Chemický ústav
Slovenskej akadémie vied

SPRÁVA O ČINNOSTI
ZA ROK 2015

Bratislava
január 2016

Obsah osnovy Správy o činnosti organizácie SAV za rok 2015

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV
Riaditeľ: Ing. Miroslav Kooš, DrSc.
Zástupca riaditeľa: RNDr. Ján Gajdoš, PhD.
Vedecký tajomník: RNDr. Desana Lišková, PhD.
Predseda vedeckej rady: Ing. Ján Tkáč, DrSc.
Člen snemu SAV: Ing. Miroslav Kooš, DrSc.
Adresa: Dúbravská cesta 9, 845 38 Bratislava

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Tel.: 02/ 59410201, 02/ 54772080
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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	147	57	90	12	24	132	119,78	70,71
Vedeckí pracovníci	78	35	43	4	19	64	59,07	55,94
Odborní pracovníci VŠ	26	10	16	6	4	26	20,45	14,77
Odborní pracovníci ÚS	33	6	27	2	1	32	30,78	0
Ostatní pracovníci	10	6	4	0	0	10	9,48	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (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 31.12.2015 (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 31.12.2015)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	10	25	1	2	10	21	4
Ženy	2	41	0	0	3	19	21

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	50,7	52,3	50,1
Ženy	47,4	44,8	47,1
Spolu	48,6	48,2	48,5

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

V roku 2015 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 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2015 financované VEGA	15	3	150447	150447	28529
2. Projekty, ktoré boli r. 2015 financované APVV	5	7	226054	148460	36752
3. Projekty OP ŠF	3	0	17684020	17684020	-
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 2015

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2015	-	9	8
2. Projekty výziev OP ŠF podané r. 2015	Bratislava	1	0
	Regióny	1	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2015

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Projekty 7. Rámcového programu EÚ	2	3	244622	244622	132620
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	7	-	-	-
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	1	0	2101	2101	-
4. Bilaterálne projekty	1	0	22000	22000	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	1	10	21915	21915	45118
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	1	-	-	77058

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

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2015

Výzva: H2020-FETOPEN-2014-2015-RIA
Názov: Sensing of biological macromolecules with functionalized boron doped diamond microelectrodes
Acronym: Difuel
Koordinátor: Laboratoire d'Analyse et d'Architecutre des Systemes, France
Zodp. zahr. riešiteľ: Dr. Pierre Temple
Zodp. riešiteľ z CHÚ: Ing. Vladimír Pätoprstý, PhD.
Počet rieš. inštitúcií: 8 (Francúzko: 1, Česká republika: 5, Taliansko: 1, Slovensko: 1)

Výzva: H2020-MSCA-ITN-2015
Názov: Novel biosensing technologies for the validation of prognostic and predictive prostate cancer biomarkers
Koordinátor: University of Bath, Bath, UK
Zodp. zahr. riešiteľ: Dr. Pedro Estrela
Zodp. riešiteľ z CHÚ: Ing. Ján Tkáč, DrSc.
Počet rieš. inštitúcií: 10 (Nemecko: 1, Veľká Británia: 4, Holandsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Portugalsko: 1, Slovensko: 1)

Tabuľka 2d Počet projektov Horizont 2020 v roku 2015

	A	**B**
Počet podaných projektov v 7. RP EÚ	0	0
Počet podaných projektov Horizont 2020	0	2

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

V nadväznosti na úspešnú výzvu OPVaV 2015/3.1/01-SORO a OPVaV 2015/1.1/01-SORO v oblastiach špecializácie RIS3 SK (ústav získal 2 projekty v celkovej sume ca 19 mil. €; financie boli použité na nákup prístrojovej infraštruktúry), CHÚ SAV sa zúčastní ďalších výziev v druhej etape pre financovanie výskumných aktivít podľa prílohy v úspešných projektoch (financovanie nákupu spotrebného materiálu, energií a ľudských zdrojov).

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Ab initio modelovanie anomérneho a *exo*-anomérneho efeku v 2-metoxytetrahydropyráne a 2-metoxytiáne korigované na vnútromolekulový BSSE (Sládek, Tvaroška)

Práca je jedinečná v dvoch aspektoch. Po prvýkrát sa kvantifikoval efekt vnútromolekulovej superpozičnej chyby na výpočet anomerického a exo-anomerického efektu a zistilo sa, že nakoľko táto chyba predstavuje rádovo 10 % celkovej hodnoty anomerického efektu, je potrebné (odporučené) zohľadňovať ju pri referenčných výpočtoch napr. pri parametrizovaní force field koeficientov. Druhým prínosom je interpretácia vzniku exo-anomerického efektu na základe dekompozície vnútromolekulových interakcií medzi molekulovými fragmentami na ab initio úrovni. Na tento účel sa po prvýkrát použila metóda LMOEDA (Localized Molecular Orbital Energy Decomposition Analysis) na MP2 úrovni. Projekty APVV 0484-12, VEGA 02/0064/15 a VEGA 01/0770/13 (**Chemický ústav SAV**).

SLÁDEK, Vladimír - HOLKA, Filip - TVAROŠKA, Igor. *Ab initio* modelling of the anomeric and *exo* anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane corrected for intramolecular BSSE. In *Physical Chemistry Chemical Physics*, 2015, vol. 17, p. 18501-18513. (4.493 - IF2014). (2015 - Current Contents). ISSN 1463-9076. (ADCA).

2.3.2. Aplikačný typ

Biotechnologická produkcia prírodnej arómy kyseliny fenyloctovej a jej monitorovanie (Bertóková, Bučko, Gemeiner, Katrlík, Krajčovič, Schenkmayerová, Šefčovičová, Tkáč, Vikartovská)

Vyvinutý bol mikrobiálny ampérometrický biosenzor testovaný na monitorovanie koncentrácie 2-

fenyletanolu (2-PE) pre biotechnologickú produkciu prírodnej arómy kyseliny 2-fenyloctovej. Biosenzor bol skonštruovaný pomocou baktérií *Gluconobacter oxydans* imobilizovaných v membráne z polyelektrolytového komplexu (PEC) alginátu sodného, sulfátu celulózy a poly(metylén-ko-guanidínu) pripevnenej na miniaturizovanú kyslíkovú Clarkovu elektródu. Biosenzor vykazoval vynikajúcu citlivosť a skladovaciu stabilitu. Enkapsulácia buniek umožnila výrazné zvýšenie operačnej stability. Biokatalytické vlastnosti imobilizovaných buniek boli v spolupráci s priemyselným výrobcom aróm (Axxence Slovakia s.r.o.) testované v prebublávanom kolónovom reaktore. Pozorovaná bola vysoká viabilita buniek (90 %) meraná pred aj po opakovaných cykloch v prebublávanom reaktore. Významnou inováciou bolo využitie environmentálnej skenovacej elektrónovej mikroskopie na vyšetrenie morfológie imobilizátov v spolupráci s AV ČR v Brne. Projekty VEGA 1/0229/12, APVV-0302-10 a ŠF ITMS 26240220079 **(Chemický ústav SAV).**

SCHENKMAYEROVÁ, Andrea - BERTÓKOVÁ, Anikó - ŠEFČOVIČOVÁ, Jana - ŠTEFUCA, Vladimír - BUČKO, Marek - VIKARTOVSKÁ, Alica - GEMEINER, Peter - TKÁČ, Ján - KATRLÍK, Jaroslav. Whole-cell *Gluconobacter oxydans* biosensor for 2-phenylethanol biooxidation monitoring. In *Analytica Chimica Acta*, 2015, vol. 854, p. 140-144. (4.513 - IF2014). (2015 - Current Contents). ISSN 0003-2670. (ADCA)

BERTÓKOVÁ, Anikó - VIKARTOVSKÁ, Alica - BUČKO, Marek - GEMEINER, Peter - TKÁČ, Ján - CHORVÁT, Dušan - ŠTEFUCA, Vladimír - NEDĚLA, Vilém. Biooxidation of 2-phenylethanol to phenylacetic acid by whole-cell *Gluconobacter oxydans* biocatalyst immobilized in polyelectrolyte complex capsules. In *Biocatalysis and Biotransformation*, 2015, vol. 33, p. 111-120. (0.691 - IF2014). (2015 - WOS Core Collection, Scopus). ISSN 1024-2422. (ADMA)

NEDĚLA, Vilém - BUČKO, Marek - TIHLAŘÍKOVÁ, Eva - KRAJČOVIČ, Tomáš - GEMEINER, Peter. The size and morphological study of spherical polyelectrolyte complex beads using environmental scanning electron microscopy. In *Proceedings of Microscopy and Microanalysis 2015: A16 Advances in Electron and Ion Scanning Microscopies, August 2-6, Portland, OR, USA*. In *Microscopy and Microanalysis*, 2015, vol. 21, suppl. 3, Paper No. 0847, p. 1697-1798. (1.877 - IF2014). (2015 - Current Contents). ISSN 1431-9276. (AFC)

2.3.3. Medzinárodné vedecké projekty

Využitie rozličných bioanalytických prístupov v oblasti glykomiky (Bertók, Filip, Holazová rod. Šedivá, Kluková, Hushegyi, Pihíková, Belický, Damborský, Katrlík, Tkáč)
Výskum bol zameraný na využitie elektrochemických metód, najmä elektrochemickej impedančnej spektrometrie pri konštrukcii viacerých typov biosenzorov s možnosťou ich využitia v analýze reálnych vzoriek (séra pacientov s reumatoidnou artritídou) alebo v analýze biomarkera rakoviny prostaty – PSA (prostate specific antigen) pre rýchlu diagnostiku týchto ochorení. Okrem toho boli pripravené biosenzory s vysokou selektivitou stanovenia s využitím zwiteriónov na báze betaínov na povrchovú modifikáciu týchto zariadení, s vysokou účinnosťou potlačenia nešpecifických interakcií. Elektrochemická detekčná metóda bola použitá aj pri príprave lektínových a glykánových biosenzorov s využitím v oblasti glykomiky. Elektródy modifikované nanomateriálmi boli taktiež využité na konštrukciu biopalivových článkov. Na glykoprofiláciu viacerých proteínov boli využité aj techniky lektínovej microarray a techniky SPR. Projekty FP7-311532, FP7-317420 a NPRP 6-381-1-078 **(Chemický ústav SAV).**

PALEČEK, Emil - TKÁČ, Ján - BARTOŠÍK, Martin - BERTÓK, Tomáš - OSTATNÁ, Veronika - PALEČEK, Jan. Electrochemistry of non-conjugated proteins and glycoproteins. Towards sensors for biomedicine and glycomics. *Chemical Reviews*, 2015, vol. 115, p. 2045-2108. (46.568 - IF2014). (2015 - Current Contents). ISSN 0009-2665. (ADCA)

HUSHEGYI, András - BERTÓK, Tomáš - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - TKÁČ, Ján. Ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. In *Chemical Communications*, 2015, vol. 51, p. 7474-7477. (6.834 - IF2014). (2015 - Current Contents). ISSN 1359-7345. (ADCA)

KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - PETRÍKOVÁ, Miroslava - ŠEDIVÁ, Alena - MISLOVIČOVÁ, Danica - KATRLÍK , Jaroslav - VIKARTOVSKÁ, Alica - KASÁK, Peter - ANDICSOVÁ-ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - LUKÁČ, Jozef - ROVENSKÝ, Jozef - IMRICH, Richard - TKÁČ, Ján. Glycoprofiling as a novel tool in serological assays of systemic sclerosis: A comparative study with three bioanalytical methods. In *Analytica Chimica Acta*, 2015, vol. 853, p. 555-562. (4.513 - IF2014). (2015 - Current Contents). ISSN 0003-2670. (ADCA)

BERTÓK, Tomáš - ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNÉ, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum. In *Langmuir*, 2015, vol. 31, p. 7148-7157. (4.457 - IF2014). (2015 - Current Contents). ISSN 0743-7463. (ADCA)

JOLLY, Pawan - FORMISANO, Nello - TKÁČ, Ján - KASÁK, Peter - FROST, Christopher G. - ESTRELA, Pedro. Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. In *Sensors and Actuators B: Chemical*, 2015, vol. 209, p. 306-312. (4.097 - IF2014). (2015 - Current Contents). ISSN 0925-4005. (ADCA)

ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. Switchable materials containing polyzwitterion moieties. In *Polymers*, 2015, vol. 7, p. 2344-2370. (3.681 - IF2014). (2015 - Current Contents). ISSN 2073-4360. (ADCA)

ILČÍKOVÁ, Markéta - FILIP, Jaroslav - MRLÍK, Miroslav - PLACHÝ, Tomáš - TKÁČ, Ján - KASÁK, Peter. Polypyrrole nanotubes decorated with gold particles applied for construction of enzymatic bioanodes and biocathodes. In *International Journal of Electrochemical Science*, 2015, vol. 10, p. 6558-6571. (1.500 - IF2014). (2015 - Current Contents). ISSN 1452-3981. (ADCA)

BELICKÝ, Štefan - TKÁČ, Ján. Can glycoprofiling be helpful in detecting prostate cancer? In *Chemical Papers*, 2015, vol. 69, p. 90-111. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - CHU, Virginia - CONDE, João P. - KATRLÍK, Jaroslav. Surface plasmon resonance application in prostate cancer biomarker research. In *Chemical Papers*, 2015, vol. 69, p. 143-149. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

FILIP, Jaroslav - KASÁK, Peter - TKAC, Jan. Graphene as a signal amplifier for preparation of ultrasensitive electrochemical biosensors. In *Chemical Papers*, 2015, vol. 69, p. 112-133. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

PIHÍKOVÁ, Dominika - KASÁK, Peter - TKÁČ, Ján. Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. In *Open Chemistry*, 2015, vol. 13, p. 636-655. (IF2014 - nemá). (2015 - Current Contents). ISSN 2391-5420. (ADCB).

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. 2015/ doplnky z r. 2014	B Počet v r. 2015/ doplnky z r. 2014	C Počet v r. 2015/ doplnky z r. 2014
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB)	**1 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**2 / 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 evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, CDDB, BDCA, BDCB, BDDA, BDDB)	**73 / 1**	**0 / 0**	**1 / 0**
10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**2 / 0**	**0 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch			
a/ recenzované práce a publikované pozvané príspevky (AECA, AECB, AEDA, AEDB, AFA, AFB, BEC, BED)	**1 / 0**	**0 / 0**	**0 / 0**

b/ nerecenzované práce (BEE, BEF, CEC, CED)	**3 / 0**	**0 / 0**	**0 / 0**
12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**	**0**	**0**
13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**2 / 0**	**0 / 0**	**1 / 0**
15. Práce uverejnené na internete (GHG)	**0 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**
17. Heslá v *Encyklopédii Beliana* 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. 2014/ doplnky z r. 2013**	**B** **Počet v r. 2014/ doplnky z r. 2013**
Citácie vo WoS Core Collection (1.1, 2.1)	2168 / 19	0 / 0
Citácie v SCOPUS (1.2, 2.2)	393 / 51	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	8 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	51 / 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	111
Prednášky a vývesky na domácich vedeckých podujatiach	18

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BIELY, Peter. Focus on carbohydrates: Glycobiology and biotechnology. In *28th Annual Symposium of SASM-KZN Branch, October 22, 2015, Westville Campus, UKZN, Durban, South Africa*. (vyžiadaná prednáška - Dr. Biely)
In Programme and Proceedings of the 28th Annual Symposium of SASM-KZN Branch, October 22, 2015, Durban, South Africa. Durban: University of KwaZulu-Natal, 2015.

ŠEDIVÁ, Alena - DAMBORSKÝ, Pavel - ZÁMOROVÁ, Martina - GEMEINER, Peter - NEDIČ, Olgica - KATRLÍK, Jaroslav. Lectin-based techniques for analysis of glycosylation changes using microarray and surface plasmon resonance platforms. In *GLYCO 23 - XXIII International Symposium on Glycoconjugates, September 15-20, 2015, Split, Croatia*. (vyžiadaná prednáška - Dr. Katrlík)
Abstract published: In *Programme Book: GLYCO 23 - XXIII International Symposium on Glycoconjugates, September 15-20, 2015, Split, Croatia*. Zagreb: Spektar putovanja d.o.o., 2015, p. 35. In *Glycoconjugate Journal*, vol. 32, p. 282-283. ISSN 0282-0080. (AFE)

TKÁČ, Ján - BERTÓK, Tomáš - FILIP, Jaroslav - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Nanoscale-controlled interfaces for construction of ultrasensitive lectin biosensors and effective biofuel cells. In *5th Regional Symposium on Electrochemistry South-East Europe, June 7-11, 2015, Pravets, Bulgaria*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In VLADIKOVA, Daria - RAIKOVA, Gergana (eds.). *Program & Book of Abstracts: 5th Regional Symposium on Electrochemistry South-East Europe, June 7-11, 2015, Pravets, Bulgaria*. Sofia: Academician Evgeni Budevski Institute of Electrochemistry and Energy Systems, Bulgarian Academy of Sciences, 2015, KN-06, p. 16. ISBN 978-954-92483-4-0. (AFE)

TKÁČ, Ján - BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Biosensors for ultrasensitive analysis in glycomics and diagnostics. In *European Biotechnology Congress 2015, Bucharest, Romania, May 7-9, 2015*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *Journal of Biotechnology*, 2015, vol. 208S, p. S7. ISSN 0168-1656. (AFE)

TKÁČ, Ján - BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Ultrasesitive impedimetric glycan and lectin biosensors as diagnostic tools. In *GLYCO 23 - XXIII International Symposium on Glycoconjugates, September 15-20, 2015, Split, Croatia*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *Programme Book: GLYCO 23 - XXIII International Symposium on Glycoconjugates, September 15-20, 2015, Split, Croatia*. Zagreb: Spektar putovanja d.o.o., 2015, p. 42-32. In *Glycoconjugate Journal*, vol. 32, p. 255. ISSN 0282-0080. (AFE)

TKÁČ, Ján - FILIP, Jaroslav. Electrochemistry of bilirubin oxidase on various interfaces and its integration into a biofuel cell construction. In *XXIII International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society, 14-18 June, 2015, Malmö, Sweden*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *Program & Book of Abstracts: XXIII International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society, 14-18 June, 2015, Malmö, Sweden*. Lausanne: The Bioelectrochemical Society, 2015, p. 165. (AFE)

TVAROŠKA, Igor. Sweets/bitter secrets of glycosyltransferases. In *Debrecen Colloquium on Carbohydrates 2015: András Lipták Memorial Conference, 6-8 November, 2015, Debrecen, Hungary*. (vyžiadaná prednáška - Dr. Tvaroška)
Abstract published: In CSÁVÁS, Magdolna (ed.). *Program and Abstracts: Debrecen Colloquium on Carbohydrates 2015 - Debcarb 2015, November 6-8, 2015, Debrecen, Hungary*. Debrecen: University of Debrecen, 2015. p. 26. PL-5. ISBN 978-963-473-884-8. (AFE)

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

TKÁČ, Ján - BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Diagnostic potential of glycan analysis. In *42nd International Conference of Slovak Society of Chemical Engineering, May 25-29, 2015, Tatranské Matliare, Slovakia*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In MARKOŠ, Jozef (ed.). *Proceedings of the 42nd International Conference of Slovak Society of Chemical Engineering, May 25-29, 2015, Tatranské Matliare, Slovakia*. Bratislava: Slovak Society of Chemical Engineering, 2015. p. 4. ISBN 978-80-89475-14-8. (AFF)

TKÁČ, Ján - BERTÓK, Tomáš - FILIP, Jaroslav - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Application of nanomaterials and nanoscale-controlled immobilization for preparation of ultrasensitive biosensors and biofuel cells. In *67. Zjazd chemikov, 7. – 11. september 2015, Vysoké Tatry, Horný Smokovec, Slovensko*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *ChemZi*, 2015, roč. 11, č. 1, PP1, s. 59-60. ISSN 1336-7242. (AFF)

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

FARKAŠ, Vladimír. Fungal transglycosylases. *Seminar at the University of Edinburgh, Institute of Molecular Plant Sciences, Edinburgh, United Kingdom, October 2, 2015*.

LUX, Alexander. Cadmium translocation by contractile roots differs from that in regular, non-contractile roots. In *Seminar at the University of Agriculture, Kanagawa, Tokyo, Japan, September 28, 2015*.

TVAROŠKA, Igor. Sweets secrets of sugars. In *Slávnostné spustenie superpočítača Salomon, Vysoké učení báňské, 15. 9. 2015, Ostrava, Česká republika*.

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 2015

2.7.1. Vynálezy, na ktoré bol udelený patent

– – –

2.7.2. Prihlásené vynálezy

– – –

2.7.3. Predané licencie

– – –

2.7.4. Realizované patenty

– – –

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
Gemeiner Peter	APVV/VV 2015	2
Katrlík Jaroslav	APVV/VV 2015	2
	VEGA	2
Mastihuba Vladimír	APVV/Bilaterálne výzvy	2
	VEGA	2
Mastihubová Mária	APVV/VV 2015	1
	VEGA	2
Petruš Ladislav	APVV/VV 2015	2
Šimkovic Ivan	APVV/VV 2015	1
Tkáč Ján	APVV/VV 2015	3

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Iné informácie k vedeckej činnosti.

Z celkového počtu 77 vedeckých prác v časopisoch je 68 publikovaných v periodikách evidovaných v Current Contents Connect, 7 prác je v časopisoch evidovaných vo WOS a Scopus a 2 práce v časopisoch neevidovaných v CCC, WOS a Scopus, pričom na 29 % z týchto prác sú autormi len pracovníci ústavu, 22 % prác je publikovaných v spolupráci s domácimi a 49 % so zahraničnými spoluautormi.

Celkový počet publikácií (karentované a nekarentované) vzrástol v porovnaní s minulým rokom o 12 (77 versus 65), z toho počet karentovaných prác vzrástol o 6 (68 versus 62) a zvyšných 7 prác je evidovaných v databázach WOS a Scopus a sú impaktované. Tento nárast je síce sľubný avšak stále ho považujeme za nedostatočný. Na druhej strane ale treba poznamenať, že nadmerná administratívna záťaž mnohých vedeckých pracovníkov v súvislosti s implementáciou viacerých projektov OP ŠF a prípravou ďalších, znižuje ich kapacitu na vedeckú prácu a publikačnú aktivitu.

Impakt faktor periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.272 do 46.568 (v 20 prípadoch IF presahuje hodnotu 4.000 a v 32 prípadoch hodnotu 3.000), pričom jeho priemerná hodnota 3.405 (oproti vľaňajšej hodnote 2.404 vzrástol o 1.001) vo všetkých prípadoch výrazne presahuje hodnoty medián impakt faktora pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.109 pre Chemistry Organic, 2.672 pre Biochemistry & Molecular Biology, 1.651 pre Polymer Science, 2.511 pre Microbiology, 2.125 pre Biotechnology & Applied Microbiology a 2.167 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác.

Celkový počet citácií 2690 (z toho 2631 sú citácie vo WOS a Scopus) predstavuje oproti minulému roku nárast o vyše 700, čo možno tiež považovať za cenný kvalitatívny ukazovateľ.

Na tomto mieste treba vysloviť uznanie Predsedníctvu SAV a pracovníčkam Ústrednej knižnice SAV, že sa aj v roku 2015 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 reputácií 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. Úhrnne sa riešilo 48 projektov - z toho 33 domácich (VEGA - 18, APVV - 12, OP ŠF - 3) a 15 zahraničných (5 projektov 7. RP EÚ, 7 projektov COST, 1 projekt v rámci medzivládnych dohôd o VTS, 1 bilaterálny projekt nadväzujúci na MAD a 1 iný projekt, pričom čerpané finančné prostriedky predstavujú sumu cca 18593.6 tisíc €, z čoho je cca 478.4 tisíc € zo zahraničných projektov, 18048.2 tisíc € z domácich projektov a 67.0 tisíc € je podpora medzinárodnej spolupráce z národných zdrojov (MVTS a APVV) na projekty 7. RP EÚ a COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos pomáhajúci zabezbečiť prevádzku pracoviska.

V roku 2015 sa čerpali finančné prostriedky z dvoch projektov OP ŠF (cca 17.68 mil. €) a to na nákup prístrojov a príslušenstva. Dobudovaním technickej infraštruktúry pre biomedicínsky výskum sa CHÚ SAV zaradil medzi najmodernejšie vybavené pracoviská v tejto oblasti.

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 2015

Forma	Počet k 31.12.2015				Počet ukončených doktorantúr v r. 2015					
	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	13	1	5	1	5	0	0	0	0
Interná z iných zdrojov	3	1	0	0	0	0	0	0	0	0
Externá	0	1	0	1	0	0	0	0	0	0
Spolu	10	15	1	6	1	5	0	0	0	0
Súhrn	25		7		6		0		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	**Interná z prostriedkov SAV**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**	**Interná z iných zdrojov**	**Externá**	**Externá**
Do formy	**Interná z iných zdrojov**	**Externá**	**Interná z prostriedkov SAV**	**Externá**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**
Počet	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2015 úspešnou obhajobou

Meno doktoranda	**Forma DŠ**	**Mesiac, rok nástupu na DŠ**	**Mesiac, rok obhajoby**	**Číslo a názov študijného odboru**	**Meno a organizácia školiteľa**	**Fakulta udeľujúca vedeckú hodnosť**
RNDr. Anikó Bertóková	interné štúdium hradené z prostriedkov SAV	9 / 2011	8 / 2015	5.2.25 biotechnológie	Ing. Marek Bučko PhD., Chemický ústav SAV	Prírodovedecká fakulta UK

RNDr. Alena Holazová	interné štúdium hradené z prostriedkov SAV	9 / 2011	8 / 2015	5.2.25 biotechnológie	Ing. Jaroslav Katrlík PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
RNDr. Zuzana Neščáková	interné štúdium hradené z prostriedkov SAV	9 / 2008	8 / 2015	4.2.7 mikrobiológia	Ing. Slavomír Bystrický DrSc., Chemický ústav SAV	Prírodovedecká fakulta UK
RNDr. Klaudia Palenčárová	interné štúdium hradené z prostriedkov SAV	9 / 2011	12 / 2015	4.1.22 biochémia	Ing. Jozef Nahálka PhD., Chemický ústav SAV	Prírodovedecká fakulta UK
Ing. Peter Seč	interné štúdium hradené z prostriedkov SAV	9 / 2011	8 / 2015	4.1.22 biochémia	Mgr. Roman Holič PhD., Ústav biochémie a genetiky živočíchov SAV	Fakulta chemickej a potravinárskej technológie STU
Mgr. Mária Šedivá	interné štúdium hradené z prostriedkov SAV	9 / 2010	4 / 2015	4.1.22 biochémia	RNDr. Jaroslav Klaudiny PhD., 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	4.1.18	
Makromolekulová chémia	makromolekulová chémia	4.1.19	Fakulta chemickej a potravinárskej technológie STU
Biochémia	biochémia	4.1.22	Fakulta chemickej a potravinárskej technológie STU
Biochémia	biochémia	4.1.22	Prírodovedecká fakulta UK
Mikrobiológia	mikrobiológia	4.2.7	Prírodovedecká fakulta UK
Biotechnológia	biotechnológie	5.2.25	Fakulta chemickej a potravinárskej technológie STU
Biotechnológia	biotechnológie	5.2.25	Prírodovedecká fakulta UK

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Peter Biely, DrSc. (biochémia)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Tomáš Bertók, PhD. (IIa)
doc. Ing. Vladimír Farkaš, DrSc. (mikrobiológia)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta UK)	RNDr. Anikó Bertóková, PhD. (IIb)
Ing. Peter Gemeiner, DrSc. (biotechnológie)	Ing. Ján Tkáč, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Peter Bystrický, PhD. (IIa)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Pavol Farkaš, PhD. (IIa)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		Ing. Jaroslav Filip, PhD. (IIa)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		RNDr. Alena Holazová, PhD. (IIb)
prof. RNDr. Alexander Lux, CSc. (odbor v zahraničí)		Ing. Eva Hrabárová, PhD. (IIa)
Ing. Vladimír Mastihuba, PhD. (chémia a technológia		RNDr. Zuzana Neščáková, PhD. (IIb)

poživatín)		
Ing. Ema Paulovičová, CSc. (mikrobiológia)		RNDr. Klaudia Palenčárová, PhD. (IIb)
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		Ing. Lucia Paulovičová, PhD. (IIa)
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		Mgr. Mária Šedivá, PhD. (IIb)
RNDr. Mária Vršanská, DrSc. (biochémia)		RNDr. Anikó Bertóková, PhD. (PhD., Prírodovedecká fakulta UK)
		RNDr. Zuzana Neščáková, PhD. (PhD., Prírodovedecká fakulta UK)
		Mgr. Mária Šedivá, PhD. (PhD., Prírodovedecká fakulta UK)

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

PEDAGOGICKÁ ČINNOSŤ	**Prednášky**		**Cvičenia a semináre**	
	doma	**v zahraničí**	**doma**	**v zahraničí**
Počet prednášateľov alebo vedúcich cvičení	6	0	6	0
Celkový počet hodín v r. 2015	77	0	374	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**	16
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	21
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	19
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	28
5.	**Počet oponovaných dizertačných a habilitačných prác**	8
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	5
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	4
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	7
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	1

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 2015 sa na CHÚ SAV školilo celkom 31 doktorandov (z toho 7 novoprijatých: 6 v dennej a 1 v externej forme štúdia), z ktorých 6 úspešne obhájilo doktorandskú dizertačnú prácu. 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 školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov a týchto si prioritne podržia na doktorandské štúdium jednotlivé fakulty.

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2015, sa dá predpokladať, že v roku 2016 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. Oceniť treba najmä ich aktivity počas Dňa otvorených dverí na ústave, ktorý sa pravidelne koná každý rok v novembri. Viacerí sa aktívne zapájajú aj do pedagogickej a popularizačnej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách a aktivity počas Dňa otvorených dverí v rámci Týždňa vedy a techniky na Slovensku. Za študijné a vedecké výsledky získali viacerí aj ocenenia (napr. na vedeckých konferenciách).

Iná pedagogická činnosť:

Ing. Vladimír Mastihuba, PhD. - vedenie odbornej praxe; úhrnne 120 h (LS 2014/2015)
(Bc. Vlasta Záhorcová - 1. roč. Ing. štúdia - Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie a potravinárstva, Oddelenie biochemickej technológie)

RNDr. Mária Petrušová, PhD. - vedenie odbornej praxe; úhrnne 60 h (LS 2014/2015)
(Bc. Lenka Gallová - 1. roč. Ing. štúdia - Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie)

Ing. Ema Paulovičová, PhD. - absolvovanie praktickej časti k záverečnej maturitnej skúške na tému "Vplyv polysacharidov sladkovodých rias na produkciu prozápalových a protizápalových cytokínov"; úhrnne 120 h (december 2014 a január 2015)
(Lenka Hrobárová - Gymnázium Pankúchova 6, Bratislava)

Ing. Eva Stratilová, PhD. - vedenie preddiplomovej praxe; úhrne 60 h (LS 2014/2015)
(Bc. Ivana Parenicová - Fakulta chemická, Vysoké učení technické v Brně, Brno, Česká republika).

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2015 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

42. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 63 účastníkov, 19.05.-22.05.2015
Vedecký program konfrencie bol rozdelený do štyroch sekcií: Medical Mycology, Ecology and Taxonomy of Yeasts, Yeast Biotechnology a Molecular and Cell Biology of the Yeasts. Na začiatku konfrencie odznela prednáška Dr. Vadkertiovej „Life with yeasts: Centennary of the birth of Dr. Anna Kocková-Kratochvílová" pri príležitosti nedožitých 100-tých narodenín Dr. Anny Kockovej-Kratochvílovej, DrSc., zakladateľky Komisie pre kvasinky. Prednáška Dr. J. P. Sampaia (Portugalsko) „Taxonomy and diversity: Saccharomyces in the XXI century“ bola tiež venovaná pamiatke Dr. A. Kockovej-Kratochvílovej. Celkovo odznelo 25 prednášok, z ktorých 8 bolo hradených Komisiou pre kvasinky. Prezentovaných bolo 33 plagátových vývesiek. V rámci sekcie „Poster highlights“ odznelo 8 krátkych prednášok prezentovaných mladými vedeckými pracovníkmi a doktorandmi.
Počet účastníkov: 63, z toho 35 zahraničných.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2016 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

43rd Annual Conference on Yeasts/43. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 70 účastníkov, 10.05.-13.05.2016, (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	6	3	0

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Peter Biely, DrSc.

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

Ing. Emília Breierová, PhD.

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

Ing. Peter Gemeiner, DrSc.

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

Ing. Ján Hirsch, DrSc.

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

Ing. Miloš Hricovíni, PhD.

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

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 Koóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

RNDr. Desana Lišková, PhD.

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

prof. RNDr. Alexander Lux, CSc.

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

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)

RNDr. Zuzana Neščáková, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

American Society for Mass Spectrometry (funkcia: člen)
Arbeitsgruppe für Molekül-Spektroskopie der Österreichischen Gesellschaft für Analytische Chemie (funkcia: člen)
International Society for Mass Spectrometry (funkcia: reprezentant Slovenska)

doc. Ing. Ladislav Petruš, DrSc.

Česká společnost chemická (funkcia: čestný člen)

Ing. Ján Tkáč, DrSc.

American Chemical Society (funkcia: 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)

Zbierka kultúr kvasiniek
- člen European Culture Collections´ Organization (ECCO)
- člen World Federation for Culture Collections (WFCC)

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-MSCA-IF-2015	18
Petruš Ladislav	Austrian Science Fund - FWF	1
Tkáč Ján	Czech Republic/USA Bilateral Cooperation Project	1

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

V rámci MVTS (COST CM1101) pokračovala spolupráca (J. Katrlík) s Dr. G. 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. S. Desantisom (Department of Emergency and Organ Transplantation, University of Bari Aldo Moro, Taliansko) v oblasti aplikácie lektínových microarray pre sledovania špecifickej expresie glykokonjugátov ako markerov funkčného stavu systému na celých živočíšnych bunkách (folikuly, vajíčka).

Pokračovala spolupráca (J. Katrlík) s Prof. O. 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 nástroja pre výskum, diagnostiku a terapiu kolorektálneho karcinómu.

V rámci projektu COST Action TD1203, zameranom na zhodnotenie potravinového odpadu, pokračovala spolupráca s Dr. M. Aguedom (University of Liege, Gembloux Agro-Bio Tech, Department of Industrial Biological Chemistry, Belgicko). Partnerská strana umožnila prístup k potrebnému extrakčnému zariadeniu. Študovali sa podmienky izolácie pektínu z tekvicovej biomasy s využitím mikrovlnného žiarenia a jeho vplyv na zloženie, molekulové vlastnosti a štruktúru izolovaného polysacharidu. V spolupráci so skupinou z Ege University, Engineering Faculty, Food Engineering Department v Tureckom Izmire sa študovalo zloženie jemných šupiek lieskových orechov a hľadali sa vhodné extrakčné postupy na izoláciu polysacharidov. Štruktura izolovaných polysacharidov sa analyzovala s využitím prístrojového vybavenia CHÚ SAV, nakoľko pracovisko v Izmire je vybavené najmä technologickou infraštruktúrou.

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). 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.

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 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. V roku 2015 získal CHÚ SAV nenávratný finančný príspevok na dva projekty: jeden v rámci výzvy OPVaV-2015/3.1/01-SORO pre Bratislavský samosprávny kraj (ca 8.32 mil. €) a jeden v rámci výzvy OPVaV-2015/1.1/03-SORO pre mimobratislavké kraje (ca 9.86 mil €).

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 sídliacimi v budove správcovanej Chemickým ústavom a tiež Kolektívna zmluva so Základnou organizáciou odborového zväzu. V súvislosti s viacerými zmenami v zákonoch NR SR, nariadeniach vlády SR, vyhláškach a pokynoch MZ SR týkajúcich sa ochrany zdravia pri práci s nebezpečnými faktormi boli v roku 2008, 2009 a 2014 novelizované relevantné predpisy pre práce s nebezpečnými chemickými faktormi, biologickým materiálom, GMO a pre zaobchádzanie so zdrojmi ionizujúceho žiarenia, aplikované na pracovné podmienky v CHÚ SAV a získali príslušné oprávnenia od kompetentných orgánov. V 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 vedeckí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v roku 2015 mal ústav 8 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 2015 nastúpil na ústav jeden postdoktorand, ktorý získal fellowship z programu SASPRO (First Call 2014) . 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: Farmaceutická fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného projektu - Katedra bunkovej a molekulárnej biológie liečiv
Začiatok spolupráce: 2012
Zameranie: Testovanie antimikrobiálnej aktivity a stanovenie inhibičných aktivít sacharidových derivátov.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie uverejnené a 1 pripravovaná.

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.

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: 2010
Zameranie: Biomedicínsky výskum v oblasti diagnostiky zriedkavých metabolických ochorení.
Zhodnotenie: Výsledkom spolupráce je 1 zborníková práca.

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 je 1 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 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Spoluúčasť na riešení projektov VEGA a APVV - Ústav patologickej anatómie
Začiatok spolupráce: 2010
Zameranie: Testovanie lektínov v analýze biomedicínskych vzoriek a tkanivových kultúr.
Zhodnotenie: Príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra biochémie
Začiatok spolupráce: 2006
Zameranie: Syntéza mykobakteriálnych transglykozylázových substrátov a inhibítorov.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra mikrobiológie a virológie
Začiatok spolupráce: 2007
Zameranie: Úloha CR3-RP v adherencii kvasinky Candida albicans a jeho imunologické vlastnosti.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia, ktorá bola publikovaná vo FEMS Yeast Research ako „Editor's choice“ a následne vybraná do virtuálneho špeciálneho vydania „Virtual Special Issue: Immunology and Microbes“ (http://femsjournals.com/content/virtual-special-issue-immunology-and-microbes)

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 glykozyltransferáz.
Zhodnotenie: Príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov - 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 galaktoglukomanánových oligosacharidov vo vývinových procesoch a ochrane rastlín.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie a 5 príspevkov na zahraničných konferenciách.

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: Viď 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: Viď informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR s FCHPT STU.

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: Viď 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; príprava spoločnej publikácie.

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 uverejnené 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 biochémie a mikrobiológie
Začiatok spolupráce: 2010
Zameranie: Imunobiologická aktivita látok pre biomedicínske aplikácie.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná 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 diplomovej práce, letná odborná prax 1 študentky, 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie
Začiatok spolupráce: 2011
Zameranie: Syntéza glykozylačných činidiel a ich využitie na glykozyláciu heterocyklov.
Zhodnotenie: Odborná prax 1 študentky a 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: 2010
Zameranie: a) Analýza nutraceutík a polysacharidových zložiek cereálii; b) Štúdium štruktúry a vlastností biologicky aktívnych sacharidov; c) Biosenzory pre stanovenie sacharidov.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

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. Neskôr bol doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť. V roku 2015 bolo pracovisko vybavené špičkovými prístrojmi: FT-IR Mikroskop Nicolet iN10 a FT-IR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FT-IR Raman z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008 (379 tis. €). Výstupy v roku 2015: 3 publikácie a 2 prednášky.

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: FCHPT, STU v Bratislave, FEI TU a UPJŠ v Košiciach, PriF UK, Chemický ústav SAV a Ústav merania SAV v Bratislave. NC NMR bolo vytvorené za účelom zabezpečovania potrieb NMR služieb v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami, zvyšovania vedomostného potenciálu v oblasti NMR. Sieť NC NMR tvoria Centrá NMR. Na CHÚ SAV je lokalizované Centrum pre štúdium dynamiky a interakcií biomolekúl, ktoré bolo v roku 2009 vybavené NMR prístrojmi Varian (600 MHz a 400 MHz). V roku 2015 bolo pracovisko vybavené (z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008) špičkovými NMR prístrojmi Bruker: NMR Spectrometer Avance III HD 600MHz (2.344 mil. €) a Avance III HD 400MHz (1.021 mil. €).

Názov univerzity/vysokej školy a fakulty: Fakulta 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: Viď informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR s FCHPT STU.

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 príprava a realizácia vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky a výchova odborných, vedeckých a pedagogických pracovníkov. V rokoch 2011 a 2013 pracovisko implementovalo projekty ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“ a "Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií“ (výzva OPVaV-2013/1.1/02-SORO, 2.88 mil. €), v rámci ktorých sa obstarala špičková prístrojová technika.

Názov univerzity/vysokej školy a fakulty: 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 potravinářské a biochemické technologie, Ústav chemie a technologie sacharidů
Začiatok spolupráce: 2011
Zameranie: Štruktúra a biologická aktivita polysacharidov z rias a vyšších rastlín.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia uverejnená a 1 odoslaná.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií
Začiatok spolupráce: 2010
Zameranie: a) Mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z potravinárskych výrob/metódy biotypizácie mikroorganizmov; b) Identifikácia kvasiniek molekulárno-biologickou metódou.
Zhodnotenie: Výsledkom spolupráce sú 2 obhájené Bc. práce, 1 diplomová práca a konzultácie PhD. a diplomových prác; 2 postre.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií

Začiatok spolupráce: 2006
Zameranie: Vplyv stresu na pigmentotvorné kvasinky
Zhodnotenie: U rôznych druhov kvasiniek sa analyzovali zmeny v produkcii karotenoidných pigmentov, ktoré boli vyvolané rôznymi stresovými faktormi.

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 cytotoxická aktivita sacharidových derivátov.
Zhodnotenie: Výsledkom spolupráce sú 2 pripravované publikácie.

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 2 publikácie, 1 prednáška a 2 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 pripravovaná 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: Štruktúra a biologická aktivita fenolických glykokonjugátov z liečivých rastlín.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie a 2 postre.

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 1 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, Institüt 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; štruktúra glykopeptidov; definícia glykoprofilu krvného séra v diagnostike.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie, 1 zborníková práca a 1 poster; krátkodobé študijné pobyty.

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 uhľovodíkov - význam pre fytoextrakciu v multikontaminovanom prostredí.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie odoslané do redakcie; dlhodobá zahraničná stáž postdoktoranda.

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 látok vo včelej larválnej kašičke s antipatogénnym účinkom voči niektorým larválnym patogénom.
Zhodnotenie: Pripravovaná 1 spoločná publikácia a získanie vzoriek materských kašičiek.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta, Veterinární a farmaceutická univerzita Brno, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav chemických léčiv
Začiatok spolupráce: 2013
Zameranie: a) Enzýmové delenie racemátov; b) Chromatografické metódy delenia chirálnych binaftylov a ich analógov.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná 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 kadmiom.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: University of Bari "Aldo Moro", Bari, Italy
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Emergency and Organ Transplantation
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): Bilaterálny projekt APVV-SK-SRB - Institute for Applied 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: Výsledkom je 1 akceptovaná publikácia, 2 prednášky a 1 poster.

Názov univerzity/vysokej školy a fakulty: Université Blaise Pascal, Aubiere, Francúzsko
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Institut de Chimie de Clermont-Ferrand (ICCF)
Začiatok spolupráce: 2013
Zameranie: NMR štúdium štruktúry biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody.
Zhodnotenie: Zistilo sa, že baktérie Pseudomonas 14b2 a Rhodococcus 30b2 produkujú glykolipidy. 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: Ultrazvuková extrakcia a identifikácia polysacharidov.
Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia. Spolupráca v rámci projektu COST.

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 akceptovaná publikácia.

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 1 publikácia a 1 poster.

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

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - UR454 Unité de Microbiologie
Začiatok spolupráce: 2013
Zameranie: Identifikácia štruktúr exopolymérnych látok produkovaných baktériou Staphylococcus xylosus.
Zhodnotenie: Analýzy potvrdili iba prítomnosť 1,3-polyglycerol fosfátu; 1 publikácia v štádiu prípravy.

Názov univerzity/vysokej školy a fakulty: University of Debrecen, Faculty of Science and Technology, Institute of Chemistry, Debrecen, Hungary
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Organic Chemistry
Začiatok spolupráce: 2012
Zameranie: Syntéza glykozylačných činidiel a ich využitie na glykozyláciu heterocyklov.
Zhodnotenie: Výsledkom spolupráce je 1 akceptovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Institute of Physiology and Fundamental Medicine, Siberian Branch of RAMS, Novosibirsk, Russia
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca
Začiatok spolupráce: 2010
Zameranie: Makrofágy ako ciele imunomodulačného účinku beta-glukánov pri tumoroch a zápale.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: The Catholic University of Korea, Bucheon, Republic of Korea
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Biotechnology
Začiatok spolupráce: 2013
Zameranie: Štruktúra a biologická aktivita polysacharidov z rôznych rastlinných materiálov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia uverejnená a 1 odoslaná.

Názov univerzity/vysokej školy a fakulty: Universita degli Studi di Milano, Milano, Italy
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Departimento di Bioscienze
Začiatok spolupráce: 2010
Zameranie: Štúdium katalytických vlastností Phr enzýmov kvasiniek Candida albicans.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Universidad Complutense de Madrid, Facultad de Farmacia, Madrid, Spain
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Departamento de Microbiología II
Začiatok spolupráce: 2008
Zameranie: Štruktúrna analýza Crh transglykozyláz.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

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

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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. Výsledky boli publikované: 1 publikácia, 1 prednáška, 1 poster.

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

7.1. Spoločné pracoviská s aplikačnou sférou

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

Názov pracoviska: Saneca-Infraštruktúra-HL
Partner(i): Saneca Phamaceuticals, a.s.
Zameranie: Aplikovaný výskum v oblasti biomedicíny
Rok založenia: 2015
Zhodnotenie: Dňa 17. augusta 2015 Chemický ústav SAV a súkromná spoločnosť Saneca Pharmaceuticals a.s., Hlohovec podpísali dokument „Zmluva o spolupráci“ vyplývajúci z realizácie projektu ŠF EÚ "Technická infraštruktúra výskumného pracoviska" s cieľom vytvorenia a vybavenia pracoviska lokalizovaného v priestoroch spoločnosti Saneca (Hlohovec), ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie, izolácie a finálnej purifikácie dôležitých prírodných látok resp. ich prekurzorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko vybavené prístrojovou technikou v hodnote 9.86 mil. €.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Pôsobenie rôznych typov endoxylanáz na natívne bunkové steny rastlín (Action of different types of endoxylanases on native plant cell walls)
Partner(i): Novozymes A/S, Bagsvaerd, Denmark
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2014
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2017
Objem získaných prostriedkov v bežnom roku (€): 1000
Stručný opis výstupu/výsledku: Študoval sa vplyv rôznych typov endo-β-1,4 xylanáz na bunkové

steny izolované z koreňov a klíčnych lístkov kukurice. Výsledky potvrdzujú, že xylanázy z rodiny GH30 sú vysoko špecifické na hydrolýzu glukurónoxylánov.
Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje. Výsledky sú predmetom dvoch publikácií. 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 softéru TreeRobot na získavanie HR hmotnostných spektier. Odberateľ: HighChem Ltd., Bratislava

LC-MS analýza vzoriek. Odberateľ: Saneca Pharmaceuticals a.s., Hlohovec; finančný prínos: 22710 €

LC-MS analýza vzoriek. Odberateľ: TAU-CHEM, s.r.o., Bratislava; finančný prínos: 15000 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 210 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: BTG Holding, s.r.o, Bratislava; finančný prínos: 294 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: Welldrilling, s.r.o., Bratislava; finančný prínos: 356 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: XIMEA s.r.o., Marianka; finančný prínos: 271 €

LC-MS analýza vzoriek. Odberateľ: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Bratislava; finančný prínos: 2055 €

LC-MS analýza vzoriek. Odberateľ: Prírodovedecká fakulta Univerzity Komenského, Bratislava; finančný prínos: 1190 €

NMR analýza vzoriek. Odberateľ: Ústav polymérov SAV, Bratislava; finančný prínos: 5631 €

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
	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 národnom programe	člen
	Sektorová rada pre chémiu a farmáciu v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
	Porota v projekte "Veda má budúcnosť" pod záštitou MH SR	člen
doc. Ing. Ladislav Petruš, DrSc.	Porota pre udeľovanie Cien Literárneho fondu za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	člen
	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 samosprávy

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

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

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

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

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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.		PB	Genetika v koncoch: Nová éra glykobiológie	Projekt "Veda má budúcnosť" - exkurzia študentov dvoch bratislavských stredných škôl v CHÚ SAV, Bratislava	30.4.2015
Ing. Tomáš Bertók, PhD.	Pavol Kirinovič, Dominika Pihíková, Štefan Damborský	TV	Výskum biomarkerov pre diagnostiku niektorých ochorení	Televízia TA3, Relácia Veda na dosah, 2. 7. 2015. http://www.ta3.com/clanok/1064973/veda-na-dosah-z-2-jula.html	2.7.2015
Ing. Tomáš Bertók, PhD.	Filip Krpelan	TL	Moderný vedec musí byť trochu polyhistor	Správy SAV, 2015, roč. 51, č. 1, s. 11. ISSN 0139-6307	2015
RNDr. Peter Biely, DrSc.		TL	Bunkové steny rozhodujú	Vôňa vedy. Martin: Vydavateľstvo Matice slovenskej, 2015. s. 45-47. ISBN 978-80-8115-206-1	2015
RNDr. Peter Biely, DrSc.		TL	Pohonné látky z celulózy	Vôňa vedy. Martin: Vydavateľstvo Matice slovenskej, 2015. s. 80-83. ISBN 978-80-8115-206-1	2015
RNDr. Peter Biely, DrSc.		TL	Pred sto rokmi sa narodila Dr. Anna Kocková-Kratochvílová	Správy SAV, 2015, roč. 51, č. 1, s. 26. ISSN 0139-6307	2015
RNDr. Peter Biely, DrSc.		TL	Zaujímajte sa o prebiotiká	Vôňa vedy. Martin: Vydavateľstvo Matice slovenskej, 2015. s. 103-107. ISBN 978-80-8115-206-1	2015
RNDr. Peter Biely, DrSc.	Martin Podstupka	TL	Prestížna cena slovenskému biochemikovi	Správy SAV, 2015, roč. 51, č. 3, s. 19. ISSN 0139-6307	2015
Ing. Hana Dudášová, PhD.		PB	Zaujímavý svet kvasiniek	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	TL	VII. ročník Interaktívnej konferencie mladých vedcov pokračuje v znamení noviniek	ChemZi, 2014, roč. 10, č. 2, s. 62-63. ISSN 1336-7242	2015
Ing. Jaroslav Filip, PhD.	Ľudmila Kluková, Ján Tkáč	TL	Krásny nový bioelektronanosvet	Quark. Roč. XXI, č. 2, (2015), s. 28-29. ISSN 1335-4000	2015
Mgr. Lucia Fraňová		PB	Rastlinné polysacharidy, tak ako ich nepoznáte	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015

Ing. András Hushegyi		PB	Sladké tajomstvo života	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015
Ing. Andrej Chyba	Marta Balaščáková, András Hushegyi, Zuzana Vatehová	EX	Chémia vlastnými rukami (chemické experimenty)	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015
Ing. Peter Kis		PB	Štipľavá chémia	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015
RNDr. Jaroslav Klaudiny, PhD.		PB	Včela medonosná a jej význam pre život na zemi	Projekt Superškola (organizátori: CVTI, SAV, MŠVVŠ SR, MČ Petržalka), ZŠ Pankúchova, Bratislava	26.5.2015
RNDr. Jaroslav Klaudiny, PhD.		PB	Včela medonosná a jej význam pre život na zemi	Projekt Superškola (organizátori: CVTI, SAV, MŠVVŠ SR, MÚ Malacky), ZŠ Dr. Jozefa Dérera, Malacky	10.9.2015
Ing. Ľudmila Kluková	Štefan Belický	EX	Sladké tajomstvo vzniku chorôb	TVT 2015 - Veda netradične, Centrum vedy CVTI SR, Bratislava	9.11.2015
Ing. Miroslav Kóš, DrSc.	Martin Podstupka	TL	Hranica nie je ostrá	Správy SAV, 2015, roč. 51, č. 2, s. 8-10. ISSN 0139-6307	2015
Ing. Tomáš Krajčovič		PB	Neviditeľní chemici	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015
Ing. Vladimír Mastihuba, PhD.		TL	Chemické horizonty – jesenný cyklus 2014	ChemZi, 2014, roč. 10, č. 2, s. 64. ISSN 1336-7242	2015
Ing. Ema Paulovičová, CSc.	Lenka Hrobárová	PB	Vplyv polysacharidov sladkovodných rias na produkciu prozápalových a protizápalových cytokínov (seminárna práca)	Gymnázium, Pankúchova 6, Bratislava	9.3.2015
doc. Ing. Ladislav Petruš, DrSc.		PB	COST Experience, Lesson and Messages	COST Info Day, CVTI, Bratislava	20.3.2015
Ing. Ján Tkáč, DrSc.		PB	Prečo sú v diagnostike ochorení dôležité zložité cukry? Ako sa ľudský vírus líši od vtáčieho, ako môžu vírusy hacknúť obal našich buniek?	SAVinci: Vaša šálka vedomostí: SAVinci o význame chémie pre diagnostiku ochorení, Bratislava	11.5.2015
Ing. Ján Tkáč, DrSc.	Jaroslav Filip, Ján Petrovič	IN	Naši vedci odhalili svetu, ako použiť materiál budúcnosti. Elektrobaterka bude slzami napájať kameru v oku	Aktuality.sk, Správy, 10.08.2015, 06:00. http://www.aktuality.sk/clanok/301612/nasi-vedci-odhalili-svetu-ako-pouzit-material-buducnosti-elektrobaterka	10.8.2015
Ing. Ján Tkáč, DrSc.	Tomáš Bertók, Martin Podstupka	TL	Česko-slovenský článok v prestížnom časopise Chemical Reviews	Správy SAV, 2015, roč. 51, č. 2, s. 23. ISSN 0139-6307	2015

Ing. Ján Tkáč, DrSc.	Vladimír Jancura	TL	Najväčšie mozgy odišli, treba ich pritiahnuť späť	Príloha denníka Pravda-Víkend-Rozhovor, 17. január 2015, s. 20-22	17.1.2015
Ing. Renáta Vadkertiová, PhD.		PB	Využitie a úschova kvasiniek	Deň otvorených dverí CHÚ SAV, TVT 2015	12.11.2015
Ing. Renáta Vadkertiová, PhD.	Emília Breierová	TL	The 100th anniversary of the birth of Anna Kocková-Kratochvílová (1915-1992)	Yeast Newsletter. Vol. LXIV, No. II, (2015), p. 57-58. ISSN 0513-5222	2015
RNDr. Mária Vršanská, DrSc.		TL	Pocta pre slovenskú biochémiu	ChemZi, 2015, roč. 11, č. 1, s. 22. ISSN 1336-7242	2015
RNDr. Mária Vršanská, DrSc.		TL	Pocta pre slovenskú vedu	Bulletin Československej spoločnosti mikrobiologickej. Roč. LVI, č. 2 (2015), s. 85-86. ISSN 0009-0646	2015

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	12	tlač	15	TV	1
rozhlas	0	internet	1	exkurzie	2
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
42. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	19.05.-22.05.2015	63

9.3. Účasť na výstavách

Názov výstavy: 42. medzinárodná poľnohospodárska a potravinárska výstava AGROKOMPLEX 2015
Miesto konania: Agrokomplex, Nitra
Dátum: 20.9.2015
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 2015 - 3. ročník prezentácie výstupov vysokých škôl a univerzít technického zamerania
Miesto konania: Agrokomplex, Nitra
Dátum: 19.5.2015
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: Týždeň vedy a techniky na Slovensku: výstava Veda netradične - interaktívne vedecké prezentácie
Miesto konania: Bratislava - Centrum vedy CVTI SR
Dátum: 9.11.2015
Zhodnotenie účasti: Usporiadateľom podujatia bolo Ministerstva školstva, vedy, výskumu a športu SR a Národné centrum pre popularizáciu vedy a techniky v spoločnosti. V rámci expozície vo vedeckom stánku s názvom „Sladké tajomstvo vzniku chorôb“ prezentovali doktorandi Ing. Ľudmila Kluková a Ing. Štefan Belický výskumnú prácu Centra glykomiky na Chemickom ústave SAV. Návštevníci sa 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. Návštevníci mali tiež možnosť oboznámiť sa s mikroskopom, biobatériami, a pod. Pripravené boli aj popularizačné pokusy a ukážka ako funguje jednoduchý model biosenzora.

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)

Ing. Zdenka Hromádková, PhD.

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Koóš, DrSc.

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

prof. RNDr. Alexander Lux, CSc.

Plant Root (funkcia: Editor)

Ing. Vladimír Mastihuba, PhD.

ChemZi (funkcia: člen Redakčnej rady)

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.

Chemical Papers (funkcia: Associate Editor)
Open Chemistry (funkcia: 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)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Marek Baráth, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Biely, DrSc.

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

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 pri SAV (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)

Ing. Miroslav Koóš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Desana Lišková, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

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 pri SAV (funkcia: člen)

RNDr. Zuzana Neščáková, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Ema Paulovičová, CSc.

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

Ing. Lucia Paulovičová, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

doc. Ing. Ladislav Petruš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. 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 pri SAV (funkcia: člen)

Ing. Jozef Turjan

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Iveta Uhliariková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

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

V rámci Týždňa vedy a techniky na Slovensku 2015, Chemický ústav SAV usporiadal Deň otvorených dverí CHÚ SAV (12.11.2015), počas ktorého viacerí pracovníci formou prednášok popularizovali svoju vedecko-výskumnú činnosť. Návštevníci mali tiež možnosť prezrieť si vybrané laboratóriá ústavu, zhliadnuť počítačovú prezentáciu vedecko-výskumnej práce a najvýznamnejších výsledkov jednotlivých oddelení CHÚ SAV a vo viacerých laboratóriách boli pripravené aj špeciálne popularizačné chemické pokusy a ukážky. Tento rok sa dňa otvorených dverí zúčastnilo vyše 200 študentov, medzi nimi aj študenti Gymnázia na Mokrohájskej ulici v Bratislave a študenti QSI International School of Bratislava.

V rámci TVT sa ústav zúčastnil aj podujatia "Veda netradične", ktoré organizovalo Ministerstvo školstva, vedy, výskumu a športu SR a Národné centrum pre popularizáciu vedy a techniky v spoločnosti v dňoch 9.-10.11.2015 v priestoroch Centra vedy CVTI SR. V interaktívnom stánku „Sladké tajomstvo vzniku chorôb“ pracovníci Oddelenia glykobiotechnológie (Ing. Š. Belický a Ing. Ľ. Kluková) prezentovali skryté a pre mnohých neznáme fakty o vzniku a rozvoji mnohých ochorení.

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

V rámci projektu "Veda má budúcnosť", nad ktorým má záštitu Ministerstvo hospodárstva SR a Slovenská akadémia vied a partnermi sú spoločnosť Bayer a o.s. AISIS, navštívilo 30. apríla 2015 CHÚ SAV 60 študentov (tretí ročník) dvoch bratislavských stredných škôl (Stredná odborná škola chemická Vlčie hrdlo a Stredná zdravotnícka škola). Úvodnú prednášku pod názvom "Genetika v koncoch: Nová éra glykobiológie" prezentoval Ing. Tomáš Bertók, PhD., ktorý následne študentom priblížil históriu CHÚ SAV, jeho výsledky, priority výskumu a perspektívy. Venoval sa aj tomu, čím by práve toto vedecké pracovisko mohlo byť lákavé pre ich budúcu kariéru. Exkurzia pokračovala prehliadkou vybraných laboratórií ústavu, ktoré sa pýšia technickým vybavením na svetovej úrovni (viď článok: Stredoškoláci navštívili Chemický ústav SAV: http://www.sav.sk/index.php?lang=sk&charset=&doc=services-news&source_no=20&news_no=5861. Záverečná konferencia projektu sa konala 4. júna 2015. RNDr. M. Matulová, DrSc. bola členkou poroty za CHÚ SAV.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25482
z toho	knihy a zviazané periodiká	25482
	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		5
v tom	kúpou	5
	darom	0
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		5

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		14
z toho	odborná literatúra pre dospelých	5
	výpožičky periodík	9
	prezenčné výpožičky	9
MVS iným knižniciam		7
MVS z iných knižníc		1
MMVS iným knižniciam		0
MMVS z iných knižníc		6
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 €	2809

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

– – –

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 (predseda)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Koóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

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)

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 31.12.2015 spolu**	**v tom:**			
		zo ŠR od zriaďovateľ a	**z vlastných zdrojov**	**z iných zdrojov**	**z toho:**
					ŠF EÚ
Výdavky spolu	24200887	5837840	269893	18093154	17689805
Bežné výdavky	3187888	2518871	261577	407440	15263
v tom:					
mzdy (610)	1422636	1215792	42866	163978	2176
poistné a príspevok do poisťovní (620)	508944	416123	27607	65214	217
tovary a služby (630)	1040812	677927	184805	178080	12870
z toho: časopisy	48259	25120	23139	0	0
VEGA projekty	178976	178976	0	0	0
MVTS projekty	621870	104296	0	517574	15263
CE	0	0	0	0	0
vedecká výchova	7040	7040	0	0	0
bežné transfery (640)	215497	209028	6299	170	0
z toho: štipendiá	139814	139814	0	0	0
transfery partnerom projektov	275343	275343	0	0	0
Kapitálové výdavky	21012999	3318969	8315	17685715	17674542
v tom:					
obstarávanie kapitálových aktív	21012999	3318969	8315	17685715	17674542
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 31.12.2015 spolu**	**v tom:**	
		rozpočtové	**z mimoroz p. zdrojov**
Príjmy spolu	24135707	5840302	18295405
Nedaňové príjmy	24135707	5840302	18295405
v tom:			
príjmy z prenájmu	4329	0	4329
príjmy z predaja výrobkov a služieb	346971	0	346971
iné	0	0	0
Granty a transfery (mimo zdroja 111)	21547901	3346768	18201133
v tom:			
tuzemské	275343	275343	0
z toho: APVV	275343	275343	0
iné			
zahraničné	21272558	3071425	18201133
z toho: projekty rámcového programu EÚ	136479	0	136479
iné	21136079	3071425	18064654

13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2015 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 2015: 53 (30 pre CHÚ, 6 pre iné pracoviská v SR a 17 pre zahraničie). Získané kultúry v roku 2015: 53 (50 samostatne izolovaných a 3 získané z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 620 € a úspora predstavovala 2580 € (900 € za kmene pre CHÚ, 1590 € za izolované a získané kmene a 90 € za získané kmene zo zahraničia a iných pracovísk).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers* - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS). Impakt faktor časopisu v ostatných rokoch výrazne narastal (IF2012 = 0.879; IF2013 = 1.193; IF2014 = 1.468). Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav SAV. V období 2007-2014 bolo publikovanie tlačenej aj elektronickej verzie časopisu v kompetencii vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). Od roku 2015 je vydavateľom a distribútorom De Gruyter Open Ltd., pričom Copyright a Ownership patrí Chemickému ústavu SAV. Od roku 2012 vychádza 12 čísiel ročne (predtým 6 čísiel).

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment vzácnych sacharidov. Tieto dodáva na zahraničný trh, niektoré ako jediný producent na svete. Ústav je v priamom styku s viacerými poprednými svetovými firmami a prostredníctvom obchodných partnerov má kontakty s najvýznamnejšími dodávateľmi čistých chemikálií. Celkové tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2015 sumu 230936 €, čo je o vyše 62000 € viac ako vlani.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletné 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 46796 €. Príjmy za rozbory vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely, predstavovali sumu cca 9582 €. V súčasnosti je snahou získať pre toto laboratórium príslušný certifikát kvality, čo by prispelo k zvýšeniu tržieb.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2015

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Bertók Tomáš
Cena Predsedníctva SAV
Oceňovateľ: Predsedníctvo SAV
Opis: Za 1. miesto v Súťaži mladých vedeckých pracovníkov SAV do 35 r. za II. oddelenie vied SAV.

Mislovičová Danica
Významná osobnosť SAV 2015
Oceňovateľ: Predsedníctvo SAV
Opis: Za prínos akadémii a významnosť vedeckej práce.

15.1.2. Iné domáce ocenenia

Hushegyi András
Cena Ernesta Šturdíka za najlepšiu prácu v oblasti biotechnológie
Oceňovateľ: Slovenská spoločnosť pre biochémiu a molekulárnu biológiu
Opis: Za prácu "Ultrasenzitívna detekcia glykán-proteínových interakcií pomocou glykánového biosenzora", Drobnicov memoriál 8. ročník, Horský hotel Smrekovica, Podsuchá, 23.-25.9.2015 (spoluautor: Ing. Ján Tkáč, DrSc.).

Kis Peter
Diplom (v sekcii Organická, bioorganická, farmaceutická chémia, farmakológia)
Oceňovateľ: Občianske združenie PREVEDA
Opis: Za prácu "Syntéza 4-nitrofenyl-β-D-apiofuranozidu - chromogénneho substrátu pre spektrofotometrické stanovenie β-apiozidáz" na Interaktívnej konferencii mladých vedcov 2015 (spoluautori: Ing. Mária Mastihubová, PhD., Ing. Vladimír Mastihuba, PhD.).

Kluková Ľudmila
Diplom za 2. miesto v súťaži mladých vedeckých pracovníkov o najlepšiu prácu v odbore biochémia a molekulárna biológia
Oceňovateľ: Slovenská spoločnosť pre biochémiu a molekulárnu biológiu
Opis: Za prácu "Grafén ako inovatívny materiál využívaný pri príprave ultrasenzitívnych lektínových biosenzorov", Drobnicov memoriál 8. ročník, Horský hotel Smrekovica, Podsuchá, 23.-25.9.2015 (spoluautori: Ing. Jaroslav Filip, PhD. a Ing. Ján Tkáč, DrSc.).

Lux Alexander
Ďakovný list
Oceňovateľ: Dekan Prírodovedeckej fakulty UK v Bratislave
Opis: Pri príležitosti 75. výročia Prírodovedeckej fakulty UK v Bratislave.

Pakanová Zuzana
Best Lecture Award for Young Scientist
Oceňovateľ: Conference Chair and Visegrad Fund
Opis: Za najlepšiu prednášku mladého vedca na 20th International Conference "Analytical Methods and Human Health", June 15-18, 2015, Patince,Slovensko (Aplikácia hmotnostnej spektrometrie a NMR spektroskopie v diagnostike porúch metabolizmu glykokonjugátov).

15.2. Medzinárodné ocenenia

Biely Peter
Charles D. Scott Award
Oceňovateľ: Society for Industrial Microbiology (USA)
Opis: Za významné prínosy v oblasti biotechnológie pre produkciu palív a chemikálií.

Damborský Pavel
Award for outstanding poster presentation
Oceňovateľ: Organizing Committee of the 4th International Conference on Bio-Sensing

Technology, 10-13 May 2015, Lisbon, Portugal
Opis: Za prácu "Lectin-based glycoprofiling of prostate specific antigen using SPR and micro fluidics".

Damborský Pavel
Cena za 2. miesto v posterovej sekcii
Oceňovateľ: Organizačný výbor konferencie CEITEC PhD Retreat, April 23-24, 2015, Valtice, Czech Republic
Opis: Za prácu "Glyco-biosensing by surface plasmon resonance: Focus on lectin-based immunosensor for prostate cancer".

Kluková Ľudmila
1st Runner up Award under the category Bio-Sensors
Oceňovateľ: General Co-chairs and Technical Program Co-chairs of the Ninth International Conference on Sensing Technology, ICST 2015, 8-10 December 2015, Auckland, New Zealand
Opis: Za prácu "Graphene-based lectin biosensor for ultrasensitive detection of glycan structures applicable in early diagnostics" (spoluautori: Ing. Jaroslav Filip, PhD., Ing. Ján Tkáč, DrSc.).

Paulovičová Ema
Outstanding article
Oceňovateľ: Editorial team of the FEMS journals
Opis: Zaradenie článku "Humoral immune responses to Candida albicans complement receptor 3-related protein in the atopic subjects with vulvovaginal candidiasis. Novel sensitive marker for Candida infection. In FEMS Yeast Research, 2015, vol. 15, p. fou001 (8 pages)" do Virtual Special Issue: Immunology and Microbes. (spoluautor: Ing. Lucia Paulovičová, PhD.).

Pihíková Dominika
Young Scientist Award
Oceňovateľ: Co-Chairs of the 5th Regional Symposium on Electrochemistry South-East Europe, June 7-11, 2015, Pravets, Bulgaria
Opis: Za prácu "Fabrication of lectin-based immunosensor with reduced non-specific interations in favour of early-stage cancer diagnosis".

Poláková Monika
IUPAC Poster Prize
Oceňovateľ: International Union of Pure and Applied Chemistry
Opis: Za prácu "Synthesis of carbohydrate-based model compounds for inhibition of alfa-mannosidases from the GH family 38" at the 16th Austrian Chemistry Days, September 21-24, 2015, Innsbruck, Austria.

Vatehová Zuzana
Travel grant for international conference ICOBTE 2015
Oceňovateľ: Organizing Committe of the 13th International Conference on the Biogeochemistry of Trace Elements (ICOBTE 2015), July 12-16, 2015,Fukuoka, Japan
Opis: Za prácu "Toxic metals and plant cell walls".

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 bola vydaná brožúra k 60. výročiu založenia ústavu, ktorá obsahuje niektoré údaje o pracovisku až do roku 2013.

17. Problémy a podnety pre činnosť SAV

a) Prideľovanie finančných prostriedkov zo ŠR na schválené projekty

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

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

Oceňujeme rozhodnutie P SAV, že v r. 2015 neznížilo finančné prostriedky na granty akademickej agentúry VEGA a príspevok na vydávanie vedeckých časopisov (periodík).

b) Iné problémy pracoviska

Napriek tomu, že sa výrazne zmodernizovala prístrojová technika v Analytickom oddelení, ktoré bolo vďaka finančným prostriedkom (cca 17 mil. €) z troch implementovaných projektov OP ŠF, v ktorých bol ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiež došlo k zlepšeniu situácie aj v prístrojovom vybavení jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participoval ako partner), nedostatok kapitálových finančných prostriedkov neumožnil v roku 2015 výraznejšiu obnovu prístrojového vybavenia v Realizačnom oddelení a v Zbierke kvasiniek. Zbierka má možnosť používať špeciálne prístroje zakúpené z prostriedkov OP ŠF a dva prístroje slúžiace na identifikáciu kvasiniek pomocou molekulárno-biologických metód zakúpené v r. 2013 z vlastných zdrojov; potrebuje však obnoviť a dokúpiť základné prístrojové vybavenie, zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie a uzatvoriť priestory v ktorých sa nachádza, aby mohla splniť štandardy, ktoré vyžaduje OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO). Toto ako aj úplná rekonštrukcia počítačovej siete v budove bude prioritou pri účasti v ďalších výzvach OP ŠF EÚ.

Vzhľadom k havarijnému stavu zdravotechniky (vodoinštalácia, kúrenie, odpady, vzduchotechnika) v celej budove, je nevyhnutné pripraviť projekt a následne plán na jej postupnú komplexnú rekonštrukciu. V tomto smere bude potrebné vyčleniť čo najskôr prostriedky z rozpočtu SAV (alebo pripraviť projekt v rámci výziev OP ŠF EÚ), inak môže byť ohrozená činnosť šiestich ústavov sídliacich v budove. CHÚ SAV ako správca budovy musí vynakladať značné úsilie na časté riešenie havarijných stavov.

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: a) nesúlad vykazovania niektorých údajov v osnove a v ELVYS (napr. členstvo v národných komitétoch je podľa osnovy uvedené v podkapitole 4.2.1 ale v ELVYS je uvedené v podkapitole 9.6.; rozdielna terminológia v Tabuľkách 12a a 12b pre PO SAV); b) 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; c) zosúladiť používanie výrazov "zahraničný" a medzinárodný".

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 prispôsobiť súčasným potrebám a vedeckým trendom.

Oceňujeme ústretovosť Ú SAV a P SAV pri zabezpečovaní prostriedkov na prefinancovanie v rámci 5%-nej refundácie pre projekty OP VaV ŠF EÚ.

Správu o činnosti organizácie SAV spracoval(i):

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

Riaditeľ CHÚ SAV	**Predseda vedeckej rady**
.....	.....
Ing. Miroslav Koóš, DrSc.	Ing. Ján Tkáč, DrSc.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2015

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.	70	0.70
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	60	0.60
5.	Ing. Ján Hirsch, DrSc.	55	0.55
6.	Ing. Miroslav Koóš, 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.	5	0.05
12.	RNDr. Mária Vršanská, DrSc.	80	0.80
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.	Mgr. Peter Baráth, PhD.	50	0.13
3.	Ing. Tomáš Bertók, PhD.	140	1.40
4.	Ing. Emília Breierová, PhD.	100	1.00
5.	Ing. Marek Bučko, PhD.	100	1.00
6.	Ing. Peter Bystrický, PhD.	100	1.00
7.	Mgr. Peter Capek, PhD.	100	1.00
8.	Ing. Pavol Farkaš, PhD.	100	1.00
9.	Ing. Jaroslav Filip, PhD.	150	1.50
10.	RNDr. Ján Gajdoš, PhD.	100	1.00
11.	Ing. Eva Hrabárová, PhD.	100	1.00
12.	Ing. Miloš Hricovíni, PhD.	100	1.00
13.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00

14.	Ing. Zdenka Hromádková, PhD.	100	1.00
15.	Ing. Jaroslav Katrlík, PhD.	100	1.00
16.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
17.	RNDr. Karin Kollárová, PhD.	100	1.00
18.	Mgr. Juraj Kóňa, PhD.	100	1.00
19.	Ing. Zuzana Košťálová, PhD.	100	0.75
20.	Mgr. Stanislav Kozmon, PhD.	100	0.55
21.	RNDr. Desana Lišková, PhD.	100	1.00
22.	prof. RNDr. Alexander Lux, CSc.	5	0.05
23.	RNDr. Eva Machová, PhD.	60	0.60
24.	RNDr. Anna Malovíková, PhD.	100	1.00
25.	Ing. Vladimír Mastihuba, PhD.	100	1.00
26.	Ing. Mária Mastihubová, PhD.	100	1.00
27.	Ing. Danica Mislovičová, PhD.	30	0.25
28.	RNDr. Ján Mucha, CSc.	100	1.00
29.	Ing. Jozef Nahálka, PhD.	100	1.00
30.	Ing. Ema Paulovičová, CSc.	100	1.00
31.	Ing. Lucia Paulovičová, PhD.	100	1.00
32.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
33.	RNDr. Mária Petrušová, PhD.	80	0.80
34.	Ing. Monika Poláková, PhD.	100	1.00
35.	Mgr. Vladimír Puchart, PhD.	100	1.00
36.	Ing. Eva Stratilová, PhD.	100	1.00
37.	Mgr. Jana Šefčovičová, PhD.	100	0.36
38.	Ing. Sergej Šesták, PhD.	100	1.00
39.	Ing. Renáta Vadkertiová, PhD.	100	1.00
40.	Ing. Alica Vikartovská, PhD.	124	1.24
Vedeckí pracovníci			
1.	Ing. Maroš Bella, PhD.	100	1.00
2.	RNDr. Anikó Bertóková, PhD.	100	0.33
3.	Ing. Alžbeta Čížová, PhD.	100	1.00
4.	RNDr. Lucia Demovičová, PhD.	100	0.00
5.	Ing. Hana Dudášová, PhD.	100	0.33
6.	Mgr. Miroslava Ďuranová, PhD.	100	0.17
7.	Ing. Zuzana Firáková, PhD.	100	1.00

8.	Ing. Soňa Garajová, PhD.	100	0.00
9.	RNDr. Alena Holazová, PhD.	100	0.33
10.	Mgr. Lenka Kohútová, PhD.	100	0.00
11.	Mgr. Jana Korcová, PhD.	100	1.00
12.	RNDr. Ján Kozák, PhD.	100	1.00
13.	Mgr. Danica Kučerová, PhD.	100	0.00
14.	RNDr. Erika Lattová, PhD.	100	0.00
15.	Ing. Júlia Mičová, PhD.	100	0.00
16.	Ing. Marek Nemčovič, PhD.	100	0.92
17.	RNDr. Zuzana Neščáková, PhD.	100	0.25
18.	RNDr. Klaudia Palenčárová, PhD.	100	0.33
19.	Ing. Božena Pribulová, PhD.	100	1.00
20.	Ing. Andrea Schenkmayerová, PhD.	100	0.17
21.	Ing. Vladimír Sládek, PhD.	100	1.00
22.	Mgr. Mária Šedivá, PhD.	100	1.00
23.	Ing. Katarína Šuchová, PhD.	100	0.00
24.	Mgr. Zuzana Vatehová, PhD.	100	1.00
25.	RNDr. Jana Ziburová, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Ing. Antónia Barlíková	100	1.00
3.	Ing. Viera Bedrichová	100	1.00
4.	Ing. Štefan Belický	100	1.00
5.	Ing. Pavel Damborský	100	1.00
6.	Mgr. Erika Došeková	30	0.10
7.	RNDr. Mária Dzúrová	100	1.00
8.	Ing. Erika Farkašová	100	1.00
9.	Ing. András Hushegyi	100	1.00
10.	Ing. Andrej Chyba	100	0.33
11.	Ing. Peter Kis	8	0.06
12.	Ing. Ľudmila Kluková	30	0.30
13.	Ing. Filip Květoň	100	0.33
14.	Ing. Peter Magdolen	100	1.00
15.	Ing. Dominika Pihíková	100	1.00
16.	Ing. Ema Podobová	100	1.00

17.	Mgr. Elena Potocká	8	0.08
18.	PhDr. Eva Riganová	100	1.00
19.	RNDr. Vlasta Sasinková	100	1.00
20.	Ing. Hana Smrtičová	100	1.00
21.	Ing. Jozef Švec	100	1.00
22.	Ing. Jozef Tonka	100	1.00
23.	Ing. Jozef Turjan	100	1.00
24.	RNDr. Iveta Uhliariková	100	1.00
25.	Ing. Silvia Vlčková	100	1.00
26.	Bc. Jana Žabková	100	0.25
Odborní pracovníci ÚSV			
1.	Mária Bednáriková	100	1.00
2.	Alena Bordáčová	100	1.00
3.	Mária Cziszárová	100	1.00
4.	Helena Čigašová	100	1.00
5.	Eva Filipková	100	0.17
6.	Ľudmila Gažíková	100	1.00
7.	Jana Guthová	100	1.00
8.	Beáta Chválová	100	1.00
9.	Beáta Kalivodová	100	1.00
10.	Alžbeta Kanská	100	1.00
11.	Janka Komačková	100	1.00
12.	Ľudovít Kompaník	100	1.00
13.	Jana Köplingerová	100	1.00
14.	Mária Letáková	100	0.33
15.	Eva Morháčová	100	1.00
16.	Lukáš Németh	100	0.08
17.	Milan Novosad	100	1.00
18.	Nadežda Orthová	100	1.00
19.	Ondrej Pénzeš	100	1.00
20.	Margita Plšková	80	0.80
21.	Emília Rosová	100	1.00
22.	Kvetoslava Sabová	100	0.00
23.	Zdena Smolková	100	1.00
24.	Radoslava Šályová	125	1.25

25.	Alena Šoltésová	100	1.00
26.	Nadežda Šporánková	100	1.00
27.	Oľga Švančarová	100	1.00
28.	Vojtech Tóth	100	1.00
29.	Matej Vaš	100	1.00
30.	Mariana Vlčeková	100	1.00
31.	Erika Voleková	100	1.00
32.	Scarlett Weinzettlová	100	1.00
33.	Dana Žišková	125	1.25
Ostatní pracovníci			
1.	Ladislav Baláži	100	1.00
2.	Peter Cagáň	100	1.00
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.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Samostatní vedeckí pracovníci			
1.	Mgr. Ivan Zelko, PhD.	30.9.2015	0.75
Vedeckí pracovníci			
1.	Ing. Izabela Medovarská, PhD.	13.2.2015	0.13
2.	Ing. Jana Molnárová, PhD.	31.7.2015	0.58
Odborní pracovníci ÚSV			
1.	Mária Janáčiová	30.4.2015	0.27
2.	Jakub Mucha	14.8.2015	0.63

Zoznam doktorandov

	Meno s titulmi	**Škola/fakulta**	**Študijný odbor**
Interní doktorandi hradení z prostriedkov SAV			

1.	Ing. Marta Balaščáková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
2.	Mgr. Zsófia Csáky	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
3.	Mgr. Erika Došeková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
4.	Mgr. Lucia Fraňová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
5.	Ing. Michal Halaj	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
6.	Mgr. Viera Hrivnáková	Prírodovedecká fakulta UK	4.1.16 organická chémia
7.	Ing. Andrej Chyba	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
8.	Ing. Peter Kis	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
9.	Ing. Ľudmila Kluková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
10.	Mgr. Tomáš Klunda	Prírodovedecká fakulta UK	4.1.16 organická chémia
11.	Ing. Kristína Kováčová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
12.	Ing. Tomáš Krajčovič	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
13.	Mgr. Maroš Laho	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
14.	Mgr. Ivana Mišová	Prírodovedecká fakulta UK	4.1.22 biochémia
15.	Ing. Zuzana Pakanová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
16.	Mgr. Marek Pápay	Prírodovedecká fakulta UK	4.1.22 biochémia
17.	Mgr. Elena Potocká	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
18.	Ing. Mária Spišáková	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
19.	Mgr. Veronika Virčíková	Prírodovedecká fakulta UK	4.1.22 biochémia
20.	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			
1.	Ing. Silvia Vlčková	Prírodovedecká fakulta UK	4.1.16 organická chémia

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) 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 koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 2, Taiwan: 2
Čerpané financie:	SAV: 22000 €

Dosiahnuté výsledky:
V spolupráci s partnerským pracoviskom sa študovali dve glykozyl transferázy - cieľová bakteriálna α-1,3-FucT ako aj ľudská α-1,3-FucT s cieľom dizajnu selektívnych inhibítorov bakteriálnej α-1,3-FucT. Na tento účel sa pre kryštálové štruktúry oboch enzýmov vypočítali nasledovné chemické dáta: atómové náboje v aktívnom mieste enzýmu na hybridnej kvantovo-chemickej a molekulovo mechanickej (QM/MM) úrovni, dokovací grid pre dokovanie inhibítorov do tohto enzýmu. Následne sa do aktívneho miesta oboch GT dokovali známe inhibítory, ktoré boli opublikované taiwanskými partnermi. Cieľom prvej fázy dokovacích výpočtov bola kalibrácia navrhnutého modelu pre dizajn selektívnych inhibítorov α-1,3-FucT glykozyltransferázy z *Helicobacter pyroli*. Na základe výsledkov molekulového modelovania boli pripravené tri série mimetík tranzitného stavu reakcie, ktorých základ tvorili rozdielne sacharidové deriváty furanózového typu s D-frukto, D-psiko a D-tagato konfiguráciou. Tieto látky sú testované taiwanským partnerom s cieľom zistiť ich účinok a špecificitu na zvieracích i ľudských GT.

BARÁTH, Marek - LIN, Chun-Hung - TVAROŠKA, Igor - HIRSCH, Ján. Development of transition state analogue inhibitors for N-acetylglycosyltransferases bearing D-psico - and D-tagatofuranose scaffold. In Chemical Papers, 2015, vol. 69, p. 348-357. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

BELLA, Maroš - KOÓŠ, Miroslav - LIN, Chun-Hung. Towards inhibitors of glycosyltransferases: Novel approach to synthesis of 3-acetamido-3-deoxy-D-psicofuranose derivatives. In Beilstein Journal of Organic Chemistry, 2015, vol. 11, p. 1547-1552. (2.762 - IF2014). (2015 - Current Contents). ISSN 1860-5397. (ADCA)

TSENG, Yu-Yao - LIN, Chun-Hung - KÓŇA, Juraj - TVAROŠKA, Igor. Molecular modeling on interactions of lectins hCD22 and MAG with hCD22 antagonists. Manuscript v štádiu prípravy.

Programy: Medzivládna dohoda

2.) Stanovenie zmien glykozylácie proteínov súvisiacich s kolorektálnym karcinómom s využitím moderných citlivých lektínových biočipov s dopadom na výskum rakoviny, jej diagnostiku a terapiu *(Determination of glycosylation changes of proteins related to colorectal carcinoma using modern sensitive lectin biochips with impact to cancer research, diagnostics and therapy)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2015 / 31.12.2016
Evidenčné číslo projektu:	APVV-SK-SRB-2013-0028
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Srbsko: 3
Čerpané financie:	APVV: 2101 €

Dosiahnuté výsledky:
Poster na medzinárodnej vedeckej konferencii a pripravovaná publikácia.

Programy: COST

3.) 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:	58
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Výskum bol zameraný na interakcie medzi plazmovými proteínmi a koloidnými polymérnymi nosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR) (pokračujúca spolupráca s Dr. Georgijom Yordanovom, Chemická fakulta, Sofijská univerzita, Bulharsko) a sledovanie glykozylačných zmien pomocou biočipov a biosenzorov s využitím techník založených na lektíne.

ŠEDIVÁ, Alena - DAMBORSKÝ, Pavel - ZÁMOROVÁ, Martina - GEMEINER, Peter - NEDIČ, Olgica - KATRLÍK, Jaroslav. Lectin-based techniques for analysis of glycosylation changes using microarray and surface plasmon resonance platforms. In Programme Book: GLYCO 23 - XXIII International Symposium on Glycoconjugates, September 15-20, 2015, Split, Croatia. Zagreb: Spektar putovanja d.o.o., 2015, p. 35. In Glycoconjugate Journal, vol. 32, p. 282-283. ISSN 0282-0080. (AFE)

DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav. Glyco-biosensing of prostate specific antigen using

surface plasmon resonance lectin-based assay. In Conference Handbook ECIS 2015: ECIS 29th Conference of the European Colloid and Interface Society, 6-11 Spetember, 2015, Bordeaux, France. Bordeaux: ECIS, 2015, P14-35, p. 61. (AFK)

ŠEDIVÁ, Alena - KATRLÍK, Jaroslav. How to use lectin microarray in medicine. In OBRUSNÍK, Adam - FOJTŮ, Michaela - PEJOVIĆ, Jelena - HUDCOVÁ, Kristýna - SIEBEROVÁ, Monika (eds.). Book of Abstracts: CEITEC PhD Retreat, April 23-24, 2015, Valtice, Czech Republic. Brno: Masaryk University, 2015, p. 75, L42. ISBN 978-80-210-7825-3. (AFK)

ŠEDIVÁ, Alena - MEDOVARSKÁ, Izabela - SLANINKOVÁ, Ivana - GEMEINER, Peter - BYSTRICKÝ, Slavomír - KATRLÍK, Jaroslav. Study of interactions of mannan isolated from Candida dubliniensis with Concanavalin A and rabbit antisera. In Program & Abstracts: 18th European Carbohydrate Symposium EUROCARB 18, August 2-6, 2015, Moscow, Russia. Mocow: Zelinsky Institute of Organic Chemistry, 2015, p. 58. P-058. (AFK)

ŠEDIVÁ, Alena - ZÁMOROVÁ, Martina - ROBAJAC, Dragana - MILJUŠ, Goran - ŠUNDERIĆ Miloš - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Study of glycosylation changes with lectin-based protein microarray. In Abstracts: Global Biotechnology Congress 2015, July 22-25, 2015, Boston, MA, USA. Boston: Eureka Conferences, Inc., 2015, p. 317, PO-5. (AFK)

4.) 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:	55
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Pokračovala spolupráca s Dr. M Aguedom z University of Liege, Gembloux Agro-Bio Tech, Department of Industrial Biological Chemistry (Belgicko). Partnerská strana umožnila prístup k potrebnému extrakčnému zariadeniu pre štúdium podmienok izolácie pektínu z biomasy tekvice olejnej (odpad) s využitím mikrovlnného žiarenia. Sledoval sa vplyv tohto typu žiarenia a podmienok extrakcie na zloženie, molekulové vlastnosti a štruktúru izolovaného polysacharidu. V spolupráci so skupinou z Ege University, Engineering Faculty, Food Engineering Department, Izmir, Turecko, sa študovalo zloženie jemných šupiek lieskových orechov. Hľadali sa vhodné extrakčné postupy (aj s využitím ultrazvuku) na izoláciu polysacharidov a porovnávali sa s extrakčnými postupmi použitými na pracovisku v Izmire. Na štrukturálnu analýzu izolovaných polysacharidov bolo využité prístrojové vybavenie CHÚ SAV.

KOŠTÁLOVÁ, Zuzana - AGUEDO, Mario - HROMÁDKOVÁ, Zdenka. Microwave-assisted extraction of pectin from unutilized pumpkin biomass. In Chemical Engineering and Processing: Process Intensification, In press, DOI: 10.1016/j.cep.2015.12.009 (2.071 - IF2014). (2015 - Current Contents). ISSN 0255-2701. (ADCA)

5.) Zhodnotenie vedľajších prúdov spracovania lignocelulózovej biomasy pre udržateľnú produkciu chemikálií, materiálov a palív pomocou technológií s nízkym dopadom na životné prostredie *(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 Quimica Organica, Universidad de Cordoba, Cordoba
Počet spoluriešiteľských inštitúcií:	57
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Testovala sa hydroxylácia tyrozolu a jeho glykozidov rastlinnými polyfenoloxidázami a mikrobiálnou lakkázou naprodukovanou v laboratóriu Dr. Ligie Martins z Instituto de Tecnologia Quimica e Biologica,Universidade Nova de Lisboa, Oeiras, Portugalsko. Z výsledkov sa pripravuje spoločná publikácia.

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

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	16.3.2015 / 15.3.2019
Evidenčné číslo projektu:	CMST COST Action CM1407
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Bruno Botta, Universita degli Studi di Roma La Sapienza, Dipartimento di Chimica e Tecnologie del Farmaco, Rome
Počet spoluriešiteľských inštitúcií:	57
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3167 €

Dosiahnuté výsledky:
Otvárací Management Committee Meeting, ktorého sa zúčastnila Dr. Mastihubová, sa konal 16. marca 2015 v Bruseli. Hlavnou úlohou pre rok 2015 bolo kreovanie 4 pracovných skupín (WG), vymedzenie ich odborných činností, predstavenie sa jednotlivých národných zástupcov a voľby vedúcich odborných predstaviteľov projektu a držiteľa grantu. Prvý meeting všetkých WG ako aj druhé stretnutie Management Committee sa uskutočnilo 5.-6. októbra 2015 v Ríme, ktorého sa zúčastnila Dr. Mastihubová. Nadviazala spoluprácu s Dr. Carole Devaux z Department of Infection and Immunity, Luxembourg Institute of Health, Luxemburg a s Dr. Ľubicou Horákovou z Ústavu experimentálnej farmakológie a toxikológie SAV, Bratislava. Pre pracovisko v Luxemburgu sa budú syntetizovať rôzne zlúčeniny, ktoré sa budú testovať na antivirálne účinky (HIV, HCV) a v prípade bratislavského pracoviska pôjde o syntézu konkrétnych cieľových látok v preparatívnom merítku.

7.) 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:	51
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
V spolupráci s pracoviskom TU Darmstadt (Prof. Dr. W.-D. Fessner) sa testovala substrátová flexibilita enzýmov dostupných na CHÚ SAV a partnerskom pracovisku vzhľadom na multi-enzýmovú syntézu sialo-oligosacharidov. Úspešne sa potvrdilo využitie energetického modulu založeného na polyfosfát-kináze používanej a popísanej v Bratislave.

8.) 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 koordinátorom projektu:	nie
Koordinátor:	Prof. Daniele Passarella, Universita degli Studi di Milano Dipartimento di Chimica Organica e Industriale, Milano, Italy
Počet spoluriešiteľských inštitúcií:	52
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Dokončila sa kalibrácia počítačových modelov pre predikcie inhibítorov glykozidhydroláz s antirakovinotvornými účinkami. Na základe počítačových predpovedí bola navrhnutá séria pyrolidínových derivátov, z ktorých v roku 2015 bolo 6 syntetizovaných a testovaných na biologickú aktivitu na in vitro úrovni. Dve zlúčeniny vykazovali účinok na mikromolárnej úrovni a vysokú selektivitu voči cieľovému receptoru. Táto séria látok bola ďalej zaslaná na in vivo testy v rámci medzinárodnych spoluprác našich výskumných skupín zameraných na problematiku liečby rakoviny. Ďalej bola počítačovým modelovaním navrhnutá druhá séria pyrolidínových derivátov so zameraním na fukčné skupiny s elektrónakceptornými vlastnosťami a funkčnými skupinami, ktoré sú schopné vytvárať "σ-hole" halogénové väzby.

TVAROŠKA, Igor. Atomistic insight into the catalytic mechanism of glycosyltransferases by combined quantum mechanics/molecular mechanics (QM/MM) methods. In Carbohydrate Research, 2015, vol. 403, p. 38-47. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215. (ADCA)

KUMARI, Manju - KOZMON, Stanislav - KULHÁNEK, Petr - ŠTEPÁN, Jakub - TVAROŠKA, Igor - KOČA, Jaroslav. Exploring reaction pathways for O-GlcNAc transferase catalysis. A string method study. In The Journal of Physical Chemistry B, 2015, vol. 119, p. 4371-4381. (3.302 -

IF2014). (2015 - Current Contents). ISSN 1520-6106. (ADCA)

TVAROŠKA, Igor. QM/MM methods for studying enzymatic reactions of glycosyltransferases. In LÜTTEKE, Thomas - FRANK, Martin (eds.). Glycoinformatics (Series: Methods in Molecular Biology). New York, NY, USA: Humana Press, imprint of Springer Media, 2015, vol. 1273, chapter 29, p. 489-499. ISBN 978-1-4939-2342-7. (ABC)

TRNKA, Tomáš - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Stepwise catalytic mechanism via short-lived intermediate inferred from combined QM/MM MERP and PES calculations on retaining glycosyltransferase ppGalNAcT2. In PLoS Computational Biology, 2015, vol. 11, p. e1004061. (4.620 - IF2014). (2015 - WOS Core Collection, Scopus). ISSN 1553-734X. (ADMA)

POLÁKOVÁ, Monika - STANTON, Rhiannon - WILSON, Iain B. H. - HOLKOVÁ, Ivana - ŠESTÁK, Sergej - MACHOVÁ, Eva - JANDOVÁ, Zuzana - KÓŇA, Juraj. „Click chemistry" synthesis of 1-(α-D-mannopyranosyl)-1,2,3-triazoles for inhibition of α-mannosidases. In Carbohydrate Research, 2015, vol. 406, p. 34-40. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215. (ADCA)

BOBOVSKÁ, Adela - KÓŇA, Juraj - TVAROŠKA, Igor. Using DFT methods in computer-assisted design of selective inhibitors of human Golgi α-mannosidase II. In CSÁVÁS, Magdolna (ed.). Program and Abstracts: Debrecen Colloquium on Carbohydrates 2015 - Debcarb2015, November 6-8, 2015, Debrecen, Hungary. Debrecen: University of Debrecen, 2015, p. 63. P-18. ISBN 978-963-473-884-8. (AFK)

BOBOVSKÁ, Adela - KÓŇA, Juraj - TVAROŠKA, Igor. Computer-assisted design of selective inhibitors of glycoside hydrolases from the GH family 38. In Book of Abstracts: 16. Österreichische Chemietage (16th Austrian Chemistry Days), September 21-24, 2015, Innsbruck, Austria. Wien: Gesellschaft Österreichischer Chemiker, 2015, PO-65. ISBN 978-3-900554-74-3. (AFK)

9.) Multivalentné glykosystémy pre nanovedu - MultiGlykoNano *(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 koordinátorom projektu:	nie
Koordinátor:	Dr. Bruce Turnbull, University of Leeds, School of Chemistry, Leeds, United Kingdom
Počet spoluriešiteľských inštitúcií:	29
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3333 €

Dosiahnuté výsledky:
V spolupráci s pracoviskom v konzorciu (VŠCHT Praha) sa študoval vplyv CH/π interakcí na stabilitu sacharid-proteínových komplexov pomocou metadynamiky, ktorá umožnila charakterizovať úlohu vodíkových a hydrofóbnych interakcií na stabilitu týchto komplexov. Pokračovalo sa v štúdiu katalytického mechanizmu glykozyltransferáz pomocou QM/MM metód. Charakterizovaný bol katalytický mechanizmus glykozyltransferázy GTB, ktorá sa zúčastňuje biosyntézy krvnej skupiny B. Získané výsledky ukázali, prečo intermediát reakcie bol pozorovaný v

mutante a nie prirodzenom enzýme. Pripravená bola séria mimetík tranzitného stavu katalytickej reakcie ako potenciálnych protirakovinových liečív.

BARÁTH, Marek - KOÓŠ, Miroslav - TVAROŠKA, Igor - HIRSCH, Ján. Synthesis of glycomimetics of the inhibitors of glycosyltransferases representing UDP-GlcNAc. In Chemical Papers, 2015, vol. 69, p. 339-347. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

MAREŠKA, Václav - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Molecular simulations of hevein/$(GlcNAc)_3$ complex with weakened OH/O and CH/π hydrogen bonds: implications for their role in complex stabilization. In Carbohydrate Research, 2015, vol. 408, p. 1-7. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215. (ADCA)

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Theoretical study of enzymatic catalysis explains why the trapped covalent intermediate in the E303C mutant of glycosyltransferase GTB was not detected in the wild-type enzyme. In Glycobiology, 2015, vol. 25, p. 3-7. (3.147 - IF2014). (2015 - Current Contents). ISSN 0959-6658. (ADCA)

SLÁDEK, Vladimír - HOLKA, Filip - TVAROŠKA, Igor. Ab initio modelling of the anomeric and exo anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane corrected for intramolecular BSSE. In Physical Chemistry Chemical Physics, 2015, vol. 17, p. 18501-18513. (4.493 - IF2014). (2015 - Current Contents). ISSN 1463-9076. (ADCA).

TVAROŠKA, Igor. Sweets/bitter secrets of glycosyltransferases. In CSÁVÁS, Magdolna (ed.). Program and Abstracts: Debrecen Colloquium on Carbohydrates 2015 - Debcarb 2015, November 6-8, 2015, Debrecen, Hungary. Debrecen: University of Debrecen, 2015, p. 26, PL-5. ISBN 978-963-473-884-8. (AFE)

Programy: 7RP

10.) 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:	27
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 1400 €

Dosiahnuté výsledky:
Riešila sa najmä štruktúra biologicky aktívnych sacharidov (deriváty monosacharidov, synteticky modifikované polysacharidy a glykózaminoglykány). NMR laboratórium tiež spolupracovalo v oblasti metabolomiky s Diagnostickým centrom dedičných metabolických porúch Detskej fakultnej nemocnice na Kramároch v Bratislave. Zástupca SR sa zúčastnil na INSTRUCT Biennial Meeting, zasadaní INSTRUCT Council Meeting ako aj na INSTRUCT-ERIC group meeting. Okrem prezentácie výsledkov sa na zasadaní výboru INSTRUCT v máji 2015 prejednala činnosť za minulé

obdobie ako aj plán do nasledovného obdobia, hlavne príprava štatútu projektu INSTRUCT-ERIC, na ktorý sa project INSTRUCT bude tranformovať v r. 2016. Bolo podpísané Memorandum o porozumení medzi SR a konzorciom INSTRUCT a pripravené podklady pre MŠVVaŠ pre vstup SR do konzorcia INSTRUCT-ERIC.

HRICOVÍNI, Miloš. Solution structure of heparin pentasaccharide: NMR and DFT analysis. In The Journal of Physical Chemistry B, 2015, vol. 119, p. 12397-12409. (3.302 - IF2014). (2015 - Current Contents). ISSN 1520-6106. (ADCA)

HRICOVÍNI, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Olga. Experimental and computational insights into structure and NMR spin-spin coupling constants in heparin oligosaccharides. In Program & Abstracts: 18th European Carbohydrate Symposium EUROCARB 18, August 2-6, 2015, Moscow, Russia. Mocow: Zelinsky Institute of Organic Chemistry, 2015, p. 45, O101. (AFG)

11.) Štúdium reakčného mechanizmu glykozyltransferáz použitím ab initio molekulovej dynamiky ako pomôcky pri návrhu inhibítorov *(Study of reaction mechanism of glycosyl transferases using ab initio molecular dynamics as a tool for design of inhibitors)*

Zodpovedný riešiteľ:	Stanislav Kozmon
Trvanie projektu:	1.7.2015 / 30.6.2018
Evidenčné číslo projektu:	SASPRO 0005/01/02
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels, SAV: 32395 €

12.) 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: 132620 € Podpora medzinárodnej spolupráce z národných zdrojov: 16052 €

Dosiahnuté výsledky:
Projekt je zameraný na glykoprofilovanie proteínu "prostate specific antigen" (PSA), ktorý je využívaný ako biomarker rakoviny prostaty. Možnosti glykoprofilovania tohto proteínu boli spracované vo forme prehľadového článku. Okrem toho bola vyvinutá metóda s využitím techniky Surface Plasmon Resonance (SPR) na identifikáciu protilátok voči PSA, ktorá umožňuje nasledovnú glykoprofiláciu markera PSA s použitím lektínov. Sledované boli ciele: (1) využitie elektrochemickej impedančnej spektroskopie na „label-free“ glykoprofiláciu PSA v „sandwich“

formáte a (2) využívanie techniky proteínovej/lektínovej microarray a SPR prístroja na glykoprofilovanie PSA s využitím lektínov a protilátok. Na stanovenie PSA okrem využitia lektínov a protilátok boli navrhnuté a experimentálne vyskúšané aj DNA aptaméry v kombinácii s elektrochemickou impedančnou spektroskopiou.

BELICKÝ, Štefan - TKÁČ, Ján. Can glycoprofiling be helpful in detecting prostate cancer? In Chemical Papers, 2015, vol. 69, p. 90-111. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - CHU, Virginia - CONDE, João P. - KATRLÍK, Jaroslav. Surface plasmon resonance application in prostate cancer biomarker research. In Chemical Papers, 2015, vol. 69, p. 143-149. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

JOLLY, Pawan - FORMISANO, Nello - TKÁČ, Ján - KASÁK, Peter - FROST, Christopher G. - ESTRELA, Pedro. Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. In Sensors and Actuators B: Chemical, 2015, vol. 209, p. 306-312. (4.097 - IF2014). (2015 - Current Contents). ISSN 0925-4005. (ADCA)

TKÁČ Ján - ESTRELA, Pedro. Biosensors – Topical issue. In Chemical Papers, 2015, vol. 69, p. 1-3. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (BDCA)

13.) 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: 212227 € Podpora medzinárodnej spolupráce z národných zdrojov: 21915 €

Dosiahnuté výsledky:
Štúdium bolo zamerané na využitie elektrochemických metód, najmä však elektrochemickej impedančnej spektrometrie pri konštrukcii viacerých typov lektínových biosenzorov s ich možnosťou využitia v analýze reálnych vzoriek (séra pacientov s reumatoidnou artritídou) alebo pri konšrukcii glykánových biosensozorov, ktoré môžu byť aplikované v analýze hemaglutinínov (proteínov, ktoré sa nachádzajú na povrchu častíc vírusov chrípky). Prípravené boli biosenzory s vysokou selektivitou stanovenia s využitím zwiteriónov na báze betaínov na povrchovú modifikáciu týchto zariadení, s vysokou účinnosťou potlačenia nešpecifických interakcií. Pokroky využívania elektrochemických biosenzorov v rôznych aplikáciách boli spracované vo forme prehľadového článku v prestížnom časopise Chemical Reviews (IF2014 = 46.568).

BERTÓK, Tomáš - ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNÉ, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum. In

Langmuir, 2015, vol. 31, p. 7148-7157. (4.457 - IF2014). (2015 - Current Contents). ISSN 0743-7463. (ADCA)

HUSHEGYI, András - BERTÓK, Tomáš - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - TKÁČ, Ján. Ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. In Chemical Communications, 2015, vol. 51, p. 7474-7477. (6.834 - IF2014). (2015 - Current Contents). ISSN 1359-7345. (ADCA)

KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - PETRÍKOVÁ, Miroslava - ŠEDIVÁ, Alena - MISLOVIČOVÁ, Danica - KATRLÍK , Jaroslav - VIKARTOVSKÁ, Alica - KASÁK, Peter - ANDICSOVÁ-ECKSTEIN, Anita - MOSNÁČEK, Jaroslav - LUKÁČ, Jozef - ROVENSKÝ, Jozef - IMRICH, Richard - TKÁČ, Ján. Glycoprofiling as a novel tool in serological assays of systemic sclerosis: A comparative study with three bioanalytical methods. In Analytica Chimica Acta, 2015, vol. 853, p. 555-562. (4.513 - IF2014). (2015 - Current Contents). ISSN 0003-2670. (ADCA)

PALEČEK, Emil - TKÁČ, Ján - BARTOŠÍK, Martin - BERTÓK, Tomáš - OSTATNÁ, Veronika - PALEČEK, Jan. Electrochemistry of non-conjugated proteins and glycoproteins. Towards sensors for biomedicine and glycomics. Chemical Reviews, 2015, vol. 115, p. 2045-2108. (46.568 - IF2014). (2015 - Current Contents). ISSN 0009-2665. (ADCA)

14.) 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:	1 - Belgicko: 0, Nemecko: 0, Španielsko: 0, Francúzsko: 0, Veľká Británia: 0, Taliansko: 0, Holandsko: 0, Poľsko: 0, Portugalsko: 0, Rusko: 0, Slovensko: 1, Švédsko: 0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 1166 €

Dosiahnuté výsledky:
Posledná etapa projektu MIRRI bola venovaná vypracovaniu prehľadu aktivít a servisných činností jednotlivých zbierok mikroorganizmov zapojených do projektu (medzi nimi aj Zbierky kultúr kvasiniek), s cieľom uľahčiť záujemcom z výskumu a priemyslu prístup k týmto informáciám. Prehľad činností jednotlivých zbierok mikroorganizmov je uvedený na webovej stránke: www.mirri.org. Časť aktivít Zbierky kultúr kvasiniek bola venovaná aj identifikácii vybraných kvasinkových kultúr pomocou molekulárnych metód. Údaje o vybraných kvasinkových kultúrach budú vložené do katalógu kultúr kvasiniek a dostupné na webovej stránke Zbierky kultúr kvasiniek.

SCHÜNGEL, Manuela - VADKERTIOVÁ, Renáta - the MIRRI consortium. MIRRI – the microbial resource research infrastructure. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 42nd Annual Conference on Yeast, May 19-22, 2015, Smolenice, Slovakia. Bratislava: Yeast Commission, Institute of Chemistry SAS, 2015. P30, p. 77. ISSN 1336-4839. (AFL)

Programy: Iné

15.) 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): 77058 €

Dosiahnuté výsledky:
V rámci projektu boli syntetizované nové deriváty zwiteriónov, ktoré boli využívané na konštrukciu biosenzorov s dôrazom na zníženie nešpecifických interakcií. Pripravené boli aj rôzne nanomateriály ako napr. polypyrolové nanorúrky v kombinácii so zlatými nanočasticami využiteľné na konštrukciu rôznych zariadení na báze elektrochemických techník. Možnosti, aké sú k dispozícii pri analýze rôznych biomarkerov rakoviny, boli zosumarizované v prehľadovom článku spolu so zoznamom biomarkerov, ktoré je možné detegovať s využitím lektínov. Navyše bola zavedená referenčná technika na báze MALDI-TOF MS na analýzu biomarkerov rôznych typov rakoviny.

PIHÍKOVÁ, Dominika - KASÁK, Peter - TKÁČ, Ján. Glycoprofiling of cancer biomarkers: Label-free electrochemical lectin-based biosensors. In Open Chemistry, 2015, vol. 13, p. 636-655. (IF2014 - nemá). (2015 - Current Contents). ISSN 2391-5420. (ADCB).

FILIP, Jaroslav - KASÁK, Peter - TKÁČ, Ján. Graphene as a signal amplifier for preparation of ultrasensitive electrochemical biosensors. In Chemical Papers, 2015, vol. 69, p. 112-133. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352. (ADCA)

ILČÍKOVÁ, Markéta - FILIP, Jaroslav - MRLÍK, Miroslav - PLACHÝ, Tomáš - TKÁČ, Ján - KASÁK, Peter. Polypyrrole nanotubes decorated with gold particles applied for construction of enzymatic bioanodes and biocathodes. In International Journal of Electrochemical Science, 2015, vol. 10, p. 6558-6571. (1.500 - IF2014). (2015 - Current Contents). ISSN 1452-3981. (ADCA)

ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. Switchable materials containing polyzwitterion moieties. In Polymers, 2015, vol. 7, p. 2344-2370. (3.681 - IF2014). (2015 - Current Contents). ISSN 2073-4360. (ADCA)

Projekty národných agentúr

Programy: VEGA

1.) Biopolyméry mikrorias, produkcia, štrukturálna diverzita a vlastnosti *(Biopolymers of microalgae, production, structural diversity and properties)*

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.1.2015 / 31.12.2017

Evidenčné číslo projektu:	2/0018/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 8834 €

2.) Nové, výkonnejšie imobilizačné technológie pre biokatalyzátory oxidačno-redukčných reakcií a konštrukciu biosenzorov a biobatérií *(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: 14918 €

3.) 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: 6436 €

4.) 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 koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 9528 €

5.) 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: 17519 €

6.) Výskum antimikrobiálneho potenciálu včelej larválnej kašičky voči patogénom včelieho plodu *(Investigation of honeybee larval jelly antimicrobial potential to bee brood pathogens)*

Zodpovedný riešiteľ:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0175/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 6967 €

7.) 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: 7150 €

8.) 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: 1589 €

9.) 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: 15875 €

10.) 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: 15143 €

11.) 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: 6247 €

12.) Štruktúrna analýza N-viazaných oligosacharidov v špeciálnej diagnostike kongenitálných 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: 9751 €

13.) 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: 5300 €

14.) 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: 12022 €

15.) Štrukturálny dizajn, syntéza a evaluácia selektívnych inhibítorov glykozidhydroláz z rodiny GH38 *(Structural design, synthesis and evaluation of selective inhibitors of glycoside hydrolases from the family 38)*

Zodpovedný riešiteľ:	Monika Poláková
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0064/15

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 15929 €

16.) 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: 10619 €

17.) 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: 8237 €

18.) Diverzita, vlastnosti a aktivity pôdnych 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: 6912 €

Programy: APVV

19.) 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: 6000 €

20.) 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: 5650 €

21.) 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: 4292 €

22.) 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 €

23.) 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:	žiadne

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

Zodpovedný riešiteľ:	Jozef Huran
Zodpovedný riešiteľ v organizácii SAV:	Vlasta Sasinková
Trvanie projektu:	1.10.2013 / 31.12.2016
Evidenčné číslo projektu:	APVV-0443-12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 6460 €

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

Zodpovedný riešiteľ:	Jaroslav Katrlík

Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0753
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 15900 €

26.) 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: 26072 €

27.) 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: 47595 €

28.) 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: 30000 €

29.) Možná duálna funkcia P-glykoproteínu pri viacliekovej rezistencii leukemických buniek: efluxná pumpa a regulačný proteín *(Possible dual function of P-glycoprotein in leukemia cells: efflux pump and regulatory protein)*

Zodpovedný riešiteľ:	Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Katrlík
Trvanie projektu:	1.7.2015 / 31.10.2018
Evidenčné číslo projektu:	APVV-14-0334
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 2850 €

30.) 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: 28893 €

Programy: Štrukturálne fondy EÚ Výskum a vývoj

31.) Dobudovanie infraštruktúry pre biomedicínsky výskum *(Upgrading of infrastructure for biomedical research)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.11.2015 / 31.12.2015
Evidenčné číslo projektu:	26230120008
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 8317020 €

Dosiahnuté výsledky:
Zaobstaranie špičkovej prístrojovej infraštruktúry pre výskum v oblasti biomedicíny.

32.) 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:	žiadne

33.) Technická infraštruktúra výskumného pracoviska *(Technical infrastructure of research unit)*

Zodpovedný riešiteľ:	Vladimír Pätoprstý
Trvanie projektu:	1.11.2015 / 31.12.2015
Evidenčné číslo projektu:	26210120049
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Výskumná agentúra: 9367000 €

Dosiahnuté výsledky:
Vybavenie mimobratislavského pracoviska špičkovou prístrojovou technikou.

Príloha C

Publikačná činnosť organizácie (*generovaná z ARL*)

AAB Vedecké monografie vydané v domácich vydavateľstvách

AAB01 ZIGO, František. Vplyv suplementácie selénu a vitamínu E. Editors Ferko M. a Farkaš P. Banská Bystrica : Občianske združenie Preveda, 2015. 40 s. ISBN 978-80-970712-7-1.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 HRABÁROVÁ, Eva - ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Insoluble protein applications:the use of bacterial inclussion bodies as biocatalysts. In Insoluble Proteins : Methods and Protocols. - New York : Springer, 2015, 2015, vol. 1258, chapter 24, p. 411-422. ISBN 978-1-4939-2204-8.

ABC02 TVAROŠKA, Igor. QM/MM methods for studying enzymatic reactions of glycosyltransferases. In LÜTTEKE, Thomas - FRANK, Martin. Glycoinformatics (Series: Methods in Molecular Biology). - New York : Humana Press, imprint of Springer Media, 2015, 2015, vol. 1273, chapter 29, p. 489-499. ISBN 978-1-4939-2342-7.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

ADCA01 BARÁTH, Marek - LIN, Chun-Hung - TVAROŠKA, Igor - HIRSCH, Ján. Development of transition state analogue inhibitors for N-acetylglycosyltransferases bearing D-psico - and D-tagatofuranose scaffold. In Chemical Papers, 2015, vol. 69, p. 348-357. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

ADCA02 BARÁTH, Marek - KOÓŠ, Miroslav - TVAROŠKA, Igor - HIRSCH, Ján. Synthesis of glycomimetics of the inhibitors of glycosyltransferases representing UDP-GlcNAc. In Chemical Papers, 2015, vol. 69, p. 339-347. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

ADCA03 BARÁTH, Marek - HANSEN, Steen U. - DALTON, Charlotte - JAYSON, Gordon C. - MILLER, Gavin J. - GARDINER, John M. Modular synthesis of heparin-related tetra-, hexa- and octasaccharides with differential O-6 protections: programming for regio-defined 6-O-modifications. In Molecules, 2015, vol. 20, p. 6167-6180. (2.416 - IF2014). (2015 - Current Contents). ISSN 1420-3049.

ADCA04 BELICKÝ, Štefan - TKÁČ, Ján. Can glycoprofiling be helpful in detecting prostate cancer? In Chemical Papers, 2015, vol. 69, p.90-111. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

ADCA05 BELLA, Maroš - KOÓŠ, Miroslav - LIN, Chu-Hung. Towards inhibitors of glycosyltransferases: Novel approach to synthesis of 3-acetamido-3-deoxy-D-psicofuranose derivatives. In Beilstein Journal of Organic Chemistry, 2015, vol. 11, p. 1547-1552. ISSN 978-3-540-32911-4.

ADCA06 BERTÓKOVÁ, Anikó, Illésová - BERTÓK, Tomáš - FILIP, Jaroslav - TKÁČ, Ján. Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. In Chemical Papers, 2015, vol. 69, p. 27-41. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

ADCA07 BERTÓK, Tomáš - HOLAZOVÁ-ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNÉ, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Carboxybetaine modified

interface for electrochemical glycoprofiling of antibodies isolated from human serum. In Langmuir. - Wahington : American Chemical Society, 2015, vol. 31, p. 7148-7157. (4.457 - IF2014). (2015 - Current Contents). ISSN 0743-7463.

ADCA08 BIELY, Peter - MALOVÍKOVÁ, Anna - HIRSCH, Ján - MORKEBERG KROGH, K.B.R. - EBRINGEROVÁ, Anna. The role of the glucuronoxylan carboxyl groups in the action of andoxylanases of three glycoside hydrolase families: A study with two substrate mutants. In Biochimica et Biophysica Acta : general subjects, 2015, vol. 1850. ISSN 0304-4165.

ADCA09 BIELY, Peter - MALOVÍKOVÁ, Anna - UHLIARIKOVÁ, Iveta - LI, Xin-Liang - WONG, Dominic W.S. Glucuronoyl esterases are active on the polymeric substrate methyl esterified glucuronoxylan. In FEBS Letters, 2015, vol. 589, p. 2334-2339. (3.169 - IF2014). (2015 - Current Contents). ISSN 0014-5793.

ADCA10 BILKOVÁ, Andrea - PAULOVIČOVÁ, Ema - PAULOVIČOVÁ, Lucia - POLÁKOVÁ, Monika. Antimicrobial activity of mannose-derived glycosides. In Monatshefte für Chemie, 2015, vol. 146, p. 1707-1714. (1.222 - IF2014). (2015 - Current Contents). ISSN 0026-9247.

ADCA11 BIRKHOLZ, Alysia - NEMČOVIČ, Marek - YU, Esther Dawen - GIRARDI, Enrico - WANG, Jing - KHURANA, Archana - PAUWELS, Nora - FARBER, Elisa - CHITALE, Sampada - FRANCK, Richard W. - TSUJI, Moriya - HOWELL, Amy - VAN CALENBERGH, Serge - KRONENBERG, Mitchell - ZAJONC, Dirk M. Lipid and carbohydrate modifications of α-galactosylceramide differently influence mouse and human type I natural killer T cell activation. In Journal of Biological Chemistry, 2015, vol. 290, p. 17206-17217. (4.573 - IF2014). (2015 - Current Contents). ISSN 0021-9258.

ADCA12 BLANCO, Noelia - SANZ, Ana B. - RODRIGUES-PENA, Jose M. - NOMBELA, César - FARKAŠ, Vladimír - HURTADO-GUERRERO, Ramón - ARROYO, Javier. Structural and functional analysis of yeast Crh1 and Crh2 transglycosylases. In FEBS Journal, 2015, vol.282, p. 715-731. (4.001 - IF2014). (2015 - Current Contents). ISSN 1742-464X.

ADCA13 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Theoretical study of enzymatic catalysis explains why the trapped covalent intermediate in the E303C mutant of glycosyltransferase GTB was not detected in the wild-type enzyme. In Glycobiology, 2015, vol. 25, p. 3-7. (2015 - Current Contents). ISSN 1460-2423.

ADCA14 BRISSONNET, Yoan - LADEVOZE, Simon - TEZÉ, David - FABRE, Emeline - DENIAUD, David - DALIGAULT, Franck - TELLIER, Charles - ŠESTÁK, Sergej - REMAUD-SIMEON, Magali - POTOCKI-VERONESE, Gabrielle - GOUIN, Sébastien G. Polymeric iminosugars improve the activity of carbohydrate-processing enzymes. In Bioconjugate Chemistry, 2015, vol. 26, p. 766-772. (4.513 - IF2014). (2015 - Current Contents). ISSN 1043-1802.

ADCA15 CAPEK, Peter - ŠUTOVSKÁ, Martina - KOCMÁLOVÁ, Michaela - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Chemical and pharmacological profiles of Echinacea complex. In International Journal of Biological Macromolecules, 2015, vol. 79, p. 388-391. (2.858 - IF2014). (2015 - Current Contents). ISSN 0141-8130.

ADCA16 ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - BYSTRICKÝ, Slavomír. Ultrasonic and free-radical degradation of mannan from Candida albicans. In International Journal of Biological Macromolecules, 2015, vol. 75, p. 32-36. (2.858 - IF2014). (2015 - Current Contents). ISSN 0141-8130.

ADCA17 DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - CHU, Virginia - CONDE, João P. - KATRLÍK, Jaroslav. Surface plasmon resonance application in prostate cancer biomarker research. In Chemical Papers, 2015, vol. 69, p. 143-149. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

ADCA18 FILIP, Jaroslav - KASÁK, Peter - TKÁČ, Ján. Graphene as a signal amplifier for preparation of ultrasensitive electrochemical biosensors. In Chemical Papers, 2015, vol. 69, p. 112-133. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

ADCA19 HANSEN, Steen Uldall - DALTON, Charlotte E. - BARÁTH, Marek - KWAN, Glenn - RAFTERY, James - JAYSON, Gordon Charles - MILLER, Gavin John - GARDINER, John Michael. Synthesis of L-iduronic acid derivatives via [3.2.1] and [2.2.2] L-iduronic lactones from bulk glucose-derived cyanohydrin hydrolysis: A reversible conformationally-switched super-disarmed/re-armed lactone route to heparin disaccharides. In Journal of Organic Chemistry, 2015, vol. 80, p. 3777-3789. (4.721 - IF2014). (2015 - Current Contents). ISSN 0022-3263.

ADCA20 HRICOVÍNI, Miloš. Solution structure of heparin pentasaccharide: NMR and DFT analysis. In Journal of Physical Chemistry B, 2015, vol. 119, p. 12397-12409. (3.302 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.

ADCA21 HUSHEGYI, András - BERTÓK, Tomáš - DAMBORSKÝ, Pavel - KATRLÍK, Jaroslav - TKÁČ, Ján. Ultrasensitive impedimetric glycan biosensor with controlled glycan density for detection of lectins and influenza hemagglutinins. In Chemical Communication, 2015, vol. 51, p. 7474-7477. (6.834 - IF2014). (2015 - Current Contents). ISSN 1359-7345.

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AFL03 ČAPLOVIČ, Ján - JINDRA, Jiří. Anglickí doktorandi Jaroslava Heyrovského. In 67. Zjazd chemikov, 7. – 11. september 2015, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2015, chemZi, 2015, roč. 11, č. 1, s. 4Po02. ISSN 1336-7242.

AFL04 DROZDÍKOVÁ, Eva - BARDELČÍKOVÁ, Annamária - GERŠIOVÁ, A. - FARKAŠ, Vladimír - OBERNAUEROVÁ, Margita. Cell wall composition of Kluyveromyces lactis mutant deficient in anionic phospholipid synthesis. In Programme and Abstracts:42nd Annual Conference on Yeasts, 19-22 May, 2015, Smolenice, Slovakia. - Bratislava, 2015, p7, p. 54. ISSN 1336-4839.

AFL05 HALAJ, Michal - CAPEK, Peter - CEPÁK, Vladimír - LUKÁVSKY, Jaroslav - PŘIBYL, Pavel. Biopolymers produced by freshwater microalgae. In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel : 67. Zjazd chemikov : Horný Smokovec, 7.- 11. september 2015, 2015, roč.11, č. 1, p. 145, 3Po10. ISSN 1336-7242.

AFL06 HOLKA, Filip - SLÁDEK, Vladimír - TVAROŠKA, Igor. Anomeric and exo-anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane. In Book of Abstracts: 14th Central European Symposium on Theoretical Chemistry - CESTC 2015, September 6-9, 2015, Banská Bystrica, Slovakia. - Banská Bystrica : Faculty of Natural Sciences, Matej Bel University, 2015, p. 51. ISBN 978-80-557-0945-1.

AFL07 HOLKA, Filip - SLÁDEK, Vladimír - TVAROŠKA, Igor. Anomeric and exo-anomeric effects in 2-methoxytetrahydropyran and 2-methoxythiane. In Book of Abstracts: 6th JCS International Symposium on Theoretical Chemistry - JCS-2015, October 11-15, 2015, Smolenice Castle, Slovakia, Bratislava: Institute of Inorganic Chemistry. - 2015, p. 70. ISBN 978-80-971648-4-3.

AFL08 HRICOVÍNI, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Olga L. NMR and DFT analysis of 3D structure and spin-spin coupling constants in heparine trisaccharide. In 67. Zjazd chemikov, 7. – 11. september 2015, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2015, chemZi, 2015, roč. 11, č. 1, s. 112, 1Po05. ISSN 1336-7242.

AFL09 HRICOVÍNIOVÁ, Zuzana. Expanding the scope of Mo(VI)-catalyzed transformations of carbohydrates. In 67. Zjazd chemikov, 7. – 11. september 2015, Vysoké Tatry, Horný Smokovec, Slovensko. - Bratislava : Slovenská chemická spoločnosť, 2015, chemZi, 2015, roč. 11, č. 1, s. 148-149, 3Po16. ISSN 1336-7242.

AFL10 KOVÁČOVÁ, Kristína - FARKAŠ, Vladimír. Properties and inhibition of transglycosylases of the yeast cell wall. In Program and Abstracts: 42nd Annual Conference on Yeasts, 19-22 May, 2015, Smolenice, Slovakia. - Bratislava, 2015, p17, p, 64. ISSN 1336-4839.

AFL11 LIPTÁK, Boris - KNEZL, Vladimír - BREIEROVÁ, Emília - FRIMMEL, Karel - KRIŽÁK, Jakub - OKRUHLICOVÁ, Ľudmila. Effects of yeats biomass producing carotenoids on rat heart function after endotoxin administration. In 42nd Annual Conference on Yeats, 19-22 May, 2015, Smolenice. - Bratislava, 2015, p21, p. 68. ISSN 1336-4839.

AFL12 LOKAJ, Ján - MONCOĽ, Ján - BELLA, Maroš - MILATA, Viktor. Kryštálová štruktúra (2,1,3-benzoselenadiazol-4-yl)aminometylénmalónanu etylového.

AFL13 SCHUNGEL, Manuela - VADKERTIOVÁ, Renáta. MIRRI The microbial resource research infrastucture. In Program and Abstracts: 42nd Annual Conference on Yeasts, 19-22 May, 2015, Smolenice, Slovakia. - Bratislava, 2015, p12, p.59. ISSN

1336-4839.

AFL14 SIVOVÁ, Veronika - NOSÁĽOVÁ, Gabriela - JUREČEK, Ľudovít - TURJAN, Jozef - KOZÁK, Ján - CAPEK, Peter. Pharmacological effect of beech glucuronoxylan sulfates. In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel : 67. Zjazd chemikov : Horný Smokovec, 7.- 11. september 2015, 2015, roč.11, č. 1, p. 162, 3Po42. ISSN 1336-7242.

AFL15 STRATILOVÁ, Barbora - PAVLATOVSKÁ, Barbora - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Lactose induced galactosidases of genius cryptococcus. In Program and Abstracts: 42nd Annual Conference on Yeasts, 19-22 May, 2015, Smolenice, Slovakia. - Bratislava, 2015, p11, p. 58. ISSN 1336-4839.

AFL16 STRATILOVÁ, Barbora - LEDVINA, Vojtech - HAMŘÍKOVÁ, Dominika - JURNEČKOVÁ, Alena - MOLNÁROVÁ, Jana - OMELKOVÁ, Jiřina - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Optimization of sample preparation for biotyping of cryptococcus yeats. In Programme and Abstracts: 42nd Annual Conference on Yeasts, 19-22 May, 2015, Smolenice, Slovakia. - Bratislava, 2015, p21, p. 68. ISSN 1336-4839.

BDCA Odborné práce v zahraničných karentovaných časopisoch impaktovaných

BDCA01 TKÁČ, Ján - ESTRELA, Pedro. Biosensors – Topical issue. In Chemical Papers, 2015, vol. 69, p. 1-3. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.

BDF Odborné práce v ostatných domácich časopisoch

BDF01 FILIP, Jaroslav - KLUKOVÁ, Ľudmila - TKÁČ, Ján. Krásny nový bioelektronanosvet. In Quark, roč. XXI, č. 2, s. 28-29. ISSN 1335-4000.

BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

BEF01 BIELY, Peter. Zaujímajte sa o prebiotiká. In Vôňa vedy. - Martin : Vydavateľstvo Matice slovenskej, 2015, s. 103-107. ISBN 978-80-8115-206-1.

BEF02 BIELY, Peter. Pohonné látky z celulózy. In Vôňa vedy. - Martin : Vydavateľstvo Matice slovenskej, 2015, s. 80-83. ISBN 978-80-8115-206-1.

BEF03 BIELY, Peter. Bunkové steny rozhodujú. In Vôňa vedy. - Martin : Vydavateľstvo Matice slovenskej, 2015, s. 45-47. ISBN 978-80-8115-206-1.

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

FAI01 Zborník príspevkov 2. konferencie centier excelentnosti: Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií, 25. jún 2015, Slovenská poľnohospodárska univerzita v Nitre, Nitra. Bratislava : Chemický ústav SAV, 2015. ISBN 978-80-971156-2-3.

FAI02 Interaktívna konferencia mladých vedcov 2015 : book of abstracts. Editori: Miroslav Ferko, Pavol Farkaš. Banská Bystrica : Občianske združenie Preveda, 2015. Nestr. ISBN 978-80-970712-8-8.

FAI03 42nd Annual Conference on Yeasts, 19-22 May, 2015, Smolenice, Slovakia: Programme and Abstracts. Editori Ivan Hapala, Emília Breierová. Bratislava, 2015. 96 s. ISSN 1336-4839.

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

GII01 BABOR, Karol - BIELY, Peter - FARKAŠ, Vladimír - KOÓŠ, Miroslav. Chemický ústav Slovenskej akadémie vied: 2003-2013 (brožúra k 60. výročiu), 48 strán. Bratislava : Chemický ústav Slovenskej akadémie vied, 2015.

GII02 BABOR, Karol - BIELY, Peter - FARKAŠ, Vladimír - KOÓŠ, Miroslav. Institute of Chemistry, Slovak Academy of Sciences: 2003-2013 (brochure - 60th anniversary), 48 pages. Preložené pod názvom: Bratislava : Institute of Chemistry SAS, 2015.

GII03 BERTÓK, Tomáš - KRPELAN, Filip. Moderný vedec musí byť trochu polyhistor. In Správy Slovenskej akadémie vied, 2015, roč. 51, č. 1, s. 11. ISSN 0139-6307.

GII04 BIELY, Peter. Pred sto rokmi sa narodila Dr. Anna Kocková-Kratochvílová. In Správy Slovenskej akadémie vied, 2015, roč. 51, č. 1, s. 26. ISSN 0139-6307.

GII05 BIELY, Peter - PODSTUPKA, Martin. Prestížna cena slovenskému biochemikovi. In Správy Slovenskej akadémie vied, 2015, roč. 51, č. 3, s. 19. ISSN 0139-6307.

GII06 FERKO, Miroslav - FARKAŠ, Pavol. VII. ročník Interaktívnej konferencie mladých vedcov pokračuje v znamení noviniek. In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel : 67. Zjazd chemikov : Horný Smokovec, 7.- 11. september 2015, 2014, roč.10, č. 2, s. 62-63. ISSN 1336-7242.

GII07 KOÓŠ, Miroslav - PODSTUPKA, Martin. Hranica nie je ostrá. In Správy Slovenskej akadémie vied, 2015, roč. 51, č. 2, s. 8-10. ISSN 0139-6307.

GII08 MASTIHUBA, Vladimír. Chemické horizonty – jesenný cyklus 2014. In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel : 67. Zjazd chemikov : Horný Smokovec, 7.- 11. september 2015, 2014, roč.10, s. 64. ISSN 1336-7242.

GII09 TKÁČ, Ján - BERTÓK, Tomáš - PODSTUPKA, Martin. Česko-slovenský článok v prestížnom časopise Chemical Reviews. In Správy Slovenskej akadémie vied, 2015, roč. 51, č. 2, s. 23. ISSN 0139-6307.

GII10 TKÁČ, Ján - FILIP, Jaroslav - PETROVIČ, Ján. Naši vedci odhalili svetu, ako použiť materiál budúcnosti. Elektrobaterka bude slzami napájať kameru v oku. In Aktuality.sk, Správy, 10.08.2015. http://www.aktuality.sk/clanok/301612/.

GII11 TKÁČ, Ján - JANCURA, Vladimír. Najväčšie mozgy odišli, treba ich pritiahnuť späť. In Príloha denníka Pravda-Víkend-Rozhovor, 17. január 2015, s. 20-22.

GII12 VADKERTIOVÁ, Renáta - BREIEROVÁ, Emília. The 100th anniversary of the birth of Anna Kocková-Kratochvílová (1915-1992). In Yeast Newsletter, 2015, vol. LXIV, no. II, p. 57-58. ISSN 0513-5222.

GII13 VRŠANSKÁ, Mária. Pocta pre slovenskú biochémiu. In ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel : 67. Zjazd chemikov : Horný Smokovec, 7.- 11. september 2015, 2015, roč.11, č. 1, s. 22. ISSN 1336-7242.

GII14 VRŠANSKÁ, Mária. Pocta pre slovenskú vedu. In Bulletin Československej spoločnosti mikrobiologickej, 2015, roč. LVI, č. 2, s. 85-86. ISSN 0009-0646.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Miloš Hricovíni, PhD.
Názov semestr. predmetu: Rezonančná spektroskopia (1. a 2. roč. Mgr. štúdia, študijný odbor Fyzikálna chémia)
Počet hodín za semester: 12
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej chémie

RNDr. Desana Lišková, PhD.
Názov semestr. predmetu: Regulačné molekuly v raste, morfogenéze a obranných procesoch rastlín (1. ročník Mgr. štúdia, študijný odbor Biológia)
Počet hodín za semester: 12
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

doc. Ing. Ladislav Petruš, DrSc.
Názov semestr. predmetu: Chémia sacharidov (2. roč. Mgr. štúdia, študijný odbor Chémia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Igor Tvaroška, DrSc.
Názov semestr. predmetu: Biofyzikálna chémia a koloidná chémia (3. roč. Bc. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta prírodných vied UKF, Katedra chémie

Semestrálne cvičenia:

Ing. Peter Kis
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie I (2. roč. Bc. štúdia)
Počet hodín za semester: 30
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie/Ústav organickej chémie, katalýzy a petrochémie

Ing. Peter Kis
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie II (2. roč. Bc. štúdia)
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie/Ústav organickej chémie, katalýzy a petrochémie

Mgr. Tomáš Klunda
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie (1. roč. Bc. štúdia)
Počet hodín za semester: 48
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Mgr. Tomáš Klunda
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie (2. roč. Bc. štúdia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Kristína Kováčová
Názov semestr. predmetu: Laboratórne cvičenia z biochémie (2. roč. Bc. štúdia)
Počet hodín za semester: 40
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie/Ústav biochémie, výživy a ochrany zdravia

Ing. Zuzana Pakanová
Názov semestr. predmetu: Laboratórne cvičenia z biochémie (2. roč. Bc. štúdia)
Počet hodín za semester: 40
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie/Ústav biochémie, výživy a ochrany zdravia

Mgr. Elena Potocká
Názov semestr. predmetu: Laboratórne cvičenie z enzymológie a enzýmového inžinierstva (2. roč. Mgr. štúdia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochemickej technológie/Ústav biotechnológie a potravinárstva

Ing. Mária Spišáková
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie I (2. roč. Bc. štúdia)
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie/Ústav organickej chémie, katalýzy a petrochémie

Semináre:

Mgr. Tomáš Klunda
Názov semestr. predmetu: Seminár z organickej chémie (1. roč. Bc. štúdia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Mgr. Tomáš Klunda
Názov semestr. predmetu: Seminár z organickej chémie (2. roč. Bc. štúdia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Individuálne prednášky:

Mgr. Peter Baráth, PhD.
Názov semestr. predmetu: Proteomika (v rámci predmetu Pokročilé metódy molekulárnej biológie - 1. a 2. roč. Mgr štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Ing. Renáta Vadkertiová, PhD.
Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova (3. roč. Bc. štúdia)
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Príloha E

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Belgicko					Jaroslav Katrlík	7
Česko			Peter Capek	11	Štefan Belický	5
					Tomáš Bertók	7
					Marek Bučko	1
					Peter Gemeiner	1
					Miloš Hricovíni	1
					Stanislav Kozmon	15
					Tomáš Krajčovič	2
					Erika Lattová	365
					Júlia Mičová	365
					Monika Poláková	1
					Ján Tkáč	3
					Igor Tvaroška	36
					Jana Ziburová	2
Fínsko					Tomáš Klunda	18
Francúzsko					Peter Biely	5
					Soňa Garajová	365
					Ivan Zelko	273
JAR					Andrea Schenkmayerová	306
Maďarsko					Ján Tkáč	1
Nemecko					Peter Biely	1
					Klaudia Palenčárová	19
					Vladimír Puchart	1
Poľsko			Peter Capek	15		
Portugalsko					Štefan Belický	14
					Pavel Damborský	14
					Jaroslav Katrlík	6

Rakúsko					Zuzana Pakanová	11
Srbsko	Jaroslav Katrlík	8				
	Martina Zámorová	8				
Švajčiarsko					Peter Capek	5
Taliansko					Pavel Damborský	19
					Jaroslav Katrlík	4
USA					Marek Nemčovič	31
Veľká Británia					Štefan Belický	43
					Pavel Damborský	31
					Vladimír Farkaš	4
					Miloš Hricovíni	2
					Jaroslav Katrlík	4
					Zuzana Košťálová	92
Počet vyslaní spolu	**2**	**16**	**2**	**26**	**37**	**2080**

(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			Bc. Ivana Pernicová	61	Dr. Dana Vránová	14
Maďarsko					Ing. Eszter Szennyes	7
Nemecko					Dr. Christian Reiter	1
					Dr. Klaus P. Maag	1
Poľsko			Ing. Rafal Ziewiecki	46	Dr. Dorota Kregiel	14
Srbsko	Mgr. Dragana Robajac	8				
	Mgr. Goran Miljuš	8				
	Prof. Olgica Nedić	8				
Počet prijatí spolu	**3**	**24**	**2**	**107**	**5**	**37**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália	ICNB 2015	Pavel Damborský	16
		Dominika Pihíková	16
Belgicko	COST Action CM1407-MC	Mária Mastihubová	3
Bulharsko	RSESEE 2015	Jaroslav Filip	6
		András Hushegyi	6
		Ľudmila Kluková	6
		Dominika Pihíková	6
		Ján Tkáč	5
Česko	16. Škola HS	Silvia Vlčková	6
	CEITEC PhD Retreat	Pavel Damborský	2
		Alena Holazová	2
		András Hushegyi	2
		Dominika Pihíková	2
		Martina Zámorová	2
	Chemistry & Life 2015	Emília Breierová	3
	Cost Action FP1306	Vladimír Mastihuba	3
	EBR 2015	Karin Kollárová	3
		Zuzana Vatehová	4
	Glycoscience 2015	Michal Halaj	3
		Ján Hirsch	3
Čína	ISPMF 2015	Peter Capek	15
Fínsko	CBM 2015	Vladimír Puchart	4
Francúzsko	ECCO 2015	Renáta Vadkertiová	4
	Fungal Cell Wall 2015	Vladimír Farkaš	5
	SSGC 2015	Elena Potocká	4
	SSIEM 2015	Zuzana Pakanová	5
	YRFM 2015	Lucia Fraňová	4
		Elena Potocká	4
Chorvátsko	GLYCO 23	Jaroslav Katrlík	8
		Ján Tkáč	7
Maďarsko	Debcarb2015	Juraj Kóňa	3
		Igor Tvaroška	3
Nový Zéland	ICST 2015	Štefan Belický	17
		Ľudmila Kluková	17
Poľsko	EPNOE 2015	Alžbeta Čížová	8
Portugalsko	ANM 2015	Jaroslav Filip	5
	ICBST 2015	Pavel Damborský	7
		Jaroslav Katrlík	6
		Ľudmila Kluková	7
		Dominika Pihíková	7
Rakúsko	BIOTRANS 2015	Klaudia Palenčárová	6
	COST Action TD1203	Zuzana Košťálová	7
	ECI 2015	Ema Paulovičová	3
		Lucia Paulovičová	3
	MassSpec 2015	Kristína Kováčová	2
		Marek Nemčovič	2
		Zuzana Pakanová	2

		Dominika Pihíková	1
		Eva Stratilová	2
		Silvia Vlčková	2
	ÖC-ACD 2015	Marek Baráth	6
		Maroš Bella	5
		Ján Hirsch	6
		Zuzana Hricovíniová	5
		Tomáš Klunda	5
		Juraj Kóňa	5
		Monika Poláková	5
Rumunsko	EBC 2015	Ján Tkáč	5
Rusko	EUROCARB 18	Peter Capek	8
		Miloš Hricovíni	6
		Jaroslav Katrlík	8
Španielsko	ICBB'15	András Hushegyi	5
		Ľudmila Kluková	5
		Dominika Pihíková	5
Švédsko	XXIII ISBBBS	Ján Tkáč	8
Taliansko	COST Action CM1407	Mária Mastihubová	3
	INSTRUCT 2015	Miloš Hricovíni	5
	ISSY 2015	Renáta Vadkertiová	7
USA	GBC 2015	Alena Holazová	15
	ICLFT 2015	Štefan Belický	13
		Ľudmila Kluková	13
	SBFC 2015	Peter Biely	7
	SPIE Optics 2015	Vlasta Sasinková	14
Veľká Británia	ISECM-WSS 2015	Jaroslav Filip	5
Spolu	**39**	**74**	**438**

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

Skratky použité v tabuľke C:

16. Škola HS - 16. Škola hmotnostní spektrometrie
ANM 2015 - ANM 2015: 1st International Conference on Graphene Technology
BIOTRANS 2015 - BIOTRANS 2015
CBM 2015 - 11th Carbohydrate Bioengineering Meeting
CEITEC PhD Retreat - CEITEC PhD Retreat
Chemistry & Life 2015 - Chemistry & Life 2015
COST Action CM1407 - 1st Meeting of COST Action CM1407: Challenging Organic Syntheses Inspired by Nature-from Natural Products Chemistry to Drug Discovery
COST Action CM1407-MC - COST Action CM1407 Management Committee Meeting
Cost Action FP1306 - Cost Action FP1306 Management Committee Meeting
COST Action TD1203 - COST Action TD1203 EUBIS Semmering/Vienna WG and MC meeting
Debcarb2015 - Debrecen Colloquium on Carbohydrates 2015
EBC 2015 - European Biotechnology Congress 2015
EBR 2015 - 14. Konference experimentální biologie rostlin
ECCO 2015 - ECCO XXXIV: European Culture Collections as tools in research and biotechnology
ECI 2015 - 4th European Congress of Immunology
EPNOE 2015 - 4th EPNOE International Polysaccharide Conference
EUROCARB 18 - 18th European Carbohydrate Symposium
Fungal Cell Wall 2015 - Fungal Cell Wall 2015
GBC 2015 - Global Biotechnology Congress 2015
GLYCO 23 - XXIII International Symposium on Glycoconjugates
Glycoscience 2015 - 11th International Conference on Polysaccharides-Glycoscience

ICBB'15 - World Congress on New Technologies (NewTech 2015), International Conference on Biotechnology and Bioengineering
ICBST 2015 - 4th International Conference on Bio-Sensing Technology
ICLFT 2015 - 2nd International Conference on Label-Free Technologies
ICNB 2015 - 17th International Conference on Nanotechnology and Biotechnology
ICST 2015 - 2015 Ninth International Conference on Sensing Technology
INSTRUCT 2015 - Instruct Biennial Structural Biology Meeting
ISECM-WSS 2015 - 4th International Symposium on Energy Challenges & Mechanics - Working on Small Scales
ISPMF 2015 - International Symposium on Phytochemicals in Medicine and Food
ISSY 2015 - 32nd International Specialised Symposium on Yeasts
MassSpec 2015 - 26th MassSpec-Forum-Vienna-2015
ÖC-ACD 2015 - 16. Österreichische Chemietage (16th Austrian Chemistry Days)
RSESEE 2015 - 5th Regional Symposium on Electrochemistry South-East Europe
SBFC 2015 - 37th Symposium on Biotechnology for Fuels and Chemicals
SPIE Optics 2015 - SPIE Optics + Photonics for Sustainable Energy 2015: Conference 9563: Reliability of Photovoltaic Cells, Modules, Components, and Systems VIII
SSGC 2015 - 1st Summer School on Green Chemistry
SSIEM 2015 - Official Satellite Symposia Second World Conference on Congenital Disorders of Glycosylation (CDG) for Families and Professionals
XXIII ISBBBS - XXIII International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society
YRFM 2015 - 22nd Young Research Fellow Meeting

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