineering. In HIRABAYASHI, Jun. Lectins: Methods and Protocols (Series: Methods in Molecular Biology). New York, NY, USA: Humana Press, imprint of Springer Media,

2014, vol. 1200, chapter 37, p. 421-445. ISSN 1064-3745. ISBN ISBN 978-1-4939-1291-9. DOI: 10.1007/978-1-4939-1292-6_37. (ABC)

BERTÓK, Tomáš - ŠEDIVÁ, Alena - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Comparison of the 2D and 3D nanostructured lectin-based biosensors for in situ detection of sialic acid on glycoproteins. In International Journal of Electrochemical Science, 2014, vol. 9, p. 890-900. (1.956 - IF2013). (2014 - Current Contents). ISSN 1452-3981. (ADCA)

HUSHEGYI, András - BERTÓK, Tomáš - TKÁČ, Ján. Detekčné metódy pre štúdium glykán proteínových interakcií. In Chemické listy, 2014, vol. 108, p. 451-456. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770. (ADCA)

HUSHEGYI, András - BERTÓK, Tomáš - TKÁČ, Ján. Glycan immobilization in construction of biochips and biosensors. In Chemické listy, 2014, vol. 108, p. 831-837. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770. (ADCA)

HUSHEGYI, András - TKÁČ, Ján. Are glycan biosensors an alternative to glycan microarrays? In Analytical Methods, 2014, vol. 6, p. 6610-6620. (1.938 - IF2013). (2014 - Current Contents). ISSN 1759-9660. (ADCA)

KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - TKÁČ, Ján. Properties and electrochemical use of graphene. In Chemické listy, 2014, vol. 108, p. 653-659. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770. (ADCA)

KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - TKÁČ, Ján. Glykomika ako nástroj na diagnostiku rôznych chorôb. In Chemické listy, 2014, vol. 108, p. 942-948. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770. (ADCA)

17.) 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: 4000 €

Dosiahnuté výsledky:

Cieľom MIRRI je zapojenie čo najväčšieho počtu európskych zbierok mikroorganizmov do spoločnej infraštruktúry. Aktivity všetkých partnerov a spolupracujúcich partnerov štruktúry MIRRI, teda aj Zbierky kultúr kvasiniek - CCY) boli zamerané na prieskum (formou niekoľkých dotazníkov a oslovením čo najširšej skupiny zákazníkov), aký typ služieb a dát súvisiacich s mikroorganizmami považujú zákazníci jednotlivých zbierok mikroorganizmov za dôležité a aké ďalšie činnosti by boli pre ich prácu prínosom. Jednotlivé zbierky mikroorganizmov prispeli aj k vytvoreniu obsahu webovej stránky: www.mirri.org. Cieľom týchto aktivít je spoločne poskytovať čo

najkomplexnejšie služby zákazníkom jednotlivých zbierok mikroorganizmov.

Zbierka kultúr kvasiniek časť svojej činnosti venovala zhromažďovaniu ďalších údajov o kultúrach kvasiniek udržiavaných v zbierke a identifikácii kvasiniek pomocou metód molekulárnej biológie. Pridelené finančné prostriedky sa použili na pokrytie nákladov spojených s identifikáciou kvasiniek pomocou vyššie uvedených metód, ktoré umožňujú spoľahlivú identifikáciu kvasiniek. Získané údaje a výsledky identifikácie prispievajú k rozšíreniu údajov v katalógu kvasiniek uverejnenom na webovej stránke Zbierky kultúr kvasiniek, ktorá je začlenená aj do webovej stránky MIRRI.

Programy: Iné

18.) Príprava, charakterizácia a aplikácia lektínových biočipov v diagnostike rakoviny a vo výskume biomarkerov rakoviny (*Preparation, characterisation and application of lectin biochips in cancer diagnosis and in discovery of cancer biomarkers*)

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	NPRP 6-381-1-078
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Qatar University
Počet spoluriešiteľských inštitúcií:	1 - Katar: 1
Čerpané financie:	Qatar National Research Fund (QNRF): 132448 €

Dosiahnuté výsledky:

Optimalizovaný bol výber vhodných protilátok voči PSA (prostate specific antigen), proces ich imobilizácie ako i spôsob modifikácie zlatých povrchov technikou samousporiadaných monovrstiev (SAM). Optimalizované boli aj podmienky merania technikou elektrochemickej impedančnej spektrometrie a proces blokovania nešpecifických interakcií. Pri aplikácii optimálnych meracích podmienok bol biosenzor schopný stanoviť PSA ultracitlivo s detekčným limitom v oblasti aM (10^{-18} M).

Projekty národných agentúr

Programy: VEGA

1.) 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: 4955 €

2.) 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 koordinátorom projektu: nie
Koordinátor: FCHPT STU
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 14337 €

3.) 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 koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 12325 €

4.) Štúdium štruktúry a vlastností biologicky aktívnych sacharidov metódami NMR spektroskopie a teoretickej chémie (*Study of structure and properties of biologically active saccharides using methods of NMR spectroscopy and theoretical chemistry*)

Zodpovedný riešiteľ: Miloš Hricovíni
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0100/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV: 6318 €

5.) Bioaktívne polysacharidy z nevyužívaných rastlín a rastlinných odpadov: štrukturálna 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 áno

koordinátorom projektu:

Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 9352 €

6.) Vývoj lektínových, proteínových a glykánových biočipov s využitím moderných technológií a nanotechnológií pre aplikácie v biológii, biomedicíne a pre detekciu biomarkerov
(Development of lectin, protein and glycan biochips using modern technologies and nanotechnologies for applications in biology, biomedicine and for biomarkers detection)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0162/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV: 14073 €

7.) 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: 7921 €

8.) Signalizácia galaktoglukomanánových oligosacharidov v procesoch rastu rastlín a ich ochranný potenciál voči toxickým kovom
(Galactoglucomannan oligosaccharides signaling in plant growth processes and their protective potential against toxic metals)

Zodpovedný riešiteľ: Desana Lišková
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0083/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV: 6361 €

9.) 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: 4601 €

10.) 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: 18531 €

11.) 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: 12387 €

12.) 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: 6813 €

13.) Štruktúrna analýza N-viazaných oligosacharidov v špeciálnej diagnostike kongenitálnych metabolických porúch glykozylácie (*Structural analysis of N-linked oligosaccharides in special diagnostics of congenital metabolic disorders of glycosylation*)

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 1.1.2014 / 31.12.2016
Evidenčné číslo projektu: 2/0188/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 9181 €

14.) 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: 6937 €

15.) Syntéza mimetík 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: 11511 €

16.) Syntéza, štrukturálny dizajn a evaluácia nových sulfónových derivátov D-manózy – inhibítory 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: 1734 €

17.) Mikrobiálne enzýmy pre využitie rastlinných hemicelulóz (*Microbial enzymes for plant hemicellulose utilization*)

Zodpovedný riešiteľ: Vladimír Puchart
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0037/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 10635 €

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: 8253 €

19.) Diverzita, vlastnosti a aktivity pôdných kvasiniek (*The diversity, properties and activities of soil yeasts*)

Zodpovedný riešiteľ: Renáta Vadkertiová
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0023/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 8104 €

Programy: APVV

20.) 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 koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 3700 €

21.) 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 koordinátorom projektu: nie
Koordinátor: FCHPT STU
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 5540 €

22.) 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 koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 14151 €

23.) 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: 5807 €

24.) 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: APVV: 11500 €

25.) 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

26.) 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: 4 - Slovensko: 4
Čerpané financie: APVV: 4080 €

27.) 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: 6500 €

28.) 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: 20560 €

29.) Štrukturálny 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
Čerpané financie: APVV: 42010 €

30.) 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: APVV: 26700 €

31.) 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: 5575 €

32.) 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: 25778 €

Programy: Štrukturálne fondy EÚ Výskum a vývoj

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

Zodpovedný riešiteľ: Peter Gemeiner
Trvanie projektu: 1.2.2012 / 30.11.2014

Evidenčné číslo projektu: 26240220079
Organizácia je koordinátorom projektu: nie
Koordinátor: Axxence Slovakia s.r.o.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: ASFEU: 42687 €

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

Zodpovedný riešiteľ: Ján Mucha
Trvanie projektu: 3.9.2010 / 31.12.2014
Evidenčné číslo projektu: 26240120031
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 6 - Slovensko: 6
Čerpané financie: ASFEU: 56239 €

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

Zodpovedný riešiteľ: Jozef Nahálka
Trvanie projektu: 1.9.2010 / 31.12.2014
Evidenčné číslo projektu: 26220120054
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: ASFEU: 220652 €

36.) 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 / 30.6.2015
Evidenčné číslo projektu: 26210120029
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: 0

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 HRICOVÍNIOVÁ, Zuzana. Transition-metal-catalyzed transformation of monosaccharides and polysaccharides. In RAMAWAT, Kishan Gopal-MÉRILLON, Jean-Michel(eds.): Polysaccharides: Bioactivity and Biotechnology. - Cham, Switzerland : Springer International Publishing, 2014, p. 1-45. ISBN 978-3-319-03751-6.
- ABC02 MARTINKA, Michal - VACULÍK, Marek - LUX, Alexander. Plant cell responses to cadmium and zinc. In Applied Plant Cell Biology. - Berlin Heidelberg : Springer, 2014, p. 209-246. ISBN 978-3-642-41786-3.
- ABC03 TKÁČ, Ján - BERTÓK, Tomáš - NAHÁLKA, Jozef - GEMEINER, Peter. Perspectives in glycomics and lectin engineering. In HIRABAYASHI, Jun: Lectins: Methods and Protocols (Series: Methods in Molecular Biology). - New York : Humana Press, imprint of Springer Media, 2014, vol. 1200, chapter 37, p. 421-445. ISBN 978-1-4939-1291-9.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Degradation of polyphosphates by polyphosphate kinases from *Ruegeria pomeroyi*. In Biotechnology Letters, 2014, vol. 36, p. 2029-2035. (1.736 - IF2013). (2014 - Current Contents). ISSN 0141-5492.
- ADCA02 BALESTRI, Mirko - CECCARINI, Alessio - FORINO, Laura Maria Constantina - ZELKO, Ivan - MARTINKA, Michal - LUX, Alexander - CASTIGLIONE, Monica Ruffini. Cadmium uptake, localization and stress-induced morphogenic response in the fern *Pteris Vittata*. In Planta, 2014, vol. 239, p. 1055-1064. (3.376 - IF2013). (2014 - Current Contents). ISSN 0032-0935.
- ADCA03 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - MENDICHI, Raniero - MISLOVIČOVÁ, Danica - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Effect of bucillamine on free-radical-mediated degradation of high-molar-mass hyaluronan induced in vitro by ascorbic acid and Cu(II) ions. In Polymers : Open Access Polymer Science Journal, 2014, vol. 6, no. 10, p. 2625-2644. (2.505 - IF2013). (2014 - Current Contents). ISSN 2073-4360.
- ADCA04 BARBIERIKOVÁ, Zuzana - STAŠKO, Andrej - SEMANOVÁ, Jana - DVORANOVÁ, Dana - KARABÍN, Michal - BELLA, Maroš - MILATA, Viktor - BREZOVÁ, Vlasta. Photoinduced process of 2,1,3-benzoseleno(thia)diazole derivatives in dimethylsulfoxide: an in situ EPR spin trapping study. In Monatshefte für Chemie, 2014, vol. 145, p. 1449-1460. (1.347 - IF2013). (2014 - Current Contents). ISSN 0026-9247.
- ADCA05 BARBIERIKOVÁ, Zuzana - DVORANOVÁ, Dana - BELLA, Maroš - MILATA, Viktor - CZÍMEROVÁ, Adriana - BREZOVÁ, Vlasta. Fused-ring derivatives of quinoxalines: spectroscopic characterization and photoinduced processes investigated by EPR spin trapping technique. In Molecules, 2014, vol. 19, no. 8, p. 12078-12098. (2.095 - IF2013). (2014 - Current Contents). ISSN 1420-3049.
- ADCA06 BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - DRÁFI, František - MIHALOVÁ, Danica - PAULOVÍČOVÁ, Ema - VOLPI, Nikola. Effect of nonanimal high- and low-molecular-mass chondroitin sulfates produced by a biotechnological process in an animal model of polyarthritis. In Pharmacology : International journal of experimental and clinical pharmacology, 2014, vol. 94, no.

- 3-4, p. 109-114. (1.581 - IF2013). (2014 - Current Contents). ISSN 0031-7012.
- ADCA07 BELLA, Maroš - MILATA, Viktor. Application of 9-ethyl(1,2,5)selenadiazolo(3,4-h)quinolones in the synthesis of tricyclic azoloquinolones. In Tetrahedron, 2014, vol. 70, p. 4814-4819. (2.817 - IF2013). (2014 - Current Contents). ISSN 0040-4020.
- ADCA08 BELLA, Maroš - STEINER, Bohumil - LANGER, Vratislav - KOÓŠ, Miroslav. Reaction of selected carbohydrate aldehydes with benzyl-magnesium halides: benzyl versus o-tolyl rearrangement. In Beilstein Journal of Organic Chemistry, 2014, vol. 10, p. 1942-1950. ISSN 978-3-540-32911-4.
- ADCA09 BELLA, Maroš - MILATA, Viktor. Synthesis of 9-ethyl(1,2,5)selenadiazol(3,4-h)quinolones by the application of modified Gold-Jacobs reaction to N-ethyl-2,1,3-benzoselenadiazol-4amine. In Arkivoc : Online Journal of Organic Chemistry, 2014, part (v), vol. 2014, p. 181-198. ISSN 1424-6376.
- ADCA10 BERTÓK, Tomáš - ŠEDIVÁ, Alena - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Comparison of the 2D and 3D nanostructured lectin-based biosensors for In situ detection of sialic acid on glycoproteins. In International Journal of Electrochemical Science, 2014, vol. 9, p. 890-900. (1.956 - IF2013). (2014 - Current Contents). ISSN 1452-3981.
- ADCA11 BIELY, Peter - PUCHART, Vladimír - STRINGER, Marry Ann - MORKEBERG KROGH, Kristian B.R. Trichoderma reesei XYN VI - a novel appendage-dependent eukaryotic glucuronoxylan hydrolase. In FEBS Journal, 2014, vol. 281, p. 3894-3903. (3.986 - IF2013). (2014 - Current Contents). ISSN 1742-464X.
- ADCA12 BIELY, Peter - CZISZÁROVÁ, Mária - WONG, Ken K.Y. - FERNYHOUGH, Alan. Enzymatic acylation of flavonoid glycosides by a carbohydrate esterase of family 16. In Biotechnology Letters, 2014, vol. 36, p. 2249-2255. (1.736 - IF2013). (2014 - Current Contents). ISSN 0141-5492.
- ADCA13 BIELY, Peter - CZISZÁROVÁ, Mária - AGGER, Jane W. - LI, Xin-Liang - PUCHART, Vladimír - VRŠANSKÁ, Mária - EIJSINK, Vincent G. H. - WESTERENG, Bjorge. Trichoderma reesei CE16 acetyl esterase and its role in enzymatic degradation of acetylated hemicellulose. In Biochimica et Biophysica Acta : General subjects, 2014, vol. 1840, p. 516-525. (3.829 - IF2013). (2014 - Current Contents). ISSN 0304-4165.
- ADCA14 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. A theoretical study on the catalytic mechanism of the retaining alfa-1,2-mannosyltransferase Kre2p/Mnt1p: the impact of different metal ions on catalysis. In Organic and Biomolecular Chemistry, 2014, vol. 12, p. 4201-4210. (3.487 - IF2013). (2014 - Current Contents). ISSN 1477-0520.
- ADCA15 BUČEKOVÁ, Marcela - VALACHOVÁ, Ivana - KOHÚTOVÁ, Lenka - PROCHÁZKA, Emanuel - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Honeybee glucose oxidase-its expression in honeybee workers and comparative analyses of its content and H₂O₂-mediated antibacterial activity in natural honeys. In Naturwissenschaften, 2014, vol. 101, no. 8, p. 661-670. (1.971 - IF2013). (2014 - Current Contents). ISSN 0028-1042.
- ADCA16 CAPEK, Peter - PAULOVICHOVÁ, Ema - MATULOVÁ, Mária - MISLOVIČOVÁ, Danica - NAVARINI, Luciano - SUGGI-LIVERANI, Furio. Coffea arabica instant coffee- Chemical view and immunomodulating properties. In Carbohydrate Polymers, 2014, vol. 103, p. 418-426. (3.916 - IF2013). (2014 - Current Contents). ISSN 0144-8617.
- ADCA17 DEMOVIČOVÁ, Lucia - HOBZA, Pavel - ŘEZÁČ, Jan. Evaluation of composite schemes for CCSDT(Q) calculations of interaction energies of noncovalent complexes. In Physical Chemistry Chemical Physics, 2014, vol. 16, p. 19115-19121. (4.198 - IF2013). (2014 - Current Contents). ISSN 1463-9076.
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- nanocomposite for construction of efficient bilirubin oxidase-based biocathodes and stable biofuel cells. In International Journal of Electrochemical Science, 2014, vol. 9, p. 2491-2560. (1.956 - IF2013). (2014 - Current Contents). ISSN 1452-3981.
- ADCA19 FILIP, Jaroslav - TKÁČ, Ján. The pH dependence of the cathodic peak potential of the active sites in bilirubin oxidase. In Bioelectrochemistry, 2014, vol. 96, p. 14-20. (3.870 - IF2013). (2014 - Current Contents). ISSN 1567-5394.
- ADCA20 FILIP, Jaroslav - TKÁČ, Ján. Is graphene worth using in biofuel cells?. In Electrochimica Acta, 2014, vol. 136, p. 340-354. (4.086 - IF2013). (2014 - Current Contents). ISSN 0013-4686.
- ADCA21 FILIP, Jaroslav - TKÁČ, Ján. Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. In Electrochemistry Communications, 2014, vol. 49, p. 70-74. (4.287 - IF2013). (2014 - Current Contents). ISSN 1388-2481.
- ADCA22 FILIP, Jaroslav - TKÁČ, Ján. Enzýmové biopalivové články. In Chemické listy, 2014, vol. 108, p. 442-450. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770.
- ADCA23 FLEISCHHACKEROVÁ, Anna, Slimáková - FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Glycoconjugate vaccines. Glykokonjugované vakcíny. In Chemické listy, 2014, vol. 108, p. 120-126. (0.196 - IF2013). (2014 - Current Contents). ISSN 0009-2770.
- ADCA24 FLEISCHHACKEROVÁ, Anna, Slimáková - FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Slavomír. Preparation and immunogenicity of conjugate based on hydrazine treated lipopolysaccharide antigen of Vibrio cholerae 0139. In Bioscience, Biotechnology and Biochemistry, 2014, vol. 78, p. 1817-1824. (1.206 - IF2013). (2014 - Current Contents). ISSN 0916-8451.
- ADCA25 HRICOVÍN, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Olga. NMR and DFT analysis of trisaccharide from heparin repeating sequence. In Journal of Physical Chemistry B, 2014, vol. 118, no. 41, p. 11931-11942. (3.377 - IF2013). (2014 - Current Contents). ISSN 1520-6106.
- ADCA26 HRICOVÍNIOVÁ, Zuzana - HRICOVÍN, Miloš. An efficient of novel L-rhamnose based non-ionic surfactants under controlled microwave irradiation. In Tetrahedron : Asymmetry, 2014, vol. 25, p. 1008-1014. (2.165 - IF2013). (2014 - Current Contents). ISSN 0957-4166.
- ADCA27 HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana - VRCHOTOVÁ, Nadežda - EBRINGEROVÁ, Anna. Non- cellulosic polysaccharides from the leaves of small balsam (Impatiens parviflora DC.). In Carbohydrate Research, 2014, vol. 389, p. 147-153. (1.966 - IF2013). (2014 - Current Contents). ISSN 0008-6215.
- ADCA28 HURAN, Jozef - BALALYKIN, Nikolay I. - FESHCHENKO, A.A. - KOBZEV, Alexander P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta - HRUBČÍN, Ladislav. Transmission photocathodes based on stainless steel mesh coated with deuterated diamond like carbon films. In Nuclear Instruments and Methods in Physics Research A, 2014, vol. 753, p. 14-18. (1.316 - IF2013). (2014 - Current Contents). ISSN 0168-9002.
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- AFHA23 KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor. Catalytic mechanism of glycosyltransferases: insight from molecular modeling. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava, Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. s. 78. ISBN 978-80-970164-6-3.
- AFHA24 KÓŇA, Juraj - BOBOVSKÁ, Adela - TVAROŠKA, Igor - JANDOVÁ, Zuzana - HOLKOVÁ, Ivana - POLÁKOVÁ, Monika - ŠESTÁK, Sergej. In silico design of selective inhibitors of human golgi alfa-mannosidase II. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, P14, p. 102. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA25 KOVÁČOVÁ, Kristína - FARKAŠ, Vladimír - POPOLO, Laura. The biochemical characterization of Phr1 and Phr2 transglycosylases of the Candida albicans cell wall. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 41st

- AFHA26 Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014. PH8, p. 48. ISSN 1336-4839. KOVÁČOVÁ, Kristína - FARKAŠ, Vladimír. Substrate specificity of CRH1 and CRH2 transglycosylases of the *Saccharomyces cerevisiae* cell wall. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava, Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. P054, s. 173. ISBN 978-80-970164-6-3.
- AFHA27 KUMARI, Manju - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Exploring the reaction mechanism of O-GlcNAc transferase using QM/MM molecular dynamics. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, OP19, p. 63. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA28 NEMČOVIČOVÁ, Ivana - NEMČOVIČ, Marek - KÚDELOVÁ, Marcela. Revealed binding mechanism of cytomegalovirus immune modulator UL141 highlights its versatility for NK cell function inhibition. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava, Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. P072, s. 197. ISBN 978-80-970164-6-3.
- AFHA29 PAKANOVÁ, Zuzana - MATULOVÁ, Mária - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna - HLAVATÁ, Anna - PÄTOPRSTÝ, Vladimír - MUCHA, Ján. Spectral analysis in diagnostics of Pompe disease in Slovakia. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, P337, p. 121. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA30 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - MIKULEC, Marcel - KRONEKOVÁ, Zuzana - KRONEK, Juraj. In vitro immunological activity of poly (2-isopropenyl-2-oxazoline) as material for biomedical applications. In Programme and Abstract Book: 11th EFIS-EJI Tatra Immunology Conference: Molecular Determinants of T-Cell Immunity, September 6-10, 2014, Štrbské Pleso, Slovakia. Genova: EFIS, 2014. p. 06-10.
- AFHA31 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - PILIŠIOVÁ, Ružena - BYSTRICKÝ, Slavomír - YASHUNSKY, Dmitri V. - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Candida albicans cell wall glycan antigens - novel tools to study host-pathogen interactions. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 41st Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014. P14, p. 63. ISSN 1336-4839.
- AFHA32 PIHÍKOVÁ, Dominika - TKÁČ, Ján. Lectin-antibody based biosensors strategy for cancer diagnosis. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, P36, p. 124. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA33 PUCHART, Vladimír - BIELY, Peter. Complementarity of substrate specificity of endo-acting acetylxyln esterases and CE16 exodeacetylases. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, FL47, p. 76. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA34 PUCHART, Vladimír - BIELY, Peter. Acetyl group migration and microbial enzymes deacetylating xylan and xylooligosaccharides. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava,

- Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. s. 80. ISBN 978-80-970164-6-3.
- AFHA35 SASINKOVÁ, Vlasta - HURAN, Jozef - KLEINOVÁ, Angela - KULIKOV, Sergey A. Raman spectroscopy study of PECVD silicon carbide thin films irradiated with neutrons. In VALÚCHOVÁ, Jana (ed.). Book of Abstracts: 11th Conference on Solid State Chemistry (SSC 2014), July 6-11, 2014, Trenčianske Teplice, Slovakia. Bratislava: Institute of Inorganic Chemistry SAS and Slovak Glass Society Association of Slovak Scientific and Technological Societies, 2014, 2014, p. 162.
- AFHA36 SCHENKMAYEROVÁ, Andrea - ILLÉSOVÁ, Anikó - ŠEFČOVIČOVÁ, Jana - ŠTEFUCA, Vladimír - BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - GEMEINER, Peter - TKÁČ, Ján - KATRLÍK, Jaroslav. Gluconobacter oxydans biosensors for natural aroma biosynthesis monitoring. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, OP16, p. 60. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA37 SULOVÁ, Zdena - ŠEREŠ, Mário - HANO, Milan - PAVLÍKOVÁ, Lucia - MISLOVIČOVÁ, Danica - BREIER, Albert. Expresia P-glykoproteínu v myších leukemických bunkách L1210 vedie k remodelácii povrchových sacharidov a ovplyvňuje glykozyláciu v endoplazmatickom retikule. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava, Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. P049, s. 79. ISBN 978-80-970164-6-3.
- AFHA38 ŠEDIVÁ, Alena - ROBAJAC, Dragana - MILJUŠ, Goran - ŠUNDERIČ, Miloš - GEMEINER, Peter - NEDIČ, Olgica - KATRLÍK, Jaroslav. Study of glycosylation changes in colorectal cancer using lectin microarray. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, P39, p. 127. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA39 ŠEDIVÁ, Mária - BRTKOVÁ, Andrea - KOHÚTOVÁ, Lenka - MAJTÁN, Juraj - KLAUDINY, Jaroslav. Antibacterial activity of 10-hydroxy-2-decenoic acid against honeybee larval pathogen Paenibacillus larvae. In Zborník prednášok a posterov: XXIV. Biochemický zjazd SSBMB a ČSBMB, 18.-21.9.2014, Bratislava, Slovensko. Bratislava: SSBMB a ÚMFG SAV, 2014. P091, s. 220. ISBN 978-80-970164-6-3.
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- AFHA42 TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Combined QM/MM MERP and PES calculations on retaining glycosyltransferase PPGALNACT2. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics",

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- AFHA43 TURÁNEK, Jaroslav - KNOTIGOVÁ, Pavlína - ČELECHOVSKÁ, Hana - BARTHELDYOVÁ, Ekliška - MAŠEK, Josef - KULICH, Pavel - LUKÁČ, Róbert - LIPENSKÁ, Ivana - MAŠKOVÁ, Darina - PAULOVÍČOVÁ, Ema - LEDVINA, Miroslav - MILLER, Andrew D. - RAŠKA, Milan. Mannan - molecular adjuvans for liposome recombinant vaccines. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 41st Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014. L20, p. 34. ISSN 1336-4839.
- AFHA44 VADKERTIOVÁ, Renáta - MOLNÁROVÁ, Jana - LUX, Alexander - LIŠKOVÁ, Desana - VACULÍK, Marek. The tolerance of yeasts to various chemical elements. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 41st Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014. P9, p. 58. ISSN 1336-4839.
- AFHA45 VATEHOVÁ, Zuzana - KOLLÁROVÁ, Karin - MALOVÍKOVÁ, Anna - LIŠKOVÁ, Desana. Structural remodelling of cell walls under toxic metal stress in monocots. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, P26, p. 114. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA46 VLČKOVÁ, Silvia - PÄTOPRSTÝ, Vladimír - LUTIŠAN, Juraj - MEZEY, Jakub - MISTRÍK, Róbert. A new software for automated acquisition of MSN spectral trees on Orbitrap hybrid mass spectrometers. In KATRLÍK, Jaroslav - BARÁTH, Marek (eds.). Proceedings of the 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", June 22-26, 2014, Smolenice, Slovakia. - Bratislava : Institute of Chemistry SAS, 2014, P35, p. 123. ISBN 978-80-971665-0-2. ISSN 1339-7036.
- AFHA47 VRŠANSKÁ, Martina - VOBĚRKOVÁ, Stanislava - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva - OMELKOVÁ, Jiřina. The characterization of lipases produced by yeasts. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 41st Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014. P3, p. 52. ISSN 1336-4839.
- AFHA48 ZICHOVÁ, Miroslava - BABÁK, Libor - ROSENBERG, Michal - STRATILOVÁ, Eva - OMELKOVÁ, Jiřina. Ethanol production from waste paper using immobilized *Saccharomyces cerevisiae* cells. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 41st Annual Conference on Yeast, May 20-23, 2014, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2014. P8, p. 57. ISSN 1336-4839.

AFHB Abstrakty príspevkov z domácich konferencií

- AFHB01 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - SASINKOVÁ, Vlasta - MENDICHI, Raniero - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical-mediated hyaluronan degradation in vitro: effect of N-(2-mercapto-2-methylpropionyl)-L-cysteine. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2014: Interaktívna konferencia mladých vedcov, 7.5.-6.6.2014. - Banská Bystrica : Občianske združenie PREVEDA, 2014, abstrakt. č. 1065. ISBN 978-80-970712-6-4.
- AFHB02 BERTÓK, Tomáš - TKÁČ, Ján. Analýza glykoproteínov a glykoprofilácia reálnych vzoriek s využitím nanoštruktúrovaných elektrochemických biosenzorov. In

- FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2014: Interaktívna konferencia mladých vedcov, 7.5.-6.6.2014. - Banská Bystrica : Občianske združenie PREVEDA, 2014, abstrakt. č. 931. ISBN 978-80-970712-6-4.
- AFHB03 CHUPÁČOVÁ, Jaroslava - ŠUPOLÍKOVÁ, Miroslava - PAULOVÍČOVÁ, Ema - BUJDÁKOVÁ, Helena. Vplyv peptidu CR3-RP s DING motívom na prežívanie kvasinky *Candida albicans*. In Zborník: Konferencia mladých mikrobiológov: Čo nového v mikrobiológii, 13.-16.3.2014, Štrbské Pleso. s. 16.
- AFHB04 POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Transglykozylácia tyrozolu: enzymatická syntéza salidrozidu a jeho analógu tyrozol galaktozidu. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2014: Interaktívna konferencia mladých vedcov, 7.5.-6.6.2014. - Banská Bystrica : Občianske združenie PREVEDA, 2014, abstrakt. č. 959. ISBN 978-80-970712-6-4.
- AFHB05 PUCHART, Vladimír. Carbohydrate phosphorylases - an intermediate between glycosyltransferases and glycoside hydrolases? In Naše proteíny 2014 - Štruktúra a funkcia. 3. Konferencia o proteínoch, Bratislava 15.-16.4.2014. - Bratislava : Ústav molekulárnej biológie SAV, 2014, p. 24-25. ISBN 978-80-971617-0-5.

FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky...)

- FAI01 Interaktívna konferencia Mladých vedcov 2014 - Zborník abstraktov. Eds.: Miroslav Ferko, Pavol Farkaš. Bratislava : Občianske združenie PREVEDA, 2014. ISBN 978-80-970712-6-4.
- FAI02 41st Annual Conference on Yeasts, Smolenice, Slovakia, May 20-23, 2014 : Programme, Abstracts. Eds.: Ivan Hapala, Emília Breierová. Bratislava : Ústav biochémie a genetiky živočíchov SAV, 2014. ISSN 1336-4839.
- FAI03 13th Bratislava Symposium on Saccharides "Recent Advances in Glycomics", Smolenice, June 22-26, 2014 - Proceedings. Eds: Jaroslav Katrlík, Marek Baráth. Bratislava : Chemický ústav SAV, 2014. ISBN 978-80-971665-0-2. ISSN 1339-7036.

GHG Práce zverejnené na internete

- GHG01 HURAN, Jozef - BOHÁČEK, Pavol - KULIKOV, S.A. - BULAVIN, M.V. - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - KOBZEV, A.P. - SEKÁČOVÁ, Mária - ARBET, Juraj. Radiation hardness investigation of PECVD silicon carbide layers for PV applications. In Photovoltaic Specialist Conference (PVSC) : 2014 IEEE 40th [elektronický zdroj], p. 1815-1820. Dostupné na internete: <<http://dx.doi.org/10.1109/PVSC.2014.6925275>>.

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

- GII01 BIELY, Peter. 41st Annual Conference on Yeasts of the Czech and Slovak Commission on Yeasts, Smolenice, Slovakia, May 20-23, 2014. In Yeast Newsletter, 2014, vol. LXIII, no. II, p. 19-22. ISSN 0513 5222.
- GII02 BIELY, Peter. Probiotiká versus prebiotiká. In Správy Slovenskej akadémie vied, 2014, roč. 50, č. 9, s. 8-9. ISSN 0139-6307.
- GII03 BIELY, Peter. Kolíska nobelovských laureátov : Na návšteve v anglickom Cambridgi. In Správy SAV, 2014, vol. 50, p. 8-9. ISSN 0139-6307.
- GII04 BIELY, Peter. Čo sú prebiotiká? In Quark : magazín o vede a technike, 2014, roč. XX, č. 4, s. 30-31. ISSN 1337-8422.

- GII05 MASTIHUBA, Vladimír - OMASTOVÁ, Mária. VEDA V CENTRE s osobnosťami chémie. In ChemZi, 2014, vol. 10, p. 26. ISSN 1336-7242.
- GII06 MASTIHUBA, Vladimír. Chemické horizonty - jarný cyklus 2014. In ChemZi, 2014, vol. 10, p. 26. ISSN 1336-7242.
- GII07 MASTIHUBA, Vladimír. Chemické horizonty - jesenný cyklus 2013. In ChemZi, 2013, vol. 9, p. 292. ISSN 1336-7242.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

RNDr. Desana Lišková, PhD.

Názov semestr. predmetu: Regulačné molekuly v raste, morfogénéze a obranných procesoch rastlín (1. roč. Mgr. štúdia, študijný odbor Biológia)

Počet hodín za semester: 12

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

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 (3. roč. Bc. štúdia)

Ing. Igor Tvaroška, DrSc.

Názov semestr. predmetu: Teória chemickej väzby

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra chémie (2. roč. Mgr. štúdia)

Semestrálne cvičenia:

Ing. Peter Kis

Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie (2. roč. Bc. štúdia)

Počet hodín za semester: 65

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

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. Vladimír Mastihuba, PhD.

Názov semestr. predmetu: Semestrálny projekt II (1. roč. Mgr. štúdia)

Počet hodín za semester: 52

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

Ing. Vladimír Mastihuba, PhD.

Názov semestr. predmetu: Semestrálny projekt III (2. roč. Mgr. štúdia)

Počet hodín za semester: 78

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

Ing. Igor Tvaroška, DrSc.

Názov semestr. predmetu: Počítačové modelovanie v chémii

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra chémie (1. roč. Mgr. štúdia)

Semináre: – – –

Terénne cvičenia: – – –

Individuálne prednášky:

Ing. Vladimír Mastihuba, PhD.

Názov semestr. predmetu: Aplikácia biokatalýzy v chémii sacharidov (v rámci predmetu Nové trendy v organickej chémii - 2. roč. Bc. štúdia)

Počet hodín za semester: 1

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

Ing. Mária Mastihubová, PhD.

Názov semestr. predmetu: Cukry a enzýmy (v rámci predmetu Nové trendy v organickej chémii - 2. roč. Bc. štúdia)

Počet hodín za semester: 1

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

Ing. Ján Tkáč, DrSc.

Názov semestr. predmetu: Citlivá analýza glykánov v diagnostike (v rámci predmetu Vybrané kapitoly z biochémie a molekulárnej biológie 1 - študijný odbor Biochémia)

Počet hodín za semester: 2

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

Ing. Renáta Vadkertiová, PhD.

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

Počet hodín za semester: 2

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
Belgicko					Jaroslav Katrlík	6
Brazília					Peter Biely	14
Česko			Peter Capek	6	Marek Baráth	1
					Štefan Belický	3
					Tomáš Bertók	3
					Anikó Bertóková	3
					Emília Breierová	2
					Marek Bučko	1
					Pavel Damborský	3
					Peter Gemeiner	2
					Miloš Hricovíni	1
					András Hushegyi	3
					Andrej Chyba	7
					Jaroslav Katrlík	1
					Jaroslav Klaudiny	2
					Tomáš Klunda	4
					Tomáš Krajčovič	1
					Júlia Mičová	365
					Dominika Pihíková	3
					Elena Potocká	4
					Andrea Schenkmayerová	1
					Ján Tkáč	1
					Jozef Turjan	1
					Igor Tvaroška	27
Francúzsko	Iveta Uhliariková	13	Mária Matulová	32	Soňa Garajová	365
					Ivan Zelko	365
Japonsko					Peter Biely	17
Kanada					Erika Lattová	365
Poľsko			Peter Capek	13		
Portugalsko					Pavel Damborský	24
Rakúsko					Marek Baráth	1
					Štefan Belický	2
					Peter Bystrický	1
					Pavel Damborský	2
					Jaroslav Katrlík	1
					Ľudmila Kluková	2
					Marek Nemčovič	1
					Zuzana Pakanová	187
					Dominika Pihíková	2
					Martina Zámorová	1

Španielsko					Peter Biely	45
Taliansko					Vladimír Farkaš	4
					Jaroslav Katrlík	3
Veľká Británia					Štefan Belický	29
					Peter Biely	5
Počet vyslaní spolu	1	13	3	51	46	1905

(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			Alena Jurnečková	31	Ing. Kamil Motyka, PhD.	1
			Barbora Pavlatovská	31	Ing. Radim Horák	90
			Bc. Jakub Jäger	140		
			Bc. Vojtěch Ledvina	31		
			Bc. Dominika Hamříková	31		
			Ing. Miroslava Zichová	156		
			Kamila Velinská	85		
			Zuzana Vlčková	85		
Japonsko					Prof. Masahiro Samejima	1
Nórsko					Dr. Bjorge Westereng	1
Poľsko			Ing. Marta Lewik-Tsirigotis, PhD.	6		
			Ing. Rafał Ziewiecki	80		
			Ing. Sebastian Balicki	6		
Turecko					Dr. Tuncay Yilmaz	21
Počet prijatí spolu			11	682	5	114

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	COST Action FP1306	Vladimír Mastihuba	5
	COST BMBS-DC-MH	Ladislav Petruš	4
	COST CMST-DC-MH	Ladislav Petruš	4
Cyprus	ECIS 2014	Jaroslav Katrlík	6
Česko	15. Škola HS	Silvia Vlčková	6
	1st FEBS-INSTRUCT	Zuzana Firáková	7

		Kristína Kováčová	7
	5th REMACO	Ján Tkáč	1
	6. Metodické dny-MPS	Karin Kollárová	5
		Zuzana Vatehová	5
	66. SCHS	Ján Hirsch	6
	9. MCM	Ružena Pilišiová	2
		Anna Slimáková	2
	Biotech 2014	Vladimír Farkaš	4
	CEITEC Annual Conference	Štefan Belický	4
		Pavel Damborský	4
		Ľudmila Kluková	4
		Dominika Pihíková	4
	Glycoscience2014	Peter Capek	4
		Ján Hirsch	5
		Zuzana Košťálová	3
	MS 2014	Vlasta Sasinková	3
	Workshop IT-SEM-ESEM	Marek Bučko	6
		Andrea Schenk Mayerová	6
	XVI. SBMB	Zuzana Firáková	4
		Kristína Kováčová	4
	XXI. Biologické dny	Tomáš Bertók	2
		Alena Šedivá	2
Čile	3rd Symposium on BAL	Peter Biely	7
Francúzsko	4th RPP 2014	Jaroslav Katrlík	4
	COST-EUBis-CFW-WFWR	Zdenka Hromádková	3
India	ICS 2014	Ján Mucha	6
Írsko	FESPB/EPSO 2014	Zuzana Vatehová	6
Island	COST CMST-APC	Ladislav Petruš	6
Kuba	Labiofam 2014	Peter Capek	8
		Mária Matulová	8
Maďarsko	COST CMST Action CM1106	Juraj Kóna	4
Malta	COST BMBS-APC	Ladislav Petruš	4
Poľsko	7th CEC-CTB	Miloš Hricovíni	4
	COST Action FP1306-MCM	Vladimír Mastihuba	5
Portugalsko	XXIII ISMC 2014	Juraj Kóna	7
		Monika Poláková	7
Rakúsko	25th MassSpec Forum	Marek Nemčovič	2
		Zuzana Pakanová	3
		Eva Stratilová	3
	OxiZymes	Karin Kollárová	3
Rusko	Phytopharm 2014	Peter Capek	7
Slovinsko	COST CMST-DC-MH	Ladislav Petruš	4
	ISSY31	Kristína Kováčová	5
Španielsko	24th ECCMID 2014	Jana Korcová	6
		Ružena Pilišiová	6
		Anna Slimáková	6
	COST BMBS-DC-MH	Ladislav Petruš	4
	ECCO XXXIII	Renáta Vadkertiová	4
Švédsko	6th ICSA	Ivan Zelko	5
Taliansko	75th National Conference UZI	Pavel Damborský	4

	EBC 2014	Jaroslav Filip	6
		Andrea Schenk Mayerová	6
		Jana Šefčovičová	6
	MultiGlycoNano 2014	Juraj Kóna	5
		Ladislav Petruš	4
		Monika Poláková	5
	Training School Systems Biocatalysis	Klaudia Talafová	7
Turecko	COST Action FA0905-FC	Desana Lišková	4
	FEBS-ALC	Ján Mucha	6
USA	30th Asilomar Conference	Zuzana Pakanová	6
Veľká Británia	COST Action TD1203-MCM	Zdenka Hromádková	3
	ESUR2014	Štefan Belický	5
	INSTRUCT-CM	Miloš Hricovíni	2
	PROSENSE	Štefan Belický	7
		Pavel Damborský	7
		Jaroslav Katrlík	6
		Ján Tkáč	6
	Total Food 2014	Zuzana Košťálová	7
	VIBRIO 2014	Anna Slimáková	3
Spolu	51	75	362

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

Skratky použité v tabuľke C:

15. Škola HS - 15. Škola hmotnostní spektrometrie
1st FEBS-INSTRUCT - The 1st FEBS-INSTRUCT Practical Crystallization Course in the middle EU: Advanced Methods in Macromolecular Crystallization VI
24th ECCMID 2014 - 24 th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID 2014)
25th MassSpec Forum - 25th MassSpec Forum
30th Asilomar Conference - 30th Asilomar Conference on Mass Spectrometry: Advances in Glycomics and Glycoproteomics: Methods and Applications
3rd Symposium on BAL - 3rd Symposium on Biotechnology Applied in Lignocellulosics
4th RPP 2014 - 4th Global Reverse Phase Protein Array Workshop
5th REMACO - 5th REMACO Joint Meeting
6. Metodické dny-MPS - 6. Metodické dny: Methods in Plant Sciences
66. SCHS - 66. Sjezd chemických společností
6th ICSA - 6th International Conference on Silicon in Agriculture
75th National Conference UZI - 75th National Conference of the Unione Zoologica Italiana
7th CEC-CTB - 7th Central European Conference "Chemistry towards Biology"
9. MCM - 9. Motolský cytometrický minikurz
Biotech 2014 - Biotech 2014 and 6th Czech-Swiss Symposium
CEITEC Annual Conference - CEITEC Annual Conference Brno 2014: Frontiers in Material and Life Sciences
COST Action FA0905-FC - Final Conference of the COST Action FA0905: Agronomic, Molecular Genetics and Human Nutrition Approaches for Improving the Nutritional Quality and Safety of Food Crops
COST Action FP1306 - COST Action FP1306 - Management Committee Meeting
COST Action FP1306-MCM - COST Action FP1306 Management Committee Meeting
COST Action TD1203-MCM - 3rd Management Committee Meeting of COST Action TD1203
COST BMBS-APC - COST BMBS Annual Progress Conference
COST BMBS-DC-MH - COST BMBS DC Meeting & Hearings
COST CMST Action CM1106 - EU COST CMST Action CM1106 - Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells: 2nd Working Group Meeting
COST CMST-APC - COST CMST Annual Progress Conference
COST CMST-DC-MH - COST CMST DC Meeting & Hearings
COST-EUBis-CFW-WFWR - COST-EUBis: Chemicals from Food Waste - Workshop on Food Waste Revalorisation
EBC 2014 - European Biotechnology Congress 2014
ECCO XXXIII - ECCO XXXIII - Molecular Taxonomy from biodiversity to biotechnology: 33rd Annual Meeting of

the European Culture Collections' Organisation
ECIS 2014 - ECIS 2014 - 28th Conference of the European Colloid and Interface Society
ESUR2014 - ESUR2014: 22nd Meeting of the EAU Section of Urological Research
FEBS-ALC - FEBS Advanced Lecture Course, 360° Lysosome: from structure to genomics, from function to disease
FESPB/EPSO 2014 - Plant Biology Europe FESPB/EPSO 2014 Congress
Glycoscience2014 - Glycoscience 2014 - 10th International Conference on Polysaccharides
ICS 2014 - 27th International Carbohydrate Symposium (ICS 2014)
INSTRUCT-CM - INSTRUCT Council Meeting
ISSY31 - 31st International Specialised Symposium on Yeast
Labiofam 2014 - International Congress LABIOFAM 2014 with the CUBAN 5
MS 2014 - Molekulová spektroskopia 2014
MultiGlycoNano 2014 - MultiGlycoNano 2014 - COST Action CM1102 Working Group Meeting
OxiZymes - OxiZymes
Phytopharm 2014 - The 18th International Congress "Phytopharm 2014"
PROSENSE - Workshop, Supervisory Board Meeting and Summer School - project PROSENSE (FP7-PEOPLE-2012-ITN)
Total Food 2014 - Total Food 2014: Science and Technology for the Economic and Sustainable Exploitation of Agri-food Chain Wastes and Co-products
Training School Systems Biocatalysis - Training School Systems Biocatalysis - CMST COST Action CM1303 Training School "Systems Biocatalysis"
VIBRIO 2014 - VIBRIO 2014
Workshop IT-SEM-ESEM - Workshop of Interesting Topics of SEM and ESEM
XVI. SBMB - XVI. SBMB - XVI. Setkání biochemiků a molekulárních biologů
XXI. Biologické dny - XXI. Biologické dny
XXIII ISMC 2014 - XXIII. International Symposium on Medicinal Chemistry

Ohlasy (citácie):

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 BIELY, Peter. Biochemical aspects of the production of microbial cellulases. In Hemicellulose and Hemicellulases. - London : Portland Press, 1993, p. 29-51. ISBN 9781855780361.
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- ABC02 COUGHLAN, M.P. - TUOHY, M.G. - FILHO, E.X.F. - PULS, J. - CLAEYSSSENS, M. - VRŠANSKÁ, Mária - HUGHES, M.M. Enzymological aspects of microbial hemicellulases with emphasis on fungal systems. In Hemicellulose and Hemicellulases, 1993. P. 53-84. ISSN 9781855780361.
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- ABC03 KOGAN, Grigorij - ŠOLTÉS, Ladislav - STERN, Robert - SCHILLER, Jürgen - MENDICHI, Raniero. Hyaluronic acid: its function and degradation in vivo systems. In Bioactive natural products (Part N). - Amsterdam : Elsevier, 2008, p.789-882. ISBN 978-0-444-53180-3.
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1. [1.1] SADHASIVAM, G. - MUTHUVEL, A. - PACHAIYAPPAN, A. - THANGAVEL, B. Isolation and characterization of hyaluronic acid from the liver of marine stingray *Aetobatus narinari*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2013, vol. 54, p. 84-89., WOS
- ABC04 PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - HRICOVÍNIOVÁ, Zuzana. The Bilik reaction. In Topics in Current Chemistry. Glycoscience: Epimerization and Rearrangement Reactions of Carbohydrates. - Berlin : Springer Verlag, 2001, p. 15-41. ISBN 3-540-41383-9.
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2. [1.1] Neveu, M (Neveu, Marc); Kim, HJ (Kim, Hyo-Joong); Benner, SA (Benner, Steven A.), In: *ASTROBIOLOGY Volume: 13 Issue: 4 Pages: 391-403, WOS*
3. [1.1] Rai, N (Rai, Neeraj); Caratzoulas, S (Caratzoulas, Stavros); Vlachos, DG (Vlachos, Dionisios G.), In: *ACS CATALYSIS Volume: 3 Issue: 10 Pages: 2294-2298, WOS*
- ABC05 REXOVA-BENKOVA, L. - MARKOVIČ, Oskar. Pectic enzymes. In Advances in Carbohydrate Chemistry and Biochemistry, 1976, vol. 33, p. 323- 385.
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4. [1.2] Murad, H. A., & Azzaz, H. H., In: *Journal of Microbiology*, Vol. 6, (2011), 246-269., SCOPUS
5. [1.2] Patel, P. R., & Ramana Rao, T. V. , In: *International Journal of Fruit Science*, Vol. 11, (2011), 30-40., SCOPUS
- ABC06 SCHILLER, Jürgen - VOLPI, Nikola - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Hyaluronic acid: a natural biopolymer : chapt. 1. In Biopolymers: biomedical and environmental applications. - Salem : Scrivener : Wiley, 2011, p. 3-34. ISBN 978-0-470-63923-8. VEGA 2/0056/10, VEGA 2/0011/11.
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ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

- ACB01 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Xylans of industrial and biomedical importance. In Biotechnology and genetic engineering reviews, 1999, vol. 16, o. 325-346. ISSN 0264-8725.
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 - [1.1] Froschauer, C (Froschauer, Carmen); Hummel, M (Hummel, Michael); Iakovlev, M (Iakovlev, Mikhail); Roselli, A (Roselli, Annariikka); Schottenberger, H (Schottenberger, Herwig); Sixta, H (Sixta, Herbert), In: *BIOMACROMOLECULES* Volume: 14 Issue: 6 Pages: 1741-1750, WOS
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 - [1.1] Peng, D (Peng, Di); Zhou, XS (Zhou, Xuesong), In: *PROCEEDING OF THE 4TH INTERNATIONAL CONFERENCE ON PULPING, PAPERMAKING AND BIOTECHNOLOGY 2012, (ICPPB '12), VOLS. I AND II* Pages: 217-220, WOS
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 - [1.2] Heinze, T., & Liebert, T., In: *Polymer Science: A Comprehensive Reference* (eds. J.E. McGrath, M.A. Hickner, R. Höfer). Vol. 10: *Polymers for a Sustainable Environment and Green Energy*, 2012, Chapter 10.05, pp. 83-152., SCOPUS

ADC Vedecké práce v zahr. karent. časopisoch a recenzovaných zborníkoch

- ADC01 CAPEK, Peter - RENARD, C.M.G.C. - THIBAUT, J.F. Enzymatic degradation of cell walls of apples and characterization of solubilized products. In International Journal of Biological Macromolecules, 1995, vol. 17, no. 6, p. 337-340. ISSN 0141-8130.
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- ADC02 ČAPEK, P. - UHRIN, D. - ROSIK, J. - KARDOŠOVÁ, Alžbeta - TOMAN, Rudolf - MIHALOV, V. Polysaccharides from the roots of the marsh mallow (*Althaea officinalis* L., var. Rhobusta): dianhydrides of oligosaccharides of the aldose type. In Carbohydrate Research, 1988, vol. 182, p. 160-165. ISSN 0008-6215.
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- ADC03 ČAPEK, P. - KARDOŠOVÁ, Alžbeta. Polysaccharides from the flowers of *Malva mauritiana* L.: Structure of an arabinogalactan. In Collection of Czechoslovak chemical communications. - Praha : Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, 1995, vol. 60, p. 2112-2118. (0.467 - IF1994). ISSN 0010-0765.
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- ADC04 EBRINGEROVÁ, Anna - SROKOVA, I. - TALABA, P. - KAČURÁKOVÁ, Marta - HROMÁDKOVÁ, Zdena. Amphiphilic beechwood glucuronoxylan derivatives. In Journal of Applied Polymer Science, 1998, vol. 67, no. 9, p. 1523. (0.841 - IF1997). (1998 - Current Contents). ISSN

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2. [1.1] Pestov, AV (Pestov, A. V.); Petrova, YS (Petrova, Yu S.); Bukharova, AV (Bukharova, A. V.); Neudachina, LK (Neudachina, L. K.); Koryakova, OV (Koryakova, O. V.); Matochkina, EG (Matochkina, E. G.); Kodess, MI (Kodess, M. I.); Yatluk, YG (Yatluk, Yu G.), In: RUSSIAN JOURNAL OF APPLIED CHEMISTRY Volume: 86 Issue: 2 Pages: 269-272, WOS

ADC05 EBRINGEROVÁ, Anna - NOVOTNA, Z. - KAČURÁKOVÁ, Marta - MACHOVÁ, Eva. Chemical modification of beechwood xylan with p-carboxybenzyl bromide. In Journal of Applied Polymer Science, 1996, vol. 62, p. 1043. (0.896 - IF1995). (1996 - Current Contents). ISSN 0021-8995.

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ADC06 Kardošová, Alžbeta - ROSIK, J. - KUBALA, J. Enzyme preparations from Aspergillus flavus for structural studies of the peach gum polysaccharide. In Folia microbiologica : international journal for general environmental and applied microbiology, and immunology. - Prague : Institute of Microbiology, Academy of Sciences of the Czech Republic, 1979, vol. 23, p. 97. ISSN 0015-5632.

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ADC07 KOSIKOVA, Božena - DEMIANOVA, V. - KAČURÁKOVÁ, Marta. Sulfur-free lignins as composites of polypropylene films. In Journal of Applied Polymer Science, 1993, vol. 47, no. 6, p. 1065-1073. ISSN 0021-8995.

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