Chemický ústav SAV

Správa o činnosti organizácie SAV za rok 2012

Bratislava
január 2013

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E Medzinárodná mobilita organizácie

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV
Riaditeľ: Ing. Miroslav Kóš, 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 Kóš, DrSc.
Adresa: Dúbravská cesta 9, 845 38 Bratislava

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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	131	50	81	10	20	117	106,88	59,12
Vedeckí pracovníci	69	34	35	6	11	55	50,4	47,65
Odborní pracovníci VŠ	22	7	15	3	7	22	17,47	11,47
Odborní pracovníci ÚS	30	4	26	1	2	30	29,88	0
Ostatní pracovníci	10	5	5	0	0	10	9,13	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2012 (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 31.12.2012 (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 31.12.2012)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	10	24	1	3	10	13	11
Ženy	0	35	0	0	1	19	15

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	3	3	2	2	1	4	6	4	5
Ženy	5	7	2	4	0	6	9	2	3

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2012

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	51,2	50,5	52,1
Ženy	47,7	47,0	47,1
Spolu	49,0	48,7	49,3

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

V roku 2012 nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii Chemického ústavu, ktorá bola naďalej zameraná na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

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

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

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Zoznam domácich projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
			A		B
	A	B	spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2012 financované VEGA	19	3	147802	147802	28802
2. Projekty, ktoré boli r. 2012 financované APVV	2	5	53303	53303	30261
3. Projekty OP ŠF	2	3	7281611	6533248	24781
4. Projekty centier excelentnosti SAV	1	0	40101	26734	-
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 Zoznam domácich projektov podaných v roku 2012

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2012	-	9	8
2. Projekty výziev OP ŠF podané r. 2012	Bratislava	0	0
	Regióny	1	0
3. Projekty výziev FM EHP podané r. 2012	-	0	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2012

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
			A		B
	A	B	spolu	pre organi-záciu	
1. Projekty 6. a 7. rámcového programu EÚ	0	4	-	-	66630
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF, ESA a iné	0	9	-	-	4999
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	2	0	10156	3517	-
4. Bilaterálne projekty	4	2	22500	22500	6796
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	0	11	-	-	38330
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

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

2.2.2. Medzinárodné projekty v 7. RP EÚ podané v roku 2012

Tabuľka 2d Podané projekty 7. RP EÚ v roku 2012

	A	B
Počet podaných projektov v 7. RP EÚ	1	0

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

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

Chemický ústav SAV sa v roku 2012 podieľal na implementácii 5 projektov štrukturálnych fondov EÚ (ako nositeľ projektu: 1 vo výzve OPVaV-2009/4.1/03-SORO a 1 vo výzve OPVaV-2009/2.1/03-SORO; ako partner: 2 vo výzve OPVaV-2009/4.1/02-SORO a 1 vo výzve OPVaV-2011/4.2/07-SORO).

Čerpanie bolo zamerané najmä na vybavenie pracoviska modernou prístrojovou technikou, ktorá je nevyhnutná pre udržanie unikátneho postavenia Chemického ústavu SAV v oblasti výskumu glykomiky. Vzhľadom na dlhoročné podfinancovanie kapitálovými prostriedkami bola prístrojová infraštruktúra ústavu nedostatočná.

V súčasnosti je získaná unikátna prístrojová technika v plnej prevádzke, ktorá však vyžaduje pomerne značné finančné prostriedky. Preto účasť v ďalších výzvach ŠF EÚ bude zameraná najmä na získanie finančných zdrojov na zabezpečenie prevádzky a údržby už existujúceho prístrojového parku ale pozornosť bude venovaná aj jeho ďalšej modernizácii, prípadne rozšíreniu.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Asistencia substrátu v katalytickom mechanizme O-GlcNAc transferázy objavená pomocou QM/MM štúdia (Tvaroška, Kozmon)
Sacharidy sú dôležité pre rôzne aspekty aktivity proteínov, ako je nadobudnutie správnej trojrozmernej štruktúry alebo ich lokalizácia v bunke. Ukazuje sa, že nesprávna glykozylácia proteínov súvisí s mnohými chorobami, ako sú napríklad cukrovka, rakovina, zápalové a neurodegeneratívne ochorenia. Enzým, nazývaný OGT je zodpovený za pripojenie sacharidu *N*-acetylglukózamínu k proteínom a detailné porozumenie tohoto mechanizmu môže viesť k cielenému vylepšeniu týchto chorobných stavov. Mechanizmus, ktorým OGT inštaluje *N*-acetylglukózamín na proteíny, bol študovaný pomocou počítačového modelovania, kombinácie kvantovo-mechanických a molekulovo-mechanických metód. Takýto postup umožnil opísať reakčný mechanizmus, v ktorom sacharid sám asistuje v reakcii a ktorý nebol doteraz pozorovaný u enzýmov tohoto typu. Získané výsledky môžu poskytnúť údaje pre dizajn nových liečív cielených na choroby súvisiace s aktivitou OGT. Projekty VEGA 2/0101/11 a 2/0161/12 **(Chemický ústav SAV).**

TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Substrate-assisted catalytic mechanism of *O*-GlcNAc transferase discovered by quantum mechanics/molecular mechanics investigation. In *Journal of the American Chemical Society*, 2012, vol. 134, p. 15563-15571. (9.907 - IF2011). ISSN 0002-7863. (ADCA)

2.3.2. Aplikačný typ

Nová metóda pre štrukturálno-mikroskopické štúdium koreňov (Zelko, Lux, Kollárová, Lišková)
Vypracovanie metódy na rezanie a fluorescenčné farbenie tenkých koreňov, ktorá významne prispieva k zvýšeniu efektivity a presnosti štrukturálnych štúdií, ktoré sú jedným z pilierov projektu zameraného na štúdium fytofortifikácie plodín a fytoremediácie kontaminovaného prostredia, kde jedným z rozhodujúcich faktorov je príjem látok koreňmi rastlín súvisiaci so štruktúrou koreňa. Projekt APVV-0140-10 **(Chemický ústav SAV).**

ZELKO, Ivan - LUX, Alexander - STERCKEMAN, Thibault - MARTINKA, Michal - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. An easy method for cutting and fluorescent staining of thin roots. In *Annals of Botany*, 2012, vol. 110, p. 475-478. (4.030 - IF2011). ISSN 0305-7364. (ADCA)

2.3.3. Medzinárodné vedecké projekty

Farmakologický účinok glykokonjugátu z liečivej rastliny *Lythrum salicaria* (Capek)

Chemická analýza *Lythrum* glykokonjugátu odhalila dominanciu karbohydrátov, pričom obsah fenolických látok bol výrazne menší. Štrukturálna analýza glykokonjugátu potvrdila prítomnosť polysacharidov ramnogalakturonánu (dominantná zložka) a arabinogalaktánu. Výsledky farmakologických testov na antitusickú aktivitu poukázali na schopnosť konjugátu potlačiť experimentálny kašľový reflex, ale nepotvrdili jeho dávkovú závislosť. Celková antitusická aktivita konjugátu bola nižšia ako aktivity purifikovaných polysacharidov z iných liečivých rastlín, čo indikuje skutočnosť, že fenolická zložka nemá vplyv na antitusickú aktivitu. Výsledky testov na bronchodilatačnú aktivitu ukázali, že bronchodilatačný efekt konjugátu bol vyšší ako vykazuje salbutamol, bronchodilatačný preparát používaný v klinickej praxi. Za tento výrazný bronchodilatačný účinok je pravdepodobne zodpovedná fenolická zložka tohto prírodného preparátu. Projekt APVV SK-PL-0045-09 **(Chemický ústav SAV).**

ŠUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - GANCARZ, Roman. Antitussive and bronchodilatory effects of *Lythrum salicaria* polysaccharide–polyphenolic conjugate. In *International Journal of Biological Macromolecules*, 2012, vol. 51, p. 794-799. (2.453 - IF2011). ISSN 0141-8130. (ADCA)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2012/ doplnky z r. 2011	B Počet v r. 2012/ doplnky z r. 2011	C Počet v r. 2012/ doplnky z r. 2011
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	**5 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**	**0 / 0**	**0 / 0**
9. Vedecké a odborné práce v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, BDDB)	**59 / 0**	**0 / 0**	**0 / 0**
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**10 / 1**	**0 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	**5 / 0**	**0 / 0**	**0 / 0**
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	**14 / 0**	**0 / 0**	**0 / 0**

12. Vydané periodiká evidované v Current Contents	**1**	**0**	**0**
13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**2/0**	**0/0**	**0/0**
15. Vedecké práce uverejnené na internete (GHG)	**0 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**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. 2011/ doplnky z r. 2010**	**B** **Počet v r. 2011/ doplnky z r. 2010**
Citácie vo WOS (1.1, 2.1)	1711 / 0	1 / 0
Citácie v SCOPUS (1.2, 2.2)	128 / 0	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	1 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	38 / 0	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

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

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	99
Prednášky a vývesky na domácich vedeckých podujatiach	16

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BERTÓK, Tomáš - GEMEINER, Peter - TKÁČ, Ján. Vysokocitlivé biorozpoznávanie pomocou lektínových biosenzorov a ich biomedicínske aplikácie. In *ACP 2012 - XII. konferencia s medzinárodnou účasťou: Súčasný stav a perspektívy analytickej chémie v praxi, 8.-11.5.2012, Bratislava*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *Chemické listy*. Vol. 106 (S), (2012), p. s152. ISSN 0009-2770. (AFFA)

BERTOK, Tomas - MISLOVICOVA, Danica - GEMEINER, Peter - TKAC, Jan. Electroanalytical methods for the glycoconjugates detection in medical diagnostics. In *XII. Pracovní setkání fyzikálních chemiků a elektrochemiků (12th Workshop of Physical Chemists and Electrochemists), 30.-31.5.2012, Brno, Česká republika*. (vyžiadaná prednáška - Ing. Bertók)
Published: In *Sborník příspěvků: XII. Pracovní setkání fyzikálních chemiků a elektrochemiků (12th Workshop of Physical Chemists and Electrochemists), 30.-31.5.2012, Brno, Česká republika*. Brno: Mendelova univerzita v Brně, 2012. s. 21-22. ISBN 978-80-7375-618-5. (AFA)

BIELY, Peter. Diversity of substrate recognition by microbial endo-β-1,4-xylanases. In *BIT's 3rd Symposium on Enzymes & Biocatalysis, Sub-conference 4: BIT's 3rd Annual World DNA and Genome Day: Milestones of the Great Bioindustry, 25-28 April 2012, Xi'an, China*. (vyžiadaná prednáška - Dr. Biely)
Abstract published: In *Proceedings: BIT's 3rd Symposium on Enzymes & Biocatalysis, Sub-conference 4, Xi'an, China, April 25-28, 2012*. Dalian, China: BIT Congress Inc., 2012, p. 111. (AFE)

BIELY, Peter - RYABOVA, Olena - VRŠANSKÁ, Mária - ŠUCHOVÁ, Katarína. Unique xylanolytic system of xylose-fermenting yeast *Pichia stipitis*. In *13th International Congress on Yeasts (ICY2012), 26-30 August 2012, Madison, Wisconsin, USA*. (vyžiadaná prednáška - Dr. Biely)
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2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

HRICOVÍNI, Miloš. Štruktúra a medzimolekulové interakcie heparínových sacharidov s proteínmi. In *III. Seminár odbornej skupiny Medicínska chémia, 7. september, 2012, PriF UK, Bratislava*.

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BIELY, Peter. Microbial hemicellulolytic enzymes. In *Seminar at the Department of Agricultural and Food Sciences: Biotechnology, Faculty of Applied Sciences, Cape Peninsula University of Technology, Bellville, Cape Town, South Africa, 10 February 2012*. (vyžiadaná prednáška - Dr. Biely)

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KATRLÍK, Jaroslav. Presentation of Institute of Chemistry of Slovak Academy of Sciences. In *Seminar at the Institute for the Application of Nuclear Energy (INEP), University of Belgrade, Serbia, 13 November 2012*. (vyžiadaná prednáška - Dr. Katrlík)

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 2012

2.7.1. Vynálezy, na ktoré bol udelený patent

Na Slovensku - počet patentov: 2

Číslo PV: 288046
Mená autorov: Farkaš Vladimír; Kosík Ondřej
Názov vynálezu: Spôsob simultánneho stanovenia aktivity enzýmov typu transglykozyláz.
Majiteľ / spolumajiteľ: Chemický ústav SAV

Číslo PV: 288023
Mená autorov: Farkaš Vladimír; Nemčovič Marek; Jakubíková Lucia; Šubíková Valéria; Drimal Jozef; Janitor Anton; Kunca Andrej; Leontovyč Roman
Názov vynálezu: Kmene mikroorganizmov Trichoderma atroviride a Trichoderma harzanium a prostriedok na ochranu rastlín, ktorý ich obsahuje.
Majiteľ / spolumajiteľ: Chemický ústav SAV

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2012 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Iné informácie k vedeckej činnosti.

Z celkového počtu 70 (vlani 61) vedeckých prác v časopisoch je 59 (84 %) publikovaných v periodikách evidovaných v Current Contents, pričom na 26 % z týchto prác sú autormi len pracovníci ústavu, 36 % je publikovaných v spolupráci s domácimi a 38 % so zahraničnými spoluautormi.

Impakt faktor periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.286 do 10.774, pričom jeho priemerná hodnota je 2.590, čo spolu s úhrnným počtom 1891 citácií (z toho 1840 vo WOS a SCOPUS) možno považovať za cenný kvalitatívny ukazovateľ.

V porovnaní s minulým rokom vzrástol počet karentovaných publikácií o jednu (58 versus 59) a počet nekarentovaných publikácií o 8 (3 vesus 11). Stagnáciu v počte CC publikácií do určitej miery spôsobila nadmerná administratívna záťaž mnohých vedeckých pracovníkov v súvislosti s

implementáciou 5 projektov OP ŠF a prípravou 2 ďalších, čo znížilo ich kapacitu na vedeckú prácu a publikačnú aktivitu. Priemerný impakt faktor časopisov mierne poklesol (o 0.197), avšak jeho hodnota (2.590) stále presahuje, s výnimkou jednej (u ktorej je nižší len o 0.267), hodnoty medián impakt faktora pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.341 pre Chemistry Organic, 2.857 pre Biochemistry & Molecular Biology, 1.289 pre Polymer Science, 2.398 pre Microbiology, 2.033 pre Biotechnology & Applied Microbiology a 1.997 pre Chemistry Physical). Celkový počet citácií oproti vlaňajšku ostal na tej istej úrovni (1879 versus 1891). Počet citácií vo WOS a SCOPUS mierne poklesol (1840 versus 1883).

Na tomto mieste treba vysloviť uznanie Predsedníctvu SAV a pracovníčkam Ústrednej knižnice SAV, že sa aj v roku 2012 podarilo prostredníctvom Centra vedecko-technických informácií SR zabezpečiť prístup do elektronických databáz Thomson ISI (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (SciVerse-ScienceDirect, Wiley Online Library, Blackwell Synergy, SpringerLink, Knovel, Reaxys a iné), čo značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Aj keď o užitočnosti časovo obmedzených prístupov do plnotextových databáz niektorých vydavateľstiev, sprostredkovaných Ústrednou knižnicou SAV niet 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 zahraničných 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 56 projektov - z toho 35 domácich (VEGA - 22, APVV - 7, OP ŠF - 5, Centrá excelentnosti SAV - 1) a 21 zahraničných (4 projekty 7. RP, 7 projektov COST, 2 projekty ESF, 2 projekty v rámci medzivládnych dohôd o VTS, 2 bilaterálne projekty nadväzujúce na MAD a 4 iné projekty financované zo zahraničných zdrojov) a čerpané finančné prostriedky predstavujú sumu cca 436.3 tisíc €, z čoho je cca 111.1 tisíc € zo zahraničia, 286.9 tisíc € z domácich projektov a 38.3 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 2012 sa výrazne čerpali finančné prostriedky z OP ŠF (cca 6.56 mil. €).

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 2012

Forma	Počet k 31.12.2012				Počet ukončených doktorantúr v r. 2012					
	Doktorandi				Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Interná zo zdrojov SAV	4	20	0	5	0	1	0	1	0	0
Interná z iných zdrojov	1	0	1	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0
Spolu	5	20	1	5	0	1	0	1	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	1	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2012 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
Alexandra Poturnayová	interné štúdium hradené z prostriedkov SAV	10 / 2008	9 / 2012	4.1.22 biochémia	Ing. Maja Šnejdárková CSc., Ústav biochémie a genetiky živočíchov SAV	Fakulta chemickej a potravinárskej technológie STU

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

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

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)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta UK)	Ing. Eva Hrabárová, PhD. (IIb)
doc. Ing. Vladimír Farkaš, DrSc. (mikrobiológia)	doc. Ing. Ladislav Petruš, DrSc. (Prírodovedecká fakulta UK)	RNDr. Karin Kollárová, PhD. (IIa)
Ing. Peter Gemeiner, DrSc. (biotechnológie)		Mgr. Jana Šefčovičová, PhD. (IIa)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Eva Hrabárová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		Bc. Peter Kis (Bc., Fakulta chemickej a potravinárskej technológie STU)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		
Ing. Vladimír Mastihuba, PhD. (chémia a technológia poživatín)		
Ing. Ema Paulovičová, CSc. (mikrobiológia)		
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		

Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		
RNDr. Mária Vršanská, PhD. (biochémia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2012

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	0	3	0
Celkový počet hodín v r. 2012	49	0	128	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**	5
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	5
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	16
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	25
5.	**Počet oponovaných dizertačných a habilitačných prác**	13
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	7
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	3
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	8
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	3

3.6. Iné dôležité informácie k pedagogickej činnosti

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

V priebehu roka 2012 sa na CHÚ SAV celkom školilo 26 doktorandov denného štúdia (z toho jeden štúdium úspešne ukončil obhajobou), z toho 6 novoprijatých. Dúfame, že tento trend bude v budúcnosti pokračovať a počty doktorandov na ústave budú stabilizované a obsadia sa všetky pridelené doktorandské miesta. Najväčší záujem zo strany študentov bol o odbor biotechnológie a biochémia. Dlhodobo menší záujem zo strany študentov je o ostatné odbory

(fyzikálna chémia, mikrobiológia, makromolekulová chémia a organická chémia), napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov a týchto si prioritne podržia na doktorandské štúdium jednotlivé fakulty.

V roku 2012 úspešne obhájila doktorandskú dizertačnú prácu jedna doktorandka. Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2012, sa dá predpokladať, že v roku 2013 by mali doktorandskú dizertačnú prácu obhajovať minimálne 3 doktorandi.

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

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2012 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

40. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 90 účastníkov, 08.05.-11.05.2012

2. EAST-NMR stretnutie mladých výskumníkov, Bratislava, 48 účastníkov, 16.05.-18.05.2012

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2013 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

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	1	3	3

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. Marek Bučko, PhD.

Management Committee COST Action CM0701 - Working Group 1 (funkcia: národný zástupca)

Ing. Peter Gemeiner, DrSc.

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)
Management Committee COST Action CM0701 (funkcia: národný zástupca)
Management Committee COST CMST Action CM1101 (funkcia: národný zástupca)

Ing. Ján Hirsch, DrSc.

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

Ing. Miloš Hricovíni, PhD.

American Chemical Society (funkcia: člen)

Ing. Zdena Hromádková, PhD.

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

RNDr. Daniela Kákoniová, PhD.

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

Ing. Jaroslav Katrlík, PhD.

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

Ing. Miroslav Kóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

RNDr. Desana Lišková, PhD.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)
International Association of Plant Tissue Cultures - Biotechnology (IAPTC-B) (funkcia: člen)
Management Committee COST FA0905 - Mineral Improved Crop Production for Healthy Food and Feed (funkcia: národná zástupkyňa)

prof. RNDr. Alexander Lux, CSc.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)
Management Committee COST FA0905 - Mineral Improved Crop Production for Healthy Food and Feed (funkcia: národný zástupca)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)

RNDr. Mária Matulová, PhD.

American Chemical Society (funkcia: člen)
Steering Committee of the ESF RNP in PESC „Multidisciplinary Frontiers of Magnetic Resonance" (EMAR) (funkcia: člen)

RNDr. Ján Mucha, CSc.

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

Ing. Vladimír Pätoprstý, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

COST Chemistry and Molecular Sciences and Technologies (CMST) Domain Committee (funkcia: reprezentant Slovenska)
Česká společnost chemická (funkcia: čestný člen)

Ing. Elena Sláviková, PhD.

Komisia pre kvasinky Československej spoločnosti mikrobiologickej (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

International Steering Committee of the International Consortium on Anti-Virals (ISC ICAV) (funkcia: člen)
Management Committee COST CMST Action CM1102 (funkcia: národný zástupca)
Management Committee COST CMST Action CM1106 (funkcia: národný zástupca)

RNDr. Mária Vršanská, PhD.

Management Committee COST Action 928 a COST Action FP0602 (funkcia: národná zástupkyňa)

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	Croatian Science Foundation	1
	FP7-ICT-2011-8 Obj.3.2 - ICT	6
	FP7-PEOPLE-2012-IEF-IIF-IOF - MAT ENG	18
Kóš Miroslav	Grantová agentúra ČR	1
Mastihuba Vladimír	APVV/Bilaterálna výzva SK-AT	1
	APVV/Bilaterálna výzva SK-PT	1
Petruš Ladislav	COST CMST a TD	24
	KORANET	8
Tkáč Ján	South African Medical Research Council	1

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

Okrem participácie na spoločných vedeckých projektoch umožňuje MVTS pracovníkom ústavu najmä dofinancovanie projektov 7. RP a iných projektov EÚ, využitie špičkovej prístrojovej techniky (analytickej, výpočtovej) v zahraničí ako aj prístup k potrebným doma chýbajúcim interdisciplinárnym metodikám, nedostupnej literatúre (knihy, patenty) a materiálnemu vybaveniu (chemikálie, laboratórne zariadenia a pomôcky, ...). V rámci uskutočnenej mobility získali pracovníci ústavu veľmi cenné experimentálne skúsenosti a teoretické poznatky z najmodernejších metodík využívaných v súčasnosti pri riešení vedeckých problémov.

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

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

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

V rámci MVTS (COST Action FA 0905) vznikla spolupráca s pracoviskom Institut National Polytechnique de Lorraine, Nancy, France (Dr. Tibault Sterckeman) a ISTO, UMR 7327 – CNRS-Université d'Orléans-BRGM (Prof. Mikael Motelica-Heino). Boli podané 2 bilaterálne projekty: APVV SK-FR-0020-11 „Vplyv znečistenia pôdy na štruktúru a funkciu koreňa rastlín“ (Effect of soil contaminants on root structure and function) (projekt bol už schválený) a „Vplyv pôdnych kontaminantov na korene tolerantných a netolerantných rastlín“ (Effect of soil contaminants on roots of tolerant and non-tolerant plants).

V rámci MVTS (COST CM1101) sa v období 15.5.2012–15.6.2012 pod vedením Dr. Katrlíka a Dr. Gemeinera uskutočnil vedecko-výskumný pobyt Dr. Georgija Yordanova z Faculty of Chemistry, University of Sofia, Bulharsko. Pobyt bol podporený aj projektom "Investigation of nanoparticle-protein interaction by SPR technique", BG051PO001-3.3.05-0001 „Science and business" bulharského Ministerstva školstva a vedy. Cieľom tohoto pobytu bolo skúmanie interakcie medzi plazmovými proteínmi a koloidnými polymérnymi nosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR).

V období 4.6.2012–14.7.2012 sa pod vedením Dr. Katrlíka a Dr. Gemeinera uskutočnil vedecko-výskumný pobyt Mgr. Gianlucu Accogliho z Faculty of Veterinary Medicine University of Bari "Aldo Moro", Taliansko. Pobyt s názvom "Lectin microarray techniques" bol zameraný na vývoj a testovanie metódy sledovania špecifickej expresie glykokonjugátov ako markerov funkčného stavu systému na celých bunkách, v závislosti od rôznych fáz pohlavného cyklu, zrenia a rôzneho materiálu (folikuly, vajíčka) rôznych druhov živočíchov (kone, prasatá).

V období 2.12.2012–9.12.2012 sa v rámci bilaterálneho projektu APVV SK-SRB-0041-11 „Lektínové biočipy pre charakterizáciu glykánových štruktúr proteínov IGF systému ako nástroj pre výskum, diagnostiku a terapiu kolorektálneho karcinómu" pod vedením Dr. Katrlíka a Mgr. Šedivej uskutočnil vedecko-výskumný pobyt Mgr. Gorana Miljuša a Mgr. Miloša Šunderića. Počas pobytu sa uskutočnili merania glykozylácie vzoriek microarray systémom. V rámci tohoto APVV projektu sa v dňoch 6.–13.11.2012 uskutočnila aj mobilita Dr. Katrlíka a Mgr. Šedivej na pracovisku parnera (Institute for the Application of Nuclear Energy (INEP), University of Belgrade, Belgrade, Srbsko) u Prof. Olgice Nedič.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Vedná politika

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria obsah domácich i zahraničných projektov riešených na pracovisku. Pozornosť sa venuje aj cielenému výskumu realizovanému prostredníctvom hospodárskych zmlúv, kontraktov a plnením dohodnutých záväzkov v rámci zmluvnej spolupráce. Značná časť riešiteľskej kapacity ústavu sa venuje vypracovávaniu projektov a grantových žiadostí a to nielen v rámci domácej VEGA, APVV, Centier excelentnosti a spolupráce s priemyselnou sférou ale aj v rámci MVTS a to najmä 7. rámcového programu EÚ a vedeckých programov COST, NATO, ESF, bilaterálnych MAD, Európskeho sociálneho fondu a iných fondov a nadácií na podporu vedeckého výskumu. V rokoch 2008–2012 pribudla ešte významná účasť na nových výzvach OP ŠF OPVaV 2.1. a 4.1.

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

Základnými dokumentmi pracoviska sú: Zriaďovacia listina Chemického ústavu SAV č. 951/0214/2003 zo dňa 11. decembra 2003 a Dodatok č. 1 (z 19. 12. 2008) k Zriaďovacej listine Chemického ústavu SAV č. 448/G/12/2008 (ktorým sa s účinnosťou od 1. 1. 2009 mení forma hospodárenia z rozpočtovej na príspevkovú), Pracovný poriadok, Organizačný poriadok, Platový poriadok, Bezpečnostné predpisy, Traumatologický plán, Pokyny pre kontrolnú činnosť, Dohoda medzi ústavmi SAV 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 a 2009 novelizované relevantné predpisy pre práce s nebezpečnými chemickými faktormi, biologickým materiálom, GMO a pre

zaobchádzanie so zdrojmi ionizujúceho žiarenia, aplikované na pracovné podmienky v CHÚ SAV a získali príslušné oprávnenia od kompetentných orgánov. V súčasnosti sa ústav uchádza o získanie certifikátov ISO pre laboratórium vody a NMR laboratórium.

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

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

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Jesseniova lekárska fakulta UK v Martine
Druh spolupráce (spoločné pracovisko alebo iné): Spolupráca na riešení spoločných projektov - Ústav farmakológie
Začiatok spolupráce: 2008
Zameranie: Štúdium antitusických a bronchodilatačných účinkov prírodných polysacharidov a glykokonjugátov izolovaných z poľnohospodárskych odpadov, liečivých rastlín a invazívnych rastlín, resp. produkovaných sladkovodnými riasami alebo cyanobaktériami.
Zhodnotenie: Výsledkom spolupráce sú 4 publikácie a podanie spoločného APVV projektu.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Imunologický ústav
Začiatok spolupráce: 2009
Zameranie: Serodiagnostika markerov zápalu vo vzťahu ku koronárnym a intersticiálnym ochoreniam.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie, 2 prednášky a 1 poster.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Oddelenie laboratórnej medicíny, Detská fakultná nemocnica s poliklinikou, Bratislava
Začiatok spolupráce: 2010
Zameranie: Diagnostika zriedkavých vrodených metabolických porúch.
Zhodnotenie: Výsledkom spolupráce sú 3 prednášky a 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Univerzitná nemocnica, Bratislava, Nemocnica Staré Mesto, Oddelenie klinickej imunológie a alergológie
Začiatok spolupráce: 2007
Zameranie: Diferenciálna diagnostika vaginálnych kandidóz - detekcia sérových antikandidových izotypových protilátok.
Zhodnotenie: Výsledkom spolupráce je 1 poster.

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

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra biochémie
Začiatok spolupráce: 2006
Zameranie: Syntéza mykobakteriálnych transglykozylázových substrátov a inhibítorov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra mikrobiológie a virológie
Začiatok spolupráce: 2007
Zameranie: Úloha CR3-RP v adherencii kvasinky Candida albicans a jej imunologické vlastnosti.
Zhodnotenie: Výsledkom spolupráce je 1 poster.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov VEGA, APVV a COST - Katedra fyziológie rastlín
Začiatok spolupráce: 2007
Zameranie: Využitie rastlín pre dekontamináciu životného prostredia od toxických kovov a obohatenie poľnohospodárskych rastlín o dôležité minerálne látky a štúdium biologickej aktivity galaktoglukomanánových oligosacharidov vo vývinových procesoch a ochrane rastlín.
Zhodnotenie: Výsledkom spolupráce sú 3 publikácie a 2 príspevky na vedeckých podujatiach.

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 UK
Druh spolupráce (spoločné pracovisko alebo iné): Spoluúčasť na riešení projektov ŠF EÚ - Katedra organickej chémie
Začiatok spolupráce: 2008
Zameranie: Dobudovanie Laboratórií biokatalýzy a organickej syntézy.
Zhodnotenie: Vybavenie CHÚ prístrojovou technikou.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR
Začiatok spolupráce: 2007
Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Zhodnotenie: 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): Neformálna spolupráca - Katedra biotechnológie
Začiatok spolupráce: 2011
Zameranie: Výskum biologicky aktívnych/funkčných necelulózových polysacharidov izolovaných z rastlín a agro-industriálnych a lesných odpadov.
Zhodnotenie: Príprava spoločného projektu VEGA.

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 chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biochémie, výživy a ochrany zdravia, Oddelenie výživy a hodnotenia potravín
Začiatok spolupráce: 2011
Zameranie: Analýza nutraceutík a polysacharidových zložiek cereálii.
Zhodnotenie: Podanie spoločného APVV projektu.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biochémie, výživy a ochrany zdravia, Oddelenie výživy a hodnotenia potravín
Začiatok spolupráce: 2010
Zameranie: Biosenzory pre stanovenie sacharidov
Zhodnotenie: Výsledkom spolupráce je 1 odoslaná 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 biochemickej technológie
Začiatok spolupráce: 2009
Zameranie: Vplyv stresu na pigmentotvorné kvasinky. Skúmanie prípravy nových typov obilnín a cerálnych produktov obohatených o polynenasýtené mastné kyseliny a pigmenty.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prednáška.

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: Štúdium enzýmových transglykozylačných reakcií.
Zhodnotenie: Výsledkom spolupráce je vedenie 1 diplomovej práce.

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 a vlastnosti nových derivátov chirálnych indolizidínov.
Zhodnotenie: Výsledkom spolupráce je vypracovanie metodiky enzýmovej deacetylácie a 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov VEGA a APVV - Ústav biotechnológie a potravinárstva, Oddelenie biochemickej technológie
Začiatok spolupráce: 2006
Zameranie: Techniky imobilizácie pre vývoj robustných oxido-redukčných biokatalyzátorov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia v tlači.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko
Začiatok spolupráce: 1995
Zameranie: Združené laboratórium Fourier Transform Infrared Spectroscopy
Zhodnotenie: Združené laboratórium Fourier Transform Infrared Spectroscopy, založené v roku 1995, je spoločným pracoviskom Ústavu anorganickej chémie SAV, Chemického ústavu SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Nový prístroj NICOLET 6700, zakúpený v roku 2008 (CHÚ SAV prispel sumou 16543 €), je inštalovaný v spoločnom laboratóriu FTIR spektroskopie v priestoroch CHÚ SAV a slúži pre potreby základného výskumu v rámci projektov uvedených inštitúcií, na pedagogické účely ako aj základné servisné merania. V roku 2010 bol spektrometer doplnený o ďalšie príslušenstvo pre meranie technikou difúznej reflektancie v kontrolovanej atmosfére v strednej IČ oblasti (z prostriedkov projektu MACHINA). Toto umožňuje meranie vzoriek do teploty 900 °C za normálneho tlaku a kontrolovanej atmosféry s možnosťou merania v inertnom plyne. Príslušenstvo sa využíva pri meraní pevných a práškových vzoriek anorganického aj organického charakteru. Spektrometer bol tiež doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť, ktoré umožňujú meranie IČ spektier v spektrálnom rozsahu 700–50 cm^{-1}. Chemický ústav SAV sa v roku 2012 podieľal na výstupoch združeného pracoviska 5 pôvodnými vedeckými prácami, 4 zborníkovými prácami a 9 príspevkami na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR
Začiatok spolupráce: 2007
Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Zhodnotenie: Dňa 11. mája 2007 bol podpísaný dokument "Zmluva a štatút o združení právnických osôb s názvom Národné centrum nukleárnej magnetickej rezonancie na Slovensku" (NC NMR). Zmluvu podpísali štatutári zakladajúcich organizácií: FCHPT, STU v Bratislave, FEI TU v Košiciach, PriF UK v Bratislave, UPJŠ v Košiciach, Chemický ústav SAV a Ústav merania SAV v Bratislave. Národné centrum NMR (NC NMR) bolo vytvorené za účelom zabezpečovania potrieb NMR služieb najmä v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami na Slovensku, zvyšovania vedomostného potenciálu v oblasti NMR na univerzitách, pracoviskách SAV a výskumných ústavoch formou výučby na všetkých stupňoch vysokoškolského štúdia, organizovania seminárov, kurzov, letných škôl a pod., mobilít a stáží domácich i zahraničných študentov a vedeckých pracovníkov, expertíznej a poradenskej činnosti, a prípravy odbornej literatúry. Sieť NC NMR tvoria spolupracujúce centrá NMR lokalizované v inštitúciách,

ktoré uzavreli zmluvu o združení. Na Chemickom ústave SAV je lokalizované *Centrum pre štúdium dynamiky a interakcií biomolekúl*, ktoré bolo v roku 2009 vybavené dvomi špičkovými NMR spektrometrami (600 MHz a 400 MHz).

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR
Začiatok spolupráce: 2007
Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Zhodnotenie: Viď informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR s FCHPT STU.

Názov univerzity/vysokej školy a fakulty: Fakulta priemyselných technológií TnUAD v Púchove
Druh spolupráce (spoločné pracovisko alebo iné): Spoluúčasť na riešení projektu VEGA - Katedra chemických technológií a environmentu
Začiatok spolupráce: 2007
Zameranie: Príprava prírodných a cielene hydrofobizovaných polysacharidov s antioxidačnými a asociatívnymi vlastnosťami.
Zhodnotenie: Výsledkom spolupráce sú 2 zborníkové práce a 5 postrov.

Názov univerzity/vysokej školy a fakulty: Fakulta biotechnológie a potravinárstva SPU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra hodnotenia a spracovania živočíšnych produktov
Začiatok spolupráce: 2009
Zameranie: Štúdium enzýmových transglykozylačných reakcií.
Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta biotechnológie a potravinárstva SPU
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko
Začiatok spolupráce: 2009
Zameranie: Kvalita surovín a potravín
Zhodnotenie: Dňa 2. septembra 2009 Chemický ústav SAV a Fakulta biotechnológie a potravinárstva SPU v Nitre podpísali dokument "Dohoda o vytvorení spoločného pracoviska metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu". Cieľom spoločného pracoviska, ktoré je umiestnené v priestoroch CHÚ SAV v Bratislave a Katedry biochémie a biotechnológie FBP SPU v Nitre, je zabezpečenie, príprava a realizácia domácich a zahraničných vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky. Ďalším cieľom je výchova odborných a vedeckých pracovníkov v rámci inžinierskeho a doktorandského štúdia a možnosti poskytovania študijných pobytov pre vedecko-výskumných a pedagogických pracovníkov. V roku 2011 spoločné pracovisko začalo implementovať projekt ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“, v rámci ktorého by do polovice roka 2013 malo byť vybavené unikátnou prístrojovou technikou.

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 prihláška patentu.

Názov univerzity/vysokej školy a fakulty: Vysoká škola chemicko-technologická, Praha
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta potravinářské a biochemické technologie, Ústav chemie a technologie sacharidů
Začiatok spolupráce: 2011
Zameranie: Polysacharidy rias a húb.
Zhodnotenie: Výsledkom spolupráce je 1 odoslaná publikácia.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií
Začiatok spolupráce: 2006
Zameranie: a) Vplyv stresu na pigmentotvorné kvasinky; b) Mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z potravinárskych výrob; c) Identifikácia kvasiniek molekulárno-biologickou metódou.
Zhodnotenie: Výsledkom spolupráce sú: a) 1 poster; b) 1 publikácia a 1 obhájená bakalárska práca; c) 1 publikácie a 1 poster.

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 polysacharidových konjugátov.
Zhodnotenie: Experimentálne vakcinácie polysacharidovymi konjugámi, odbery krvi a imunokompetentných orgánov. Podaný spoločný projekt APVV.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra organické chemie
Začiatok spolupráce: 2010
Zameranie: Syntéza a cytotoxicita niektorých D-manózových klik-konjugátov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta, Masarykova univerzita, Brno, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Národní centrum pro výzkum biomolekul
Začiatok spolupráce: 2011
Zameranie: Štúdium katalytického mechanizmu glykozyltransferáz.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prednáška.

Názov univerzity/vysokej školy a fakulty: Chalmers University of Technology, Göteborg, Sweden
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Chemical and Biological Engineering
Začiatok spolupráce: 1998
Zameranie: Stanovenie štruktúry sacharidových derivátov X-ray technikami.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia v tlači.

Názov univerzity/vysokej školy a fakulty: Abo Akademi University, Finland
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Laboratory of Organic Chemistry

Začiatok spolupráce: 2006
Zameranie: Hodnotenie imunostimulačných aktivít zlúčenín obsahujúcich D-manózu a mimikujúcich manány bunkových stien Candida albicans.
Zhodnotenie: Výsledkom spolupráce je 1 uverejnená publikácia.

Názov univerzity/vysokej školy a fakulty: Wroclaw University of Technology, Poland
Druh spolupráce (spoločné pracovisko alebo iné): Bilaterálny projekt
Začiatok spolupráce: 2010
Zameranie: Fenolické glykokonjugáty liečivých rastlín a ich biologická aktivita
Zhodnotenie: Výsledkom spolupráce sú 3 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 publikácia.

Názov univerzity/vysokej školy a fakulty: University of Adelaide, Glen Osmond, Australia
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - School of Agriculture, Food and Wine, Australian Centre for Plant Functional Genomics
Začiatok spolupráce: 1994
Zameranie: Štúdium bunkových stien rastlín.
Zhodnotenie: Výsledkom spolupráce je 1 postdoktorandský pobyt a 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Universität für Bodenkultur Wien, Institüt für Chemie, Österreich
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca
Začiatok spolupráce: 2006
Zameranie: Štúdium inhibítorov alfa-manozidáz.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Université Blaise Pascal, UFR Sciences et Technologiques, Aubiere Cedex, Francúzsko
Druh spolupráce (spoločné pracovisko alebo iné): Bilaterálny SK-FR projekt - Laboratoire ICCF
Začiatok spolupráce: 2011
Zameranie: Štúdium metabolizmu baktérií izolovaných z oblakov.
Zhodnotenie: Výsledkom spolupráce sú 2 prednášky.

Názov univerzity/vysokej školy a fakulty: Nancy Université, INRA, Vandoeuvre-les-Nancy Cedex, Francúzsko
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Laboratoire Sols et Environnement
Začiatok spolupráce: 2011
Zameranie: Vplyv znečistenia pôdy na štruktúru a funkciu koreňa rastlín.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie.

Názov univerzity/vysokej školy a fakulty: Centrum výskumu živočíšnej výroby, Nitra
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav včelárstva, Liptovský Hrádok
Začiatok spolupráce: 2005
Zameranie: Štúdium expresie antimikrobiálneho peptidu defenzínu vo včelstvách

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

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

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

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

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Aplikácia a charakterizácia xylanáz: Spôsob účinku G30 xylanáz (Application and characterization of xylanases: Mode of action of G30 xylanases)
Partner(i): Novozymes A/S, Bagsvaerd, Denmark
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2009
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2013
Objem získaných prostriedkov v bežnom roku (€): 15000
Stručný opis výstupu/výsledku: Porovnávali sa katalytické vlastnosti bakteriálnych a fungálnych endoxylanáz rodiny GH30. Študoval sa tiež mechanizmus rozpoznávania substrátu u bakteriálnych enzýmov.
Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje.

Názov kontraktu: Biokonverzia xylánu z pšeničnej slamy (Bioconversion of wheat straw xylan)
Partner(i): Annikki GmbH, Graz, Austria
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2012
Objem získaných prostriedkov v bežnom roku (€): 7500
Stručný opis výstupu/výsledku: Študovali sa možnosti využitia xylanu izolovaného z pšeničnej slamy alkalickou extrakciou na prípravu kryštalickej xylózy a xylooligosacharidov.
Zhodnotenie: Ciele kontraktu boli splnené.

Názov kontraktu: Príprava Cholera Ol39 O-špecifického polysacharidu + core (bez toxického Lipidu A) (Production of Cholera Ol 39 O-specific polysaccharide + core (without toxic Lipid A))
Partner(i): Francisco Diaz Mitoma, VP Research, Health Sciences North, Sudbury, Ontario, Canada
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2012
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2012
Objem získaných prostriedkov v bežnom roku (€): 9000
Stručný opis výstupu/výsledku: Vykonaná bola niekoľkonásobná kultivácia mikroorganizmu Cholera O139. Z biomasy bol získaný a purifikovaný toxický LPS, ktorý bol následne detoxifikovaný a štrukturálne charakterizovaný. Chromatograficky čistý produkt bol poskytnutý zadavateľovi.
Zhodnotenie: Ciele kontraktu boli splnené.

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: AQUA Invest Slovakia, s.r.o., Bernolákovo; finančný prínos: 2070 €

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

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

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: CAFFÉ MONDO, s.r.o., Bratislava; finančný prínos: 498 €

Testovanie softvéru Mass Frontier 4.0 k interpretácii fragmentácie organických zlúčenín. Odberateľ: HighChem, Ltd., Bratislava

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: IAC Group (Slovakia) s.r.o., Bratislava; finančný prínos: 320 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: TAU-CHEM, s.r.o, Bratislava; finančný prínos: 350 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy, a.s., Bratislava; finančný prínos: 250 €

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. Zdena Hromádková, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen
RNDr. Mária Matulová, PhD.	Sektorová rada pre chémiu a farmáciu v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen

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

Názov expertízy: Národný štipendijný program pre výber zahraničných uchádzačov (2011-2013)
Adresát expertízy: SAIA, n.o.
Spracoval: Ing. Marek Bučko, PhD.
Stručný opis: člen Výberovej komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach
Adresát expertízy: Úrad pre verejné obstarávanie SR
Spracoval: Ing. Slavomír Bystrický, DrSc.
Stručný opis: Externý člen komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach
Adresát expertízy: Úrad pre verejné obstarávanie SR
Spracoval: Ing. Peter Gemeiner, DrSc.
Stručný opis: Externý člen komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach
Adresát expertízy: Úrad pre verejné obstarávanie SR
Spracoval: Ing. Miloš Hricovíni, PhD.
Stručný opis: Externý člen komisie

Názov expertízy: Komisia pre rozhodovanie v konaní o námietkach
Adresát expertízy: Úrad pre verejné obstarávanie SR
Spracoval: RNDr. Mária Matulová, PhD.
Stručný opis: Externý člen komisie

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

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

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

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

– – – –

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Tomáš Bertók		PB	Lektínové biosenzory a biočipy pre medicínsku diagnostiku	Týždeň vedy a techniky na Slovensku 2012. Deň otvorených dverí CHÚ SAV	8.11.2012
RNDr. Peter Biely, DrSc.		PB	Krásy a zaujímavosti Juhoafrickej republiky očami slovenského vedca	Spoločnosť pre vedu a umenie	28.6.2012
RNDr. Peter Biely, DrSc.		TL	Postrehy zo sympózia Lignobiotech II 2012: Nová vlna záujmu o komplexné využitie rastlinnej hmoty	Správy SAV. Roč. 48, č. 11-12, (2012), s. 14-15. ISSN 0139-6307.	2012
RNDr. Peter Biely, DrSc.		TL	Sacharidy – kľúč k eliksíru mladosti?	Quark. Roč. XVIII, č. 2 (2012), s. 18-19. ISSN 1335-4000.	2012
RNDr. Zuzana Hricovíniová, PhD.		PB	Cukry nie sú len sladké	Týždeň vedy a techniky na Slovensku 2012. Deň otvorených dverí CHÚ SAV	8.11.2012
RNDr. Anna Kákošová, PhD.		PB	Rastlinné „Street art"	Týždeň vedy a techniky na Slovensku 2012. Deň otvorených dverí CHÚ SAV	8.11.2012
RNDr. Jaroslav Klaudiny, PhD.		PB	Ako sa včely bránia voči mikrobiálnym patogénom	Týždeň vedy a techniky na Slovensku 2012. Deň otvorených dverí CHÚ SAV	8.10.2012
RNDr. Karin Kollárová, PhD.		PB	Biologicky aktívne sacharidy v rastlinách	Gymnázium L. Sáru, Bratislava	7.2.2012
Mgr. Juraj Kóňa, PhD.		PB	Využitie počítačových metód na štúdium katalytického mechanizmu enzýmov a proteínov	Týždeň vedy a techniky na Slovensku 2012. Deň otvorených dverí CHÚ SAV	8.11.2012
Ing. Miroslav Kóš, DrSc.	SHOEBRIDGE, Gavin	RO	Sugars in medicines	Rozhlas a televízia Slovenska, Slovenský rozhlas, Rádio Slovakia International EN, relácia Reports: Society	28.2.2012
Ing. Vladimír Mastihuba, PhD.		PB	Biokatalýza v organickej syntéze	Gymnázium L. Sáru, Bratislava	14.2.2012
Ing. Vladimír Mastihuba, PhD.		PB	Príprava prírodných látok pomocou enzýmov	Týždeň vedy a techniky na Slovensku 2012. Deň otvorených dverí CHÚ SAV	8.11.2012
Ing. Mária Mastihubová, PhD.		PB	Aplikácia biokatalýzy v chémii sacharidov	Prírodovedecká fakulta UPJŠ, Košice	18.5.2012

Mgr. Ružena Pilišiová		PB	Príprava vakcín z imunologicky aktívnych polysacharidov bunkových stien kvasiniek	Gymnázium L. Sáru, Bratislava	24.1.2012
Ing. Eva Stratilová, PhD.		PB	Enzýmy a ich význam v životných procesoch rastlín	Gymnázium L. Sáru, Bratislava	6.3.2012
Ing. Ján Tkáč, DrSc.	ČUPKA, Milan	TL	Skúma cukor, ktorý si možno poradí s rakovinou i vírusmi	Pravda, Príloha denníka Pravda: Víkend (str. 16-18)	22.9.2012
Ing. Ján Tkáč, DrSc.	GUDIAK, Marek	TV	Prestížny grant pre slovenského chemika	TV Markíza, Televízne noviny o 19:00	16.8.2012
Ing. Ján Tkáč, DrSc.	HUCÁKOVÁ, Monika; KOÓŠ, Miroslav	TV	Slovenský vedec hľadá náhradu za antibiotiká	Rozhlas a televízia Slovenska, Relácia Správy STV o 19:00 na Jednotke	16.8.2012
Ing. Ján Tkáč, DrSc.	MAŠLEJOVÁ, Viera	TL	Úspešný vedec hľadá nové lieky: Chemický inžinier Ján Tkáč verí, že antibiotiká onedlho vymeníme za prírodné liečivá	Plus Jeden deň (str. 6)	17.8.2012
Ing. Ján Tkáč, DrSc.	VALOVIČ, Peter; KOÓŠ, Miroslav	RO	Slovenský vedec získal prestížny grant	Rozhlas a televízia Slovenska, Rádio Slovensko, Relácia Rádiožurnál o 18	19.8.2012
Ing. Ján Tkáč, DrSc.	VALOVIČ, Peter; KOÓŠ, Miroslav	RO	Výskum glykánov	Rozhlas a televízia Slovenska, Slovenský rozhlas, Rádio Slovensko, Relácia Správy	19.8.2012
Ing. Zuzana Zemková		PB	Vzťah štruktúry a funkcie rastlinných transglykozyláz	Gymnázium L. Sáru, Bratislava	6.3.2012

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	9	tlač	4	TV	2
rozhlas	3	internet	1	exkurzie	0
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
1. Konferencia Centra excelentnosti pre glykomiku "Súčasné a budúce úlohy CE pre glykomiku"	domáca	Bratislava	23.05.-23.05.2012	75
40. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	08.05.-11.05.2012	90
2. EAST-NMR stretnutie mladých výskumníkov	medzinárodná	Bratislava	16.05.-18.05.2012	48

9.3. Účasť na výstavách

Názov výstavy: Festival vedy - 6. ročník, Noc výskumníkov 2012
Miesto konania: Bratislava
Dátum: 28.9.2012
Zhodnotenie účasti: Chemický ústav SAV na výstave prezentovali doktorandi Ing. Jaroslav Filip, Ing. Andrea Schenkmayerová, Ing. Tomáš Bertók a Mgr. Anikó Illésová. Návštevníkov oboznámili nielen s témami, ktorými sa zaoberá Oddelenie glykobiotechnológie (biobatérie, glykokód, bioarómy) ale aj s tradičnými fermentáciami, či užitočnosťou geneticky modifikovaných baktérií. Pripravené boli aj popularizačné pokusy a odmeny za správne vyplnený vedomostný test zo získaných poznatkov.

Názov výstavy: Týždeň vedy a techniky na Slovensku: Prezentácia výsledkov činnosti centier excelentnosti výskumu
Miesto konania: Bratislava
Dátum: 8.11.2012
Zhodnotenie účasti: Na výstave bolo predstavené CE MACHINA. Pracovníci Chemického ústavu SAV formou posterovej prezentácie a ukážok rôznych nanomateriálov oboznámili účastníkov s výsledkami výskumu v rámci tohto centra.

Názov výstavy: 39. medzinárodná poľnohospodárska a potravinárska výstava AGROKOMPLEX 2012
Miesto konania: Nitra
Dátum: 23.8.2012
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.

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	4	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.

Open Glycoscience (funkcia: člen Editorial Advisory Board)

Ing. Zdena Hromádková, PhD.

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Kóóš, DrSc.

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

prof. RNDr. Alexander Lux, CSc.

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

Ing. Jozef Nahálka, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

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

Ing. Ján Tkáč, DrSc.

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

Ing. Igor Tvaroška, DrSc.

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

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Peter Biely, DrSc.

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

doc. Ing. Vladimír Farkaš, DrSc.

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

RNDr. Ján Gajdoš, PhD.

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

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)

Ing. Ján Hirsch, DrSc.

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

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť (funkcia: predseda odbornej skupiny)

Ing. Mária Mastihubová, PhD.

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

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

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

V rámci Týždňa vedy a techniky na Slovensku 2012, Chemický ústav SAV usporiadal Deň otvorených dverí CHÚ SAV (8.11.2012), počas ktorého viacerí pracovníci formou prednášok popularizovali svoju vedecko-výskumnú činnosť. Návštevníci (celkovo 138) mali tiež možnosť prezrieť si vybrané laboratóriá ústavu, zhliadnuť počítačovú prezentáciu vedecko-výskumnej práce a najvýznamnejších výsledkov jednotlivých oddelení CHÚ SAV a vo viacerých laboratóriách boli pripravené aj špeciálne popularizačné chemické pokusy a ukážky.

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25494
z toho	knihy a zviazané periodiká	25494
	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		84
z toho	odborná literatúra pre dospelých	8
	výpožičky periodík	42
	prezenčné výpožičky	34
MVS iným knižniciam		14
MVS z iných knižníc		5
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	0
Návštevníci knižnice spolu (bez návštevníkov podujatí)	43

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 €	5840

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

Ing. Miroslav Kóš, DrSc.

- člen

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

doc. Ing. Ladislav Petruš, DrSc.

- člen Predsedníctva SAV
- člen Vedeckej rady SAV

11.3. Členstvo vo vedeckých kolégiách SAV

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (člen)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Kóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

doc. Ing. Vladimír Farkaš, DrSc.

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Kóš, DrSc.

- Knižničná rada SAV (člen)
- Komisia SAV pre duševné vlastníctvo (člen)
- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Dislokačná komisia SAV (člen)
- Komisia SAV pre duševné vlastníctvo (člen)
- Komisia SAV pre infraštruktúru (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (predseda)
- Komisia SAV pre zahraničné styky (člen)
- Komisia SAV pre životné prostredie (predseda)
- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)

Ing. Elena Sláviková, PhD.

- Komisia SAV pre životné prostredie (člen)

11.5. Členstvo v orgánoch VEGA

Ing. Peter Gemeiner, DrSc.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (podpredseda)
- Rozšírené Predsedníctvo grantovej agentúry VEGA (člen)

Ing. Ján Hirsch, DrSc.

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

Ing. Miloš Hricovíni, PhD.

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

Ing. Miroslav Kóóš, 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. Náklady PO SAV

Tabuľka 12a Náklady PO SAV (v €)

Kategória	**Plán na rok 2012 (posledná uprava)**	**Skutočnosť k 31.12.2012 celkom**	**z toho:**	
			z príspevku	**z vlastných zdrojov**
Kapitálové výdavky	4819413	4819413	0	4819413
Náklady spolu:	3764365	3764365	2013416	1750949
z toho:				
- mzdové náklady (účet 521)	1311436	1311436	1139837	171599
- odvody do poisťovní a NÚP (účet 524-525)	409859	409859	392876	16983
- vedecká výchova	170009	170009	170009	0
- náklady na projekty (VEGA, APVV, ŠPVV, MVTS, ESF, CE)	238680	238680	238680	0
- náklady na vydávanie periodickej tlače	40191	40191	16368	23823

12.2. Tržby PO SAV

Tabuľka 12b Tržby PO SAV (v €)

Kategória	**Plán na rok 2012**	**Plnenie k 31.12.2012**
Výnosy spolu:	7887574	7887574
z toho:		
- príspevok na prevádzku	2013416	2013416
- vlastné tržby spolu:	268528	268528
z toho:		
- tržby za nájomné	5444	5444
- tržby za riešenie projektov (tuzemských + zahraničných)	5732520	5732520

13. Nadácie a fondy pri organizácii SAV

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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 2012: 41 (7 pre CHÚ, 25 pre iné pracoviská v SR a 9 pre zahraničie). Získané kultúry v roku 2012: 24 (12 samostatne izolovaných a 12 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 2865 € a úspora predstavovala 930 € (210 € za kmene pre CHÚ a 720 € za izolované a získané kmene).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers (Chemické Zvesti)* - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS) (IF2011 = 1.096). Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav. Od roku 2007 prešlo publikovanie tlačenej aj elektronickej verzie časopisu do kompetencie vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). Od roku 2012 vychádza ročne 12 čísiel (predtým 6 čísiel).

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment 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 2012 sumu 184899 €, čo je približne na úrovni vlaňajšieko roka a to aj napriek recesii a celosvetovej finančnej a hospodárskej kríze.

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 4449 €. Príjmy za rozbory vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely, predstavovali sumu cca 8813 €. V súčasnosti je snahou získať pre toto laboratórium príslušný certifikát kvality, čo by pripelo k zvýšeniu tržieb.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2012

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Hricovíni Miloš
Cena SAV za výsledky v oblasti medzinárodnej vedecko-technickej spolupráce
Oceňovateľ: Vedecká rada SAV

Kóš Miroslav
Medaila SAV za podporu vedy
Oceňovateľ: Vedecká rada SAV
Opis: Za celoživotnú aktívnu vedecko-výskumnú, pedagogickú a organizátorskú prácu v rámci SAV.

15.1.2. Iné domáce ocenenia

Farkaš Vladimír
Pamätná medaila Fakulty chemickej a potravinárskej technológie STU
Oceňovateľ: Fakulta chemickej a potravinárskej technológie STU

Kóš Miroslav
Medaila Slovenskej chemickej spoločnosti pri SAV
Oceňovateľ: Slovenská chemická spoločnosť pri SAV
Opis: Za aktívnu spoluprácu.

15.2. Medzinárodné ocenenia

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

V tejto súvislosti Chemický ústav nebol kontaktovaný žiadnou fyzickou ani právnickou osobou. 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.

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 všeobecnej výzvy APVV.

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

b) Iné problémy pracoviska

Napriek tomu, že sa výrazne zmodernizovala prístrojová technika v Analytickom oddelení, ktoré bolo vďaka finančným prostriedkom (cca 8 mil. €) z dvoch schválených projektov OP ŠF, v ktorých je ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiž došlo k podstatnému zlepšeniu situácie aj v prístrojovom vybavení jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participuje ako partner), nedostatok kapitálových finančných prostriedkov neumožnil v roku 2012 výraznejšiu obnovu prístrojového vybavenia v Realizačnom oddelení. Vzhľadom na morálne a fyzické opotrebovanie niektorých zariadení musel ústav vynakladať značné úsilie na ich prevádzku a zabezpečenie činnosti. V súvislosti s nevyhnutnou obnovou prístrojového a laboratórneho vybavenia, bude v najbližšom období potrebné kapitálovými prostriedkami dofinancovať aj Zbierku kvasiniek.

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

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

b) Iné podnety

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

pre každú univerzitu, na ktorej bol príslušný odbor doktorandského štúdia akreditovaný.

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

Vzhľadom na to, že systém 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.

Správu o činnosti organizácie SAV spracoval(i):

Ing. Miroslav Kóš, DrSc., 02/ 59410254, 02/ 59410200

Riaditeľ organizácie SAV:

.....
Ing. Miroslav Kóš, DrSc.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2012

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.	100	1.00
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	90	0.90
5.	Ing. Ján Hirsch, DrSc.	70	0.70
6.	Ing. Miroslav Koóš, DrSc.	100	1.00
7.	doc. Ing. Ladislav Petruš, DrSc.	100	1.00
8.	Ing. Ivan Šimkovic, DrSc.	100	1.00
9.	Ing. Ján Tkáč, DrSc.	100	1.00
10.	Ing. Igor Tvaroška, DrSc.	80	0.80
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
Samostatní vedeckí pracovníci			
1.	Ing. Emília Breierová, PhD.	100	1.00
2.	Ing. Marek Bučko, PhD.	100	1.00
3.	Mgr. Peter Capek, PhD.	100	1.00
4.	RNDr. Ján Gajdoš, PhD.	100	1.00
5.	Ing. Miloš Hricovíni, PhD.	100	1.00
6.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
7.	Ing. Zdena Hromádková, PhD.	100	1.00
8.	RNDr. Daniela Kákoniová, PhD.	31	0.31
9.	Ing. Jaroslav Katrlík, PhD.	100	1.00
10.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
11.	RNDr. Karin Kollárová, PhD.	100	1.00
12.	Mgr. Juraj Kóňa, PhD.	125	1.25
13.	RNDr. Desana Lišková, PhD.	100	1.00
14.	prof. RNDr. Alexander Lux, CSc.	5	0.05
15.	RNDr. Eva Machová, PhD.	100	1.00

16.	RNDr. Anna Malovíková, PhD.	100	1.00
17.	Ing. Vladimír Mastihuba, PhD.	100	1.00
18.	Ing. Mária Mastihubová, PhD.	100	1.00
19.	RNDr. Mária Matulová, PhD.	100	1.00
20.	Ing. Danica Mislovičová, PhD.	36	0.36
21.	RNDr. Ján Mucha, CSc.	100	1.00
22.	Ing. Jozef Nahálka, PhD.	100	1.00
23.	Ing. Ema Paulovičová, CSc.	100	1.00
24.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
25.	RNDr. Mária Petrušová, PhD.	100	1.00
26.	Ing. Monika Poláková, PhD.	100	1.00
27.	RNDr. Bohumil Steiner, PhD.	100	1.00
28.	Ing. Eva Stratilová, PhD.	100	1.00
29.	Mgr. Jana Šefčovičová, PhD.	100	1.00
30.	Ing. Renáta Vadkertiová, PhD.	100	1.00
31.	Ing. Alica Vikartovská, PhD.	100	1.00
32.	RNDr. Mária Vršanská, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	0.42
2.	Ing. Maroš Bella, PhD.	100	1.00
3.	Ing. Alžbeta Čížová, PhD.	100	1.00
4.	Mgr. Miroslava Ďuranová, PhD.	100	0.00
5.	Ing. Pavol Farkaš, PhD.	100	1.00
6.	Ing. Soňa Garajová, PhD.	100	0.00
7.	Mgr. Filip Holka, PhD.	50	0.50
8.	Ing. Eva Hrabárová, PhD.	100	1.00
9.	Mgr. Slavomíra Husárová, PhD.	100	0.17
10.	RNDr. Anna Kákošová, PhD.	100	0.78
11.	Mgr. Jana Korcová, PhD.	100	0.00
12.	Ing. Zuzana Košťálová, PhD.	100	1.00
13.	RNDr. Ján Kozák, PhD.	100	1.00
14.	Mgr. Stanislav Kozmon, PhD.	5	0.08
15.	RNDr. Erika Lattová, PhD.	100	0.00
16.	Ing. Izabela Medovarská, PhD.	100	0.00
17.	Ing. Júlia Mičová, PhD.	100	0.00

18.	Ing. Marek Nemčovič, PhD.	100	0.00
19.	Mgr. Ivana Nemčovičová, PhD.	100	0.00
20.	Ing. Lucia Paulovičová, PhD.	100	1.00
21.	Ing. Božena Pribulová, PhD.	100	1.00
22.	Ing. Michal Raab, PhD.	100	0.00
23.	doc. Ing. Vojtech Spiwok, PhD.	10	0.10
24.	Ing. Sergej Šesták, PhD.	100	1.00
25.	Ing. Katarína Šuchová, PhD.	100	0.00
26.	Mgr. Ivan Zelko, 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. Tomáš Bertók	25	0.13
5.	RNDr. Mária Dzúrová	100	1.00
6.	Ing. Erika Farkašová	100	1.00
7.	Ing. Jaroslav Filip	37	0.15
8.	Bc. Peter Kis	100	1.00
9.	Mgr. Lenka Kohútová	80	0.69
10.	Ing. Peter Magdolen	100	1.00
11.	Ing. Ema Podobová	100	1.00
12.	PhDr. Eva Riganová	100	1.00
13.	RNDr. Vlasta Sasinková	100	1.00
14.	Ing. Andrea Schenkmayerová	12	0.12
15.	Ing. Hana Smrtičová	100	1.00
16.	Mgr. Alena Šedivá	13	0.05
17.	Ing. Jozef Švec	100	1.00
18.	Ing. Jozef Tonka	100	1.00
19.	Ing. Jozef Turjan	100	1.00
20.	RNDr. Iveta Uhliariková	100	1.00
21.	Mgr. Zuzana Vatehová	100	0.33
22.	Ing. Silvia Vlčková	100	1.00
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.	Ľudmila Gažíková	100	1.00
6.	Jana Guthová	100	1.00
7.	Beáta Chválová	100	1.00
8.	Nataša Izáková	100	1.00
9.	Mária Janáčiová	80	0.88
10.	Beáta Kalivodová	100	1.00
11.	Alžbeta Kanská	100	1.00
12.	Janka Komačková	100	1.00
13.	Ľudovít Kompaník	100	1.00
14.	Jana Köplingerová	100	1.00
15.	Eva Morháčová	100	1.00
16.	Milan Novosad	100	1.00
17.	Nadežda Orthová	100	1.00
18.	Margita Plšková	100	1.00
19.	Emília Rosová	100	1.00
20.	Kvetoslava Sabová	100	1.00
21.	Zdena Smolková	100	1.00
22.	Radoslava Šályová	100	1.00
23.	Alena Šoltésová	100	1.00
24.	Nadežda Šporánková	100	1.00
25.	Oľga Švančarová	100	1.00
26.	Vojtech Tóth	100	1.00
27.	Matej Vaš	100	1.00
28.	Erika Voleková	100	1.00
29.	Scarlett Weinzettlová	100	1.00
30.	Dana Žišková	100	1.00
Ostatní pracovníci			
1.	Peter Cagáň	80	0.40
2.	Antónia Csölleová	100	0.75
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.	František Špetko	100	1.00
9.	Ivan Vavro	100	1.00
10.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Ing. Elena Sláviková, PhD.	31.7.2012	0.58
Vedeckí pracovníci			
1.	Mgr. Jana Přecechtělová, PhD.	31.3.2012	0.25
Ostatní pracovníci			
1.	Margita Schwarzová	30.6.2012	0.25

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Lucia Achbergerová	Prírodovedecká fakulta UK	4.1.22 biochémia
2.	Ing. Tomáš Bertók	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
3.	Mgr. Ľubomíra Deáková	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
4.	Mgr. Miroslava Droppová	Prírodovedecká fakulta UK	4.1.22 biochémia
5.	Ing. Jaroslav Filip	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
6.	Mgr. Anna Fleischhackerová	Prírodovedecká fakulta UK	4.1.22 biochémia
7.	Mgr. Martina Garaiová	Prírodovedecká fakulta UK	4.1.22 biochémia
8.	Ing. Andrej Chyba	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
9.	Mgr. Anikó Illésová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
10.	Ing. Ľudmila Kluková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
11.	Ing. Kristína Kováčová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
12.	Ing. Jana Molnárová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
13.	Ing. Kornélia Nemcová	Slovenská technická univerzita v Bratislave	5.2.25 biotechnológie

14.	Mgr. Zuzana Neščáková	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
15.	Ing. Zuzana Pakanová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
16.	Mgr. Ružena Pilišiová	Prírodovedecká fakulta UK	4.1.22 biochémia
17.	Ing. Peter Seč	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
18.	Ing. Andrea Schenkmayerová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
19.	Mgr. Alena Šedivá	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
20.	Mgr. Mária Šedivá	Prírodovedecká fakulta UK	4.1.22 biochémia
21.	Mgr. Zuzana Šimová	Prírodovedecká fakulta UK	4.1.22 biochémia
22.	RNDr. Klaudia Talafová	Prírodovedecká fakulta UK	4.1.22 biochémia
23.	Mgr. Veronika Virčíková	Prírodovedecká fakulta UK	4.1.22 biochémia
24.	Ing. Zuzana Zemková	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
Interní doktorandi hradení z iných zdrojov			
1.	Ing. András Hushegyi	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
Externí doktorandi			
organizácia nemá externých doktorandov			

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

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

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

Dosiahnuté výsledky:
V rámci dohody absolvovali na CHÚ SAV 12-dňovú stáž dvaja pracovníci z RAMS (Dr. Kisarova a Dr. Suchovershin).

2.) Štúdium štruktúry filmov z polysacharidov pomocou mikroskopie atómového poľa *(The study of polysaccharide films structure with the help of atomic force microscopy)*

Zodpovedný riešiteľ:	Ivan Šimkovic
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	12-SAV-PAV
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Poľsko: 2
Čerpané financie:	

Dosiahnuté výsledky:
U pripravených polysacharidových filmov bola študovaná štruktúra pomocou mikroskopie atómového poľa. V roku 2012 nebola uskutočnená žiadna mobilita. Dosiahnuté výsledky budú publikované v roku 2013.

Programy: Medziústavná dohoda

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

Zodpovedný riešiteľ:	Peter Biely

Trvanie projektu:	1.11.2009 / 30.12.2013
Evidenčné číslo projektu:	Collaborative Research Agreement
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Nórsko: 2
Čerpané financie:	Novozymes A/S, Bagsvaerd, Denmark: 15000 €

Dosiahnuté výsledky:
Porovnávali sa katalytické vlastnosti bakteriálnych a fungálnych endoxylanáz rodiny GH30. Študoval sa tiež mechanizmus rozpoznávania substrátu u bakteriálnych enzýmov.

4.) Biokonverzia xylánu z pšeničnej slamy *(Bioconversion of wheat straw xylan)*

Zodpovedný riešiteľ:	Peter Biely
Trvanie projektu:	1.1.2012 / 30.9.2012
Evidenčné číslo projektu:	Agreement
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 2
Čerpané financie:	Annikki GmbH, Rakúsko: 7500 €

Dosiahnuté výsledky:
Študovali sa možnosti využitia xylanu izolovaného z pšeničnej slamy alkalickou extrakciou na prípravu kryštalickej xylózy a xylooligosacharidov. Projekt bol úspešne ukončený.

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

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.6.2011 / 30.9.2013
Evidenčné číslo projektu:	Agreement
Organizácia je koordinátorom projektu:	nie
Koordinátor:	P. Dabrowski, MSc., Eng., DK Analityka, Jelenia Gora
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DK Analityka, Poland: 6796 €

Dosiahnuté výsledky:

6.) Hodnotenie a selekcia rýchlorastúcich drevín pre fytoremediáciu oblastí znečistených kovmi: úloha génov exprimovaných v koreni pri tolerancii zinku (Zn) *(Valutazione e selezione di specie arboree a rapido accrescimneto per la fitodepurazione di aree inquinate da metalli: coinvolgimento di geni espessi a livello radicale nella tolleranza asllo zinco (Zn))*

Zodpovedný riešiteľ:	Alexander Lux
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	Agreement
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Luca Sebastiani, BioLab, Scuola Superiore Sant'Anna
Počet spoluriešiteľských inštitúcií:	2 - Taliansko: 2
Čerpané financie:	

Dosiahnuté výsledky:
Zistila sa medzidruhová variabilita vo vývine a štruktúre pletív koreňov a listov súvisiaca s rozdielnou toleranciou skúmaných druhov a klonov topoľov na zvýšenú koncentráciu zinku v substráte.

Programy: Medzivládna dohoda

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

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2012 / 31.12.2013
Evidenčné číslo projektu:	SK-SRB-0041-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Srbsko: 2
Čerpané financie:	APVV: 2235 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Mária Matulová
Trvanie projektu:	1.1.2012 / 31.12.2013
Evidenčné číslo projektu:	SK-FR-0030-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Francúzsko: 1
Čerpané financie:	APVV: 1282 €

Dosiahnuté výsledky:
Francúzsky partner urobil skríning v banke mikroorganizmov izolovaných z atmosferických vôd na producentov biosurfaktantov. Uskutočnila sa inkubácia s najprodukt ívnejším z nich, Bacillus sp. 7B11. Jeho izolácia a štrukturálna analýza bola vykonaná na Slovensku. NMR a IČ spektroskopia potvrdili štruktúru lipoproteínu tohto biosurfaktantu. Výsledky boli prezentované na vedeckej konferencii.

UHLIARIKOVÁ, Iveta - SANCELME, Martine - SASINKOVÁ, Vlasta - CAPEK, Peter - MATULOVÁ, Mária - DELORT, Anne-Marie. Biosurfactant produced by Bacillus sp. 7B11, a bacterium isolated from clouds. In Programme & Abstract Booklet: FP7 EAST-NMR Project - Turkish NMR Meeting, December 5-7, 2012, Istanbul, Turkey. Istanbul: TUBITAK, 2012. P-3, p. 29. (AFG)

Programy: COST

9.) Kaskádovité chemoenzymatické procesy - nové synergie medzi chémiou a biochémiou *(Cascade chemoenzymatic processes - new synergies between chemistry and biochemistry)*

Zodpovedný riešiteľ:	Peter Gemeiner
Trvanie projektu:	1.10.2008 / 30.4.2012
Evidenčné číslo projektu:	COST Action CM0701
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Sergio Riva, Institute of the Chemistry of Molecular Recognition, C.N.R., Modena University
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 1330 €

Dosiahnuté výsledky:
Projekt bol úspešne ukončený v apríli 2012. Ing. Bučko sa zúčastnil záverečného mítingu Management Committee projektu COST Action CM0701 12.-14. 4. 2012 v Grazi, na ktorom bola schválená záverečná správa projektu a bola dohodnutá budúca spolupráca.

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

Zodpovedný riešiteľ:	Peter Gemeiner
Trvanie projektu:	15.6.2011 / 18.1.2016
Evidenčné číslo projektu:	COST CMST Action CM1101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Piotr Warszynski, Institute of Catalysis and Surface Chemistry, Krakow, Poland
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Výskumné aktivity boli zamerané na výskum v oblasti vývoja lektínových, glykánových a glykoproteínových biočipov a ich aplikácií v kombinácii s SPR a microarray platformou. V tejto súvislosti sa uskutočnila vedecká stáž Gianlucu Accogliho z University of Bari "Aldo Moro", pod názvom "Lectin microarray techniques", ktorá bola zameraná na vývoj a testovanie metódy sledovania špecifickej expresie glykokonjugátov ako markerov funkčného stavu systému na celých bunkách.
Ing. Jaroslav Katrlík, PhD. sa zúčastnil 1st Management Committee Meeting v Belgicku, Management Committee Meeting vo Švédsku a mal posterovú prezentáciu na 26th Conference of the European Colloid and Interface Society – ECIS.
V rámci COST projektu sa uskutočnil vedecko-výskumný pobyt Dr. Georgija Yordanova z Faculty of Chemistry, University of Sofia, Bulharsko, ktorého náplňou bolo skúmanie interakcie medzi plazmovými proteínmi a koloidnými polymérnymi nanonosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR). Merané boli interakcie čistého nanonosiča (drug-free) a nanonosiča s epirubicínom (drg-loaded). Výsledky boli prezentované na dvoch zahraničných konferenciách.

YORDANOV, Georgi - GEMEINER, Peter - KATRLÍK, Jaroslav. Investigation of the interactions between plasma proteins and polymeric colloidal drug carriers by SPR technique. In Program Book: Colloids & Nanomedicine 2012, 15-17 July 2012, Amsterdam, The Netherlands. Amsterdam: Elsevier, Ltd, 2012. P2.14. (AFG)

KATRLÍK, Jaroslav - GEMEINER, Peter - YORDANOV, Georgi. Study of interaction of human plasma proteins with polymeric nanoparticles as drug carriers with surface plasmon resonance. In Poster presentations: ECIS 2012 - 26th Conference of the European Colloid and Interface Society, 2-7 September 2012, Malmö & Lund, Sweden. Malmö: Malmö University, 2012. MPLate:14, p. 418. (AFG)

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

Zodpovedný riešiteľ:	Zdena Hromádková
Trvanie projektu:	1.8.2009 / 31.5.2013
Evidenčné číslo projektu:	COST Action FP0901
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Stefan Willför, Wood and Paper Chemistry, Abo Akademi University
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Aktívna účasť Dr. Z. Hromádkovej na stretnutí Management Committee v Espoo, Fínsko (29.-31. 9. 2012, kde sa rokovalo o organizačných zmenách a financovaní projektu v roku 2012 a 2013 a analyzovali sa výsledky dosiahnuté v jednotlivých pracovných skupinách za obdobie od posledného stretnutia vo Viterbe v Taliansku. Prehodnotili sa spoločne dosiahnuté výsledky tzv. „Robin testu“, pri ktorom sa porovnávali analytické výsledky jednotlivých laboratórií pri hodnotení zloženia a obsahu komponentov v pšeničnej slame (proteíny, hemicelulózy, extraktívne látky, lignín, popol, atď). V rámci stretnutí bola dohodnutá ďalšia spolupráca s pracoviskom v Českých Budejoviciach na výskume polysacharidov a extraktívnych látok z invazívnych rastlín (Fallopia a Impatiens).

Výsledky našej pracovnej skupiny z výskumu chemického zloženia, štruktúry a termickej a termooxidačnej stability rôznych typov lignínov boli prezentované na dvoch konferenciách.

HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - SASINKOVÁ, Vlasta - VRCHOTOVÁ, Nadežda - MATISOVÁ-RYCHLÁ, Lýdia - CSOMOROVÁ, Katarína. Thermal and thermo-oxidative stability of lignins. In Book of Abstracts: COST Action FP0901 "Analytical tools for biorefineries" - Workshop "Challenges in lignin analytics: thermal properties and quantitation", August 30-31, 2012, Espoo, Finland. Espoo: VTT Technical Research Centre and Aalto University, 2012. p.26. (AFG)

VRCHOTOVÁ, Nadežda - JÍLEK, Rudolf - TŘÍSKA, Jan - HROMÁDKOVÁ, Zdenka. Extraction of naphthoquinones from Impatiens glandulifera leaves. In Books of Abstracts: 8th International Symposium on Chromatography of Natural Products, May 17-20, 2012, Lublin, Poland. Lublin: Medical University of Lublin, 2012. ISBN 978-83-923841-4-4. P-120, p. 176. (AFG)

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

Zodpovedný riešiteľ:	Zdena 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:	0
Čerpané financie:	

Dosiahnuté výsledky:
Projekt sa začal riešiť až koncom novembra 2012.

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

Zodpovedný riešiteľ:	Desana Lišková
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	COST Action FA0905
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Bal Ram Singh, Department of Plant and Environmental Sciences. Norwegian University of Life Sciences (UMB)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Študoval sa vplyv kremíka (Si) a kadmia (Cd) na rast koreňov a výhonkov, ako aj príjem Cd dvoch druhov Brassica (B. juncea (L.) Czern. cv. Vitasso a B. napus L. cv. Atlantic), ktoré by bolo možné potenciálne využiť pri fytoextrakciách. Si preukázateľne znížil inhibičný vplyv Cd na rastliny. Predlžovanie primárnych koreňov v prítomnosti Cd+Si v porovnaní so samotným Cd bolo silnejšie

v prípade B. juncea ako v prípade B. napus, ale v prípade B. napus sa znížila tvorba laterálnych koreňov v porovnaní s B. juncea. Obsah Cd v rastlinách koreloval s vývinom epidermy; suberínová lamela sa tvorila bližšie ku koreňovému apexu, ak rastliny boli kultivované v prítomnosti Cd+Si v porovnaní s rastlinami rastúcimi len v prítomnosti Cd. Tento efekt sa prejavil viac v prípade rastlín B. napus. Cd spôsobilo aj zníženie obsahu chlorofylov a karotenoidov v prípade oboch druhov. Si síce pozitívne ovplyvnil obsah fotosyntetických pigmentov tiež v oboch druhoch, ale vyšší obsah sa zistil pri druhu B. napus. Si podstatne zvýšil translokáciu Cd do výhonkov rastlín B. napus v porovnaní s B. juncea. Z výsledkov vyplýva, že B. napus je vhodnejšia pre fytoextrakciu kadmia ako B. juncea, pretože tieto rastliny produkujú viac biomasy a akumulujú väčšie množstvá Cd. Zdá sa tiež, že Si má protektívne účinky na rastliny v prípade kontaminácie prostredia kadmiom.

VATEHOVÁ, Zuzana - KOLLÁROVÁ, Karin - ZELKO, Ivan - RICHTEROVÁ-KUČEROVÁ, Danica - BUJDOŠ, Marek - LIŠKOVÁ, Desana. Interaction of silicon and cadmium in Brassica juncea and Brassica napus. In Biologia, 2012, vol. 67, p. 498-504. (0.557 - IF2011). ISSN 0006-3088. (ADDA)

ZELKO, Ivan - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - KUČEROVÁ, Danica - KÁKONIOVÁ, Daniela - LIŠKOVÁ, Desana. Silicon and cadmium interaction in two Brassica species. In Full Programme: 8th Symposium of the International Society of Root Research - Roots to the Future, 26-29 June 2012, Dundee, Scotland. East Malling: International Society of Root Research. P131, p. 68. (AFG)

14.) Chemické metódy zamerané na odolnosť liečiv v kmeňových rakovinových bunkách
(Chemical approaches to targeting drug resistance in cancer stem cells)

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	28.3.2012 / 27.3.2016
Evidenčné číslo projektu:	COST CMST Action CM1106
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Daniele Passarella, Universita degli Studi di Milano Dipartimento di Chimica Organica e Industriale, Milano, Italy
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 3000 €

Dosiahnuté výsledky:
Časť projektu je zameraná na počítačové metódy a predikciu. Pracovná skupina z CHÚ SAV začala vyvíjať metodológiu na spresnenie predikcie potentných inhibítorov sacharid-procesujúcich enzýmov, ktoré využívajú na svoju enzýmovú katalýzu prechodné kovy. Táto metodológia nájde uplatnenie aj pri dizajne inhibítorov iných typov proteínov, ktoré používajú na svoju aktivitu prechodné kovy.
V r. 2012 bol navrhnutý a testovaný predpovedný 3D-QSAR model pre dizajn potentných inhibítorov ľudskej Golgi alfa-manozidázy II, ktoré by mali nájsť uplatnenie v chemoterapii rakoviny. Nová metodológia je založená na presnejšej predikcii interakčnej energie medzi inhibítorom a enzýmom pomocou 3D kvantovochemických deskriptorov počítaných na DFT (Density Functional Theory) úrovni. Aby bolo možné DFT deskriptory využiť aj pre väčšie databázy štruktúr, bola testovaná metóda dekompozície štrukturálnych fragmentov. Prvá časť výsledkov potvrdila funkčnosť a efektívnosť modelu, pričom bol vybudovaný predpovedný 3D-QSAR model s uspokojivými korelačnými a predpovednými štatistikami. Najlepší model je

založený na štyroch 3-D deskriptoroch a je schopný predpovedať inhibičné vlastnosti látok s presnosťou do 2 kcal/mol pre interakčnú energiu medzi ligandom a receptorom (výsledky pripravené na publikovanie). Príprava vstupov a analýza výsledkov bola automatizovaná a v súčasnosti sa dajú spracovať databázy štruktúr veľkosti do 1000 látok. Ďalej sa plánuje vylepšiť predikciu QSAR modelu na dizajn aj selektívnych inhibítorov ľudskej Golgi alfa-manozidázy II a urýchliť metodológiu na spracovanie väčších databáz štruktúr. Výsledky sa spracovávajú do publikácie.

15.) 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:	COST CMST Action CM1102
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Bruce Turnbull, University of Leeds, School of Chemistry, Leeds, United Kingdom
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 4667 €

Dosiahnuté výsledky:
Pokračovalo sa v štúdiu katalytického mechanizmu glykozyltransferázy OGT. Enzým, nazývaný OGT je zodpovený za pridanie sacharidu N-acetylglukozamínu na proteíny a detailné porozumenie tohoto mechanizmu môže viesť na cielené vylepšeniu týchto chorobných stavov. Mechanizmus OGT bol študovaný pomocou QM-MM metód. Získané výsledky podporujú SN2 typ mechanizmu, v ktorom sacharid sám napomáha reakcii, a ktorý nebol doteraz pozorovaný u enzýmov tohoto typu. Získané výsledky môžu poskytnúť údaje na dizajn nových liečív cielených na choroby súvisiace s aktivitou OGT. Niektoré výsledky boli publikované:

TVAROŠKA, Igor - KOZMON, Stanislav - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Substrate-assisted catalytic mechanism of O-GlcNAc transferase discovered by quantum mechanics/molecular mechanics investigation. In Journal of the American Chemical Society, 2012, vol. 134, p. 15563-15571. (9.907 - IF2011). ISSN 0002-7863. (ADCA)
Ďalšie dve publikácie sú v štádiu prípravy.

Programy: European Science Foundation (ESF)

16.) Multidisciplinárne hranice magnetickej rezonancie *(Multidisciplinary frontiers of magnetic resonance)*

Zodpovedný riešiteľ:	Mária Matulová
Trvanie projektu:	1.4.2007 / 30.4.2012
Evidenčné číslo projektu:	05-PGM-022 (ESF-RNP-PESC)
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Miquel Pons, University of Barcelona, Institute of Biomedical Research, Barcelona
Počet spoluriešiteľských	0

inštitúcií:	
Čerpané financie:	ESF: 4999 €
	Podpora medzinárodnej spolupráce z národných zdrojov: 1333 €

Dosiahnuté výsledky:
Hlavnými cieľmi EMAR projektu bola podpora účasti doktorandov a mladých pracovníkov na EUROMAR konferencii a organizovanie letných škôl a workshopov v oblasti magnetickej rezonancie. Finančná podpora bola poskytovaná výlučne iba na tieto účely.
V roku 2012 bolo NMR laboratórium na Chemickom ústave SAV organizátorom mítingu mladých vedeckých pracovníkov - 2nd EAST NMR Young Investigator´s Meeting v Bratislave, 16.-18. mája 2012. Na jeho zorganizovanie ESF poskytla dotáciu 4999 €. Publikačná činnosť nie je cieľom EMAR projektu. Avšak účasť na ňom umožnila slovenskému tímu prezentovať výsledky svojej práce, nadviazanie nových kontaktov a spolupráce. V rámci nej začínajú prebiehať prípravy spoločného projektu, do ktorého by sa mali zapojiť NMR laboratóriá z východnej Európy.

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

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.5.2009 / 30.4.2014
Evidenčné číslo projektu:	07-RNP-015 (ESF-RNP-LESC)
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Sabine L. Flitsch, School of Chemistry, Manchester Interdisciplinary Biocentre
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
V dňoch 22.-27. 07. 2012 sa Dr. Ján Mucha zúčastnil konferencie "Glycosummit 2012" v Madride, Španielsko, ktorá bola organizovaná v rámci 26th International Carbohydrate Symposium (ICS2012). Taktiež sa zúčastnil pracovného stretnutia "Steering committee EuroGlycoforum RNP".

Programy: 7RP

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

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.4.2008 / 31.12.2012
Evidenčné číslo projektu:	FP7 211252
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. David Stuart, Division of Structural Biology, University of Oxford
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Podobne ako v iných krajinách, ktoré sa zapojili do programu INSTRUCT, bola aj na Slovensku vytvorená tzv. „National Users Group“, ktorá zahŕňa pracoviská SAV a vysokých škôl. Hoci vedeckí pracovníci vyjadrili záujem zapojiť sa do tohto programu, členstvo Slovenska v programe INSTRUCT nie je zatiaľ úplné. Plné členstvo vyžaduje súhlas MŠVVŠ SR a Vlády SR a príspevok každej participujúcej krajiny (50000 Eur). Rozhodnutie však bolo odložené na neskorší termín. V súčasnosti participuje v programe 25 krajín s vyše 1200 členmi (traja zo Slovenska) a 216 organizácií (dve zo Slovenska). Hoci SR nie je plným členom programu, vedeckí pracovníci môžu čiastočne využívať infraštruktúru pracovísk. Náklady pobytu na zahraničných pracoviskách si však musia pracovníci platiť z vlastných zdrojov. Preto sa v rámci „National Users Group“ dohodlo, že pobyty na jednotlivých pracoviskách v rámci INSTRUCT-u si budú hradiť výskumníci prostredníctvom financií cez MVTS projekty, ktoré budú predkladané za jednotlivé pracoviská. V r. 2012 sa pridelené prostriedky MVTS využívali na nákup výpočtovej techniky a chemikálií potrebných na riešenie projektov medzinárodnej spolupráce, ktorá súvisí s programom a čiastočne na hradenie cestovných nákladov súvisiacich s NMR experimentami na zahraničnom pracovisku. Riešila sa najmä štruktúra biologicky aktívnych sacharidov v spolupráci s talianskymi a francúzskymi pracoviskami.

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

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.2.2009 / 31.1.2013
Evidenčné číslo projektu:	228461-EAST-NMR
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Harald Schwalbe, Center for Biomolecular Magnetic Resonance, Johann Wolfgang Goethe-Universität Frankfurt a.M.
Počet spoluriešiteľských inštitúcií:	21 - Bulharsko: 1, Česko: 1, Nemecko: 2, Estónsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Maďarsko: 2, Švajčiarsko: 1, Izrael: 1, Taliansko: 1, Lotyšsko: 2, Holandsko: 1, Poľsko: 2, Slovensko: 1, Slovinsko: 1, Turecko: 1
Čerpané financie:	EC Brussels: 32606 €
	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Projekt je riešený v rámci programu INFRASTRUCTURES a je určený na podporu rozvoja NMR infraštruktúry vo východouerópskych krajinách. V rámci projektu sa konali štyri veľké konferencie a poslednou z nich bola konferencia pre mladých vedeckých pracovníkov, 2nd EAST NMR Young Investigators‘ Meeting, ktorá sa konala 16.-18. mája 2012 v hoteli Tatra v Bratislave. Na meetingu prezentovali svoje práce medzinárodne uznávaní experti z viacerých krajín EÚ, ako aj mladí pracovníci formou prednášok a posterov (Nemecko, Španielsko, Taliansko, Poľsko, Maďarsko, Estónsko, Litva, Česko, Turecko). Slovensko malo na tomto meetingu významné zastúpenie, čo umožnilo prezentovať svoje výsledky hlavne mladým kolegom (SAV, STU Bratislava, PriF UK Bratislava, UPJŠ Košice, STU Košice) v oblasti NMR a EPR spektroskopie.

V rámci programu sa financoval aj pobyt zahraničného študenta na Chemickom ústave SAV. V r. 2012 sa viacerí vedeckí pracovníci z CHÚ SAV zúčasnili konferencií (Írsko, Bulharsko, Slovinsko, Turecko) v rámci EAST NMR projektu. Účasť na uvedých meetingoch bola tiež čiastočne financovaná z MVTS projektu.

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

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.10.2012 / 30.9.2016
Evidenčné číslo projektu:	FP7-317420
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Pedro Estrela, University of Bath, Bath
Počet spoluriešiteľských inštitúcií:	8 - Nemecko: 1, Veľká Británia: 3, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Portugalsko: 1
Čerpané financie:	EC Brussels: 1026 €

Dosiahnuté výsledky:
Na ustanovujúcom mítingu konzorcia v Bath (UK) sa stanovili úlohy pre jednotlivé riešiteľské organizácie.

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

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	1.9.2008 / 30.8.2013
Evidenčné číslo projektu:	NMP4-LA-2008-212043
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Massimo Masserini, Department of Experimental Medicine, University of Milano-Bicocca
Počet spoluriešiteľských inštitúcií:	19 - Belgicko: 1, Dánsko: 1, Španielsko: 3, Fínsko: 1, Francúzsko: 3, Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Taliansko: 3, Holandsko: 1, Portugalsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	EC Brussels: 32998 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Štúdium bolo zamerané na interakcie beta-amyloidu s fosfolipidmi, polypeptidmi, meďou a kurkumínom metódami molekulového modelovania.
Na charakterizovanie a pochopenie nešpecifických interakcií medzi nanočasticou P(HDCA-co-MePEGCA), poly(hexadecylkyanoakrylát-ko-metoxyetylén glykol kyanoakrylát) a amyloidným beta-peptidom(1-42) bol postavený (testovacia fáza), parametrizovaný a testovaný pre simulácie molekulovej dynamiky na nanosekundovej úrovni PEG (polyetylénglykol) nanočastičový model. PEG nanočastice boli modelované ako micela 65 DPC lipidov na povrchu ktorej boli naviazané 4 PEG reťazce (dĺžka reťazcov bola testovaná pre 25 a 50 etylénglykolových jednotiek). Výsledky z molekulovej dynamiky indikovali, že DPC micela so 4 PEG reťazcami je nedostatočný model na modelovanie PEG nanočastice. Preto bol počet PEG reťazcov zvýšený na 12. Takýto model by mal

odrážať štruktúru PEG nanočastice a bude použitý na MD simulácie s amyloidnými peptidmi. Výsledky ďalej indikovali, že použitá parametrizácia micely a peptidu (AMBER a GAFF force fields) sú postačujúce na modelovanie dynamických vlastnosti takýchto štruktúr.
Študovali sa tiež molekulovo dynamické simulácie a analýzy Cu2+ iónu koordinovaného s tromi histidínmi beta-amyloidu, menovite His6, His13 a His14, pričom sa vychádzalo zo štruktúry, kde meďnatý ión bol umiestnený blízko His6. Komplex Cu2+ s His6, His13 a His14 bol vytvorený z tejto štruktúry použitím constrainovanej molekulovo dynamickej simulácie. Vzniknutý komplex ovplyvnil sekundárnu štruktúru beta-amyloidu v okolí histidínov, ktoré koordinuju Cu2+ ión.. Komplex narušil stabilnú alfa-helikálnu štruktúru a vytvoril krátku slučku ktorá umožnila vznik (His)3–Cu2+ ión komplexu. Zo vzniknutého komplexu bola spustená 100 ns molekulovo dynamická produkčná simulácia (His)3–Cu2+ komplexu bez použitia constrainov a restrainov. Simulácia bola počítaná použitím štandardnej NPT procedúry pri 298.15 K, 101 kPa, celý systém bol zneutralizovaný proti-iónmi a koncentrácia NaCl bola nastavená na 15 mmol/l. Vo vypočítanej molekulovo dynamickej trajektórii boli analyzované vzdialenosti medzi Cu2+ a dusíkmi na His6, His13, His14, medzi Cu2+ a karbonylovými kyslíkmi peptidickej väzby His6, His13 a medzi kyslíkmi Asp23 a dusíkom na Lys28. Zistilo sa, že (His)3–Cu2+ komplex bol stabilný prvých približne 9.5 ns simulácie. Po 9.5 ns sa tento His14 vzdialil od Cu2+ a následne po oslabení tejto interakcie sa celý komplex v krátkom čase rozpadol. Toto naznačuje , že (His)3 –Cu2+ je stabilný len v prípade, že Cu2+ je koordinovaný aspoň dvoma His rezíduami. Dosiahnuté výsledky naznačujú, že His13 sa najväčšou mierou podieľa na stabilite komplexu a pre dlhodobú stabilitu (His)3–Cu2+ komplexu je potrebná koordinácia všetkými troma histidínovými rezíduami. Výsledky boli publikované v dvoch prácach:

BRAMBILLA, Davide - VERPILLOT, Romain - LE DROUMAGUET, Benjamin -NICOLAS, Julien - TAVERNA, Myriam - KÓŇA, Juraj - LETTIERO, Barbara - HASHEMI, S. Hossein - DE KIMPE, Line - CANOVI, Mara - GOBBI, Marco - NICOLAS, Valérie - SCHEPER, Wiep - MOGHIMI, S. Moein - TVAROŠKA, Igor - COUVREUR, Patrick - ANDRIEUX, Karine. PEGylated nanoparticles bind to and alter amyloid-beta peptide conformation: Towards engineering of functional nanomedicines for Alzheimer's disease. In ACS Nano, 2012, vol. 6, p. 5897-5908. (10.774 - IF2011). ISSN 1936-0851. (ADCA)

AHYAYAUCH, Hasna - RAAB, Michal - BUSTO, Jon V. - ANDRAKA, Nagore - ARRONDO, José-Luis R. - MASSERINI, Massimo - TVAROŠKA, Igor - GO?I, Félix M. Binding of ?-amyloid (1-42) peptide to negatively charged phospholipid membranes in the liquid-ordered state: Modeling and experimental studies. In Biophysical Journal, 2012, vol. 103, p. 453-463. (3.653 - IF2011). ISSN 0006-3495. (ADCA)

Projekty národných agentúr

Programy: VEGA

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

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

inštitúcií:	
Čerpané financie:	SAV: 7128 €

Dosiahnuté výsledky:

2.) Chemická príprava, charakterizácia a imunologické vlastnosti glykokonjugátov na báze vybraných oligosacharidových štruktúr antigénov patogénnych kandíd

Zodpovedný riešiteľ:	Slavomír Bystrický
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0040/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 20528 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0017/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 8180 €

Dosiahnuté výsledky:

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

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

inštitúcií:	
Čerpané financie:	SAV: 13238 €

Dosiahnuté výsledky:

5.) 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: 12204 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ján Hirsch
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0101/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 12153 €

Dosiahnuté výsledky:

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

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

inštitúcií:	
Čerpané financie:	SAV: 5726 €

Dosiahnuté výsledky:

8.) Prírodné a cielene hydrofobizované polysacharidy s antioxidačnými a asociatívnymi vlastnosťami *(Natural and tailored hydrophobized polysaccharides with antioxidant and associative properties)*

Zodpovedný riešiteľ:	Zdena Hromádková
Trvanie projektu:	1.1.2009 / 31.12.2012
Evidenčné číslo projektu:	2/0062/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV: 7743 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0178/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 6761 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Desana Lišková
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	2/0046/10
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV: 6667 €

Dosiahnuté výsledky:

11.) 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: 5089 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0138/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 9349 €

Dosiahnuté výsledky:

13.) NMR štrukturálna analýza metabolitov a iných biologicky aktívnych molekúl *(NMR structural analysis of metabolites and other biologically active molecules)*

Zodpovedný riešiteľ:	Mária Matulová
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0116/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 4908 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	2/0176/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 5907 €

Dosiahnuté výsledky:

15.) Štúdium využitia patogén-hostiteľ glykoproteínových interakcií v boji so samotným patogénom *(Study of application of pathogen-host glycoprotein interaction in fight against the pathogen itself)*

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0056/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 8288 €

Dosiahnuté výsledky:

16.) Glykomika a jej potenciál na charakterizáciu mikroorganizmov *(Glycomics - its potential for rapid characterization of microorganisms)*

Zodpovedný riešiteľ:	Vladimír Pätoprstý
Trvanie projektu:	1.1.2009 / 31.12.2012
Evidenčné číslo projektu:	2/0143/09
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 7615 €

Dosiahnuté výsledky:

17.) 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: 11509 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Monika Poláková
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0159/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 1636 €

Dosiahnuté výsledky:

19.) Charakterizácia tranzitných stavov neuraminidázy chrípkového vírusu pre racionálny dizajn inhibítorov *(Characterization of the influenza virus neuraminidase transition states for the rational design of inhibitors)*

Zodpovedný riešiteľ:	Michal Raab
Trvanie projektu:	1.1.2012 / 31.12.2012
Evidenčné číslo projektu:	2/0161/12
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 1790 €

Dosiahnuté výsledky:

20.) 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: 7457 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Sergej Šesták
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	2/0194/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 5367 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Renáta Vadkertiová
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	2/0005/10

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 7361 €

Dosiahnuté výsledky:

Programy: APVV

23.) 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: 3000 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0302-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 19049 €

Dosiahnuté výsledky:

25.) 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: 3950 €

Dosiahnuté výsledky:

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

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

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Desana Lišková
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0140-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK v Bratislave
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 16500 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Katrlík
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0290-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 6811 €

Dosiahnuté výsledky:

29.) 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: 34254 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	1.9.2008 / 30.6.2013
Evidenčné číslo projektu:	APVV-DO7RP-0013-08
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Massimo Masserini, Department of Experimental Medicine, University of Milano-Bicocca
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 9096 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Výskum a vývoj

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

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

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	1.1.2010 / 30.9.2013
Evidenčné číslo projektu:	26240120025
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	ASFEU: 21610 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	3.9.2010 / 31.8.2013
Evidenčné číslo projektu:	OPVaV-2009/4.1/03-SORO
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6

Čerpané financie:	ASFEU: 3303701 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	1.9.2010 / 31.8.2013
Evidenčné číslo projektu:	OPVaV-2009/2.1/03-SORO
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	ASFEU: 3229547 €

Dosiahnuté výsledky:

35.) Centrum pre materiály, vrstvy a systémy pre aplikácie a chemické procesy v extrémnych podmienkach - Etapa II *(Centre for materials, layers and systems for aplications and chemical processes under extreme conditions)*

Zodpovedný riešiteľ:	Pavol Šajgalík
Zodpovedný riešiteľ v organizácii SAV:	Ján Tkáč
Trvanie projektu:	1.4.2010 / 31.3.2012
Evidenčné číslo projektu:	26240120007
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	ASFEU: 3171 €

Dosiahnuté výsledky:

Programy: Centrá excelentnosti SAV

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

Zodpovedný riešiteľ:	Slavomír Bystrický
Trvanie projektu:	1.1.2009 / 31.12.2012
Evidenčné číslo projektu:	
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV: 26734 €

Dosiahnuté výsledky:

Programy: Podpora MVTS z prostriedkov SAV

37.) Kaskádovité chemoenzymatické procesy - nové synergie medzi chémiou a biochémiou *(Cascade chemoenzymatic processes - new synergies between chemistry and biochemistry)*

Zodpovedný riešiteľ:	Peter Gemeiner
Trvanie projektu:	1.10.2008 / 30.4.2012
Evidenčné číslo projektu:	COST Action CM0701
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Sergio Riva, Institute of the Chemistry of Molecular Recognition, C.N.R., Modena University
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

38.) 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:	COST CMST Action CM1101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Piotr Warszynski, Institute of Catalysis and Surface Chemistry, Krakow, Poland
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

39.) Integrovaná infraštruktúra pre štrukturálnu biológiu *(An integrated structural biology infrastructure for Europe)*

Zodpovedný riešiteľ:	Miloš Hricovíni

Trvanie projektu:	1.4.2008 / 31.12.2012
Evidenčné číslo projektu:	FP7 211252
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. David Stuart, Division of Structural Biology, University of Oxford
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.2.2009 / 28.2.2013
Evidenčné číslo projektu:	228461-EAST-NMR
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Harald Schwalbe, Center for Biomolecular Magnetic Resonance, Johann Wolfgang Goethe-Universität Frankfurt a.M.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Desana Lišková
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	COST Action FA0905
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Bal Ram Singh, Department of Plant and Environmental Sciences. Norwegian University of Life Sciences (UMB)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.5.2009 / 30.4.2014
Evidenčné číslo projektu:	ESF-RNP-LESC-07-RNP-015
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Sabine L. Flitsch, School of Chemistry, Manchester Interdisciplinary Biocentre
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	1.9.2008 / 30.6.2013
Evidenčné číslo projektu:	NMP4-LA-2008-212043
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Massimo Masserini, Department of Experimental Medicine, University of Milano-Bicocca
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (zoradená podľa kategórií)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 EBRINGEROVÁ, Anna. The potential of xylans as biomaterials resources. In HABIBI, Youssef - LUCIA, Lucian A. Polysaccharide Building Blocks: A Sustainable Approach to the Development of Renewable Biomaterials. - Hoboken : John Wiley and Sons, 2012.

ABC02 KOROLENKO, Tatyana - KISAROVA, Yana A. - FILJUSHINA, Elena E. - DERGUNOVA, Marina - MACHOVÁ, Eva. Macrophage stimulation and beta-D-glucans as biological response modifiers: the role in experimental tumor development. In TAKAHASHI, Rikiya - KAI, Hibiki. Handbook of Macrophages: Life Cycle, Functions and Diseases. - Hauppauge, NY, USA : Nova Science Publishers, Inc., 2012.

ABC03 LATTOVÁ, Erika - PERREAULT, Helene - POLÁKOVÁ, Monika. Glycans as potential diagnostic biomarkers and the importance of developing methods for glycan analysis. In MORA-MONTES, Hector Manuels. Glycans: Biochemistry, Characterization and Applications (Biochemistry Research Trends). - Hauppauge, NY, USA : Nova Science Publishers, Inc., 2012.

ABC04 NEMČOVIČOVÁ, Ivana - KUTÁ-SMATANOVÁ, Ivana. Alternative protein crystallization technique: Cross-influence procedure (CIP). In BORISENKO, Elena - KOLESNIKOV, Nikolai. Crystallization and materials science of modern artificial and natural crystals. - Rijeka, Croatia : In Tech, 2012. ISBN 978-953-3076089.

ABC05 VALACHOVÁ, Katarína - RAPTA, Peter - SLOVÁKOVÁ, M. - PRIESOLOVÁ, Elena - NAGY, Milan - MISLOVIČOVÁ, Danica - DRÁFI, František - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: testing of arbutin in the function of antioxidant : chapter 2. In Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives. - New York : Nova Science Publishers, 2012, p. 11-27. ISBN 978-1-61470-712-7.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

ADCA01 AHYAYAUCH, Hasna - RAAB, Michal - BUSTO, Jon V. - ANDRAKA, Nagore - ARRONDO, José-Luis - MASSERINI, Massimo - TVAROŠKA, Igor - GONI, Félix M. Binding of beta-amyloid (1-42) peptide to negatively charged phospholipid membranes in the liquid-ordered state: Modeling and experimental studies. In Biophysical Journal, 2012, vol. 103, p. 453-463. (3.653 - IF2011). (2012 - Current Contents). ISSN 0006-3495.

ADCA02 BAUEROVÁ, Katarína - MIHALOVÁ, Danica - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - KUCHARSKÁ, Jarmila - PAULOVIČOVÁ, Ema - NOSÁĽ, Radomír - PONIŠT, Silvester. Effects of glucomannan isolated from Candida utilis on adjuvant arthritis in Lewis rats. In Current Topics in Nutraceutical Research, 2012, vol. 10, no. 1, p. 13-30. (0.286 - IF2011). (2012 - Current Contents). ISSN 1540-7535.

ADCA03 BERTÓK, Tomáš - ŠEFČOVIČOVÁ, Jana - GEMEINER, Peter - TKÁČ, Ján. Vývoj a súčasné trendy pri príprave nanoštruktúrovaných biosenzorov. In Chemické listy, 2012, vol. 106, p. 174-181. (0.529 - IF2011). (2012 - Current Contents). ISSN 0009-2770.

ADCA04 BERTÓK, Tomáš - ŠEFČOVIČOVÁ, Jana - GEMEINER, Peter - TKÁČ, Ján.

Lektinomika: nástroj pre klinickú diagnostiku. In Chemické listy, 2012, vol. 106, s. 20-26. (0.529 - IF2011). (2012 - Current Contents). ISSN 0009-2770.

ADCA05 BIELY, Peter. Microbial carbohydrate esterases deacetylating plant polysaccharides. In Biotechnology Advances, 2012, vol. 30, p. 1575-1588. (9.646 - IF2011). (2012 - Current Contents). ISSN 0734-9750.

ADCA06 BRAMBILLA, Davide - VERPILLOT, Romain - LE DROUMAGUET, Benjamin - NICOLAS, Julien - TAVERNA, Myriam - KÓŇA, Juraj - LETTIERO, Barbara - HASHEMI, Hossein - DE KIMPE, Line - CANOVI, Mara - GOBBI, Marco - NICOLAS, Valérie - SCHEPER, Wiep - MOGHIMI, Moein - TVAROŠKA, Igor - COUVREUR, Patrick - ANDRIEUX, Karine. PEGylated nanoparticles bind to and alter amyloid-beta peptide conformation: Toward engineering of functional nanomedicines for Alzheimer´s disease. In ACS Nano, 2012, vol. 6, p. 5897-5908. (10.774 - IF2011). (2012 - Current Contents). ISSN 1936-0851.

ADCA07 BUBENČÍKOVÁ, Táňa - CHOLUJOVÁ, Dana - MESSINGEROVÁ, Lucia - MISLOVIČOVÁ, Danica - ŠEREŠ, Mário - BREIER, Albert - SULOVÁ, Zdena. Detection of glycomic alterations induced by overexpression of P-glycoprotein on the surfaces of L1210 cells using sialic acid binding lectins. In International Journal of Molecular Science, 2012, vol. 13, no. 11, p. 15177-15192. (2.598 - IF2011). (2012 - Current Contents). ISSN 1422-0067.

ADCA08 BUCOVÁ, Mária - SUCHÁNKOVÁ, Magda - DZURILLA, Martin - VRLÍK, Mojmír - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - URBAN, Štefan - HORNÁKOVÁ, Edita - ŠELIGOVÁ, Marianna - DURMANOVÁ, Vladimíra - PENZ, Peter - JAVOR, Juraj - PAULOVIČOVÁ, Ema. Inflammatory marker sTREM-1 reflects the clinical stage and respiratory tract obstruction in allergic asthma bronchiale patients and correlates with number of neutrophils. In Mediators of Inflammation, 2012, vol. 2012, article ID 628754, p. 1-8. (3.263 - IF2011). (2012 - Current Contents). ISSN 0962-9351.

ADCA09 BUČKO, Marek - MISLOVIČOVÁ, Danica - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica - ŠEFČOVIČOVÁ, Jana - KATRLÍK, Jaroslav - TKÁČ, Ján - GEMEINER, Peter - LACÍK, Igor - ŠTEFUCA, Vladimír - POLAKOVIČ, Milan - ROSENBERG, Michal - REBROŠ, Martin - ŠMOGROVIČOVÁ, Daniela - ŠVITEL, Juraj. Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. In Chemical Papers, 2012, vol. 66, no. 11, p. 983-998. (1.096 - IF2011). (2012 - Current Contents). ISSN 0366-6352.

ADCA10 ČÍŽOVÁ, Alžbeta - SROKOVA, I. - SASINKOVÁ, Vlasta - GAFF, R.Graeme - LANT, Neil J. Synthesis, characterization and antiredeposition properties of sulfoethyl locust bean gum-interaction with laundry detergent enzymes. In Tenside Surfactants Detergents, 2012, vol. 49, p.156-160. (0.638 - IF2011). (2012 - Current Contents). ISSN 0932-3414.

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ADDB02 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. XIII. Preparation of D-allose and D-altrose and their epimerizatio. In Chemické zvesti, 1975, vol. 29, p. 114-118. ISSN 0366-6352.

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1. [1.1] Hansen, HS (Hansen, Halvor S.); Hunenberger, PH (Huenenberger, Philippe H.) Source: JOURNAL OF COMPUTATIONAL CHEMISTRY Volume: 32 Issue: 6 Pages: 998-1032, WOS

2. [1.1] Perali, RS (Perali, Ramu Sridhar); Mandava, S (Mandava, Suresh); Bandi, R (Bandi, Ramakrishna) Source: TETRAHEDRON Volume: 67 Issue: 22 Pages: 4031-4035, WOS

ADDB03 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. IV. Epimerization of aldopentoses. In Chemické zvesti, 1972, vol. 26, p. 372-375. ISSN 0366-6352.

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1. [1.1] Hricoviniova, Z (Hricoviniova, Zuzana) TETRAHEDRON-ASYMMETRY Volume: 22 Issue: 11 Pages: 1184-1188, WOS

ADDB04 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. III. Praparation of L-glucose by epimerization of L-mannose or L- mannose phenylhydrazone. In Chemické zvesti, 1972, vol. 26, p. 187-189. ISSN 0366-6352.

Citácie:

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ADDB05 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. II. Expimerization of D-glucose and D-mannose. In Chemické zvesti, 1972, vol. 26, p. 183-186. ISSN 0366-6352.

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2. [1.1] Hricoviniova, Z (Hricoviniova, Zuzana) Source: TETRAHEDRON-ASYMMETRY Volume: 22 Issue: 11 Pages: 1184-1188, WOS
3. [1.1] Perali, RS (Perali, Ramu Sridhar); Mandava, S (Mandava, Suresh); Bandi, R (Bandi, Ramakrishna) Source: TETRAHEDRON Volume: 67 Issue: 22 Pages: 4031-4035, WOS

ADEB Vedecké práce v zahraničných nekarentovaných časopisoch neimpaktovaných

ADEB01 HROMÁDKOVÁ, Zdenka - STAVOVÁ, A. - EBRINGEROVÁ, Anna - HIRSCH, Ján. Effect of buckwheat hull hemicelluloses addition on the bread-making quality of wheat flour. In Journal of Food and Nutrition Research, 2007, vol. 46, p. 158-166. ISSN 1336-8672.
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1. [1.1] N (Nikolic, Nada); Nikolic, Sakac, M (Sakac, Marijana); Mastilovic, J (Mastilovic, Jasna) Source: LWT-FOOD SCIENCE AND TECHNOLOGY Volume: 44 Issue: 3 Special Issue: SI Pages: 650-655, WOS

ADEB02 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta. Yeasts and yeast-like organisms occurring in the river Morava. In Food Technology and Biotechnology : Journal of the Faculty of Food Technology and Biotechnology, 1997, vol. 35, p. 293-297. ISSN 1330-9862.
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ADEB03 ŠROBÁROVÁ, Antónia - KOGAN, Grigorij - EGED, Štefan. Yeast polysaccharide affects fusaric acid content in maize root rot. In Chemistry & biodiversity, 2005, vol. 2, no. 12, p. 1685-1690. (2005 - Current Contents). ISSN 1612-1872.
Citácie:
1. [1.1] TRUSZCZYNSKI, M. - PEJSAK, Z. Innate immunity against infection in swine. In Medycyna Weterynaryjna, 2011, vol. 67, no. 6, p. 368-371. ISSN 0025-8628., WOS

ADEB04 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Killer activity of yeasts isolated from natural environments against some medically important Candida species. In Polish Journal of Microbiology, 2007, vol. 56, p. 39-43. ISSN 1733-1331 (Print).
Citácie:
1. [1.1] Botha, A (Botha, Alfred) Source: SOIL BIOLOGY & BIOCHEMISTRY Volume: 43 Issue: 1 Pages: 1-8, WOS
2. [1.1] Korres, AMN (Korres, Adriana M. N.); Buss, DS (Buss, David S.); Ventura, JA (Ventura, Jose A.); Fernandes, PMB (Fernandes, Patricia M. B.) Source: FUNGAL BIOLOGY Volume: 115 Issue: 12 Pages: 1251-1258, WOS

ADFB Vedecké práce v domácich nekarentovaných časopisoch neimpaktovaných

ADFB01 DŘÍMAL, Ján - KNEZL, Vladimír - NAVAROVÁ, Jana - NEDELČEVOVÁ, Jana - PAULOVIČOVÁ, Ema - SOTNÍKOVÁ, Ružena - ŠNIRC, Vladimír - DŘÍMAL, Daniel. Role of inflammatory cytokines and chemoattractants in the rat model of streptozotocin-induced diabetic heart failure. In Endocrine Regulations, 2008, vol. 42, p. 129 - 135. ISSN 1210-0668.
Citácie:

1. [1.1] MAO, X.Y. - CHENG, X. - WANG, X. - WU, S.J. Free-radical-scavenging and anti-inflammatory effect of yak milk casein before and after enzymatic hydrolysis. In FOOD CHEMISTRY. ISSN 0308-8146, 2011, vol. 126, no. 2, p. 484-490., WOS
2. [1.1] VINEREAN, H.V. - GAZDA, L.S. - HALL, R.D. - SMITH, B.H. Streptozotocin is responsible for the induction and progression of renal tumorigenesis in diabetic wistar-furth rats treated with insulin or transplanted with agarose encapsulated porcine islets. In ISLETS. ISSN 1938-2014, 2011, vol. 3, no. 4, p. 196-203., WOS
3. [1.1] YU, R.J. - ZHANG, H.H. - HUANG, L. - LIU, X.F. - CHEN, J.S. Anti-hyperglycemic, antioxidant and anti-inflammatory effects of VIP and a VPAC1 agonist on streptozotocin-induced diabetic mice. In PEPTIDES. ISSN 0196-9781, 2011, vol. 32, no. 2, p. 216-222., WOS
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ADFB02 LUKÁŠOVÁ, E. - VOJTÍŠKOVÁ, M. - JELEN, F. - STICZAY, T. - PALEČEK, E. Osmium-induced alteration in DNA structure. In General Physiology and Biophysics, 1984, vol. 3, p. 175-191. ISSN 0231-5882.

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ADFB03 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, Ladislav. Protective effects of manganese(II) chloride on hyaluronan degradation byoxidative system ascorbate plus cupric chloride. In Interdisciplinary toxicology, 2010, vol. 3, no.1, p. 26-34. ISSN 1337-6853.

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1. [1.1] ZOMER, B. - COLLE, L. - JEDYNSKA, A. - PASTERKAMP, G. - KOOTER, I. - BLOEMEN, H. Chemiluminescent reductive acridinium triggering (CRAT)-mechanism and applications. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2011, vol. 401, no. 9, p. 2945-2954., WOS

AFHB Abstrakty príspevkov z domácich konferencií

AFHB01 ŠEFČOVIČOVÁ, Jana - VIKARTOVSKÁ, Alica, Welwardová - KATRLÍK, Jaroslav - TKÁČ, Ján - GEMEINER, Peter. Off-line monitorovanie biotransformácie D-sorbitolu na L-sorbózu pomocou ampérometrického biosenzora. In PREVEDA : Interaktívna konferencia mladých vedcov 2010. - Bratislava : Občianske združenie PREVEDA, 2010. ISBN 978-80-970421-5-8.

Citácie:

1. [1.1] Zebiri, I (Zebiri, Ilhem); Balieu, S (Balieu, Sebastien); Guilleret, A (Guilleret, Arnaud); Reynaud, R (Reynaud, Romain); Haudrechy, A (Haudrechy, Arnaud) Source: EUROPEAN JOURNAL OF ORGANIC CHEMISTRY Issue: 16 Pages: 2905-2910, WOS

Nezaradené publikácie

01 BIELY, Peter - KLUEPFEL, D. - MOROSOLI, R. - SHARECK, F. Mode of action of three endo-β-1,4-xylanases of Streptomyces lividans. In Biochimica et Biophysica

Acta : protein structure and molecular enzymology, 1993, vol. 1162, p. 246-254. ISSN 0167-4838.

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1. [1.1] Zhang, JH (Zhang, Junhua); Siika-aho, M (Siika-aho, Matti); Puranen, T (Puranen, Terhi); Tang, M (Tang, Ming); Tenkanen, M (Tenkanen, Maija); Viikari, L (Viikari, Liisa) Source: BIOTECHNOLOGY FOR BIOFUELS Volume: 4 Article Number: 12, WOS

02 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária - PETRÁKOVÁ, Eva. Induction of cellulose- and xylan.degrading enzyme complex in the yeast Trichosporon cutaneum. In Archives of Microbiology, 1984, vol. 138, p. 371-376. ISSN 0302-8933.

Citácie:

1. [1.1] Ellouze, OE (Ellouze, Olfa Elleuch); Loukil, S (Loukil, Sana); Marzouki, MN (Marzouki, Mohamed Nejib) Source: BMB REPORTS Volume: 44 Issue: 10 Pages: 653-658, WOS

2. [1.1] Yang, YY (Yang, Y. Y.); Du, LN (Du, L. N.); Wang, G (Wang, G.); Jia, XM (Jia, X. M.); Zhao, YH (Zhao, Y. H.) Source: WATER SCIENCE AND TECHNOLOGY Volume: 63 Issue: 5 Pages: 956-963, WOS

03 KOŠÍKOVÁ, Božena - BUČKO, J. Biotechnológie a využitie biomasy : Vysokoškolská učebnica. Zvolen : Technická univerzita vo Zvolene, 1999. ISBN 80-228-0862-8.

Citácie:

1. [1.1] Author(s): Taus, P (Taus, Peter); Kosco, J (Kosco, Jan); Rybar, R (Rybar, Radim); Kudelas, D (Kudelas, Dusan) 11TH INTERNATIONAL MULITDISCIPLINARY SCIENTIFIC GEOCONFERENCE (SGEM 2011), VOL III Book Series: International Multidisciplinary Scientific GeoConference-SGEM Pages: 93-100 Published: 2011, WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Miloš Hricovíni, PhD.
Názov semestr. predmetu: Rezonančná spektroskopia (4. a 5. roč.)
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
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 (5. roč.)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Semestrálne cvičenia:

Ing. Andrej Chyba
Názov semestr. predmetu: Laboratórne cvičenia z mikrobiológie I (2. ročník Bc. stupňa)
Počet hodín za semester: 56
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie, Ústav biochémie, výživy a ochrany zdravia

Mgr. Mária Šedivá
Názov semestr. predmetu: Laboratórne cvičenia zo základnej mikrobiológie (1. ročník Bc. stupňa)
Počet hodín za semester: 32
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Ing. Zuzana Zemková
Názov semestr. predmetu: Laboratórne cvičenia z potravinárskej biochémie (1. ročník Bc. stupňa v odbore Biológia)
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

Semináre:

Terénne cvičenia:

Individuálne prednášky:

Ing. Renáta Vadkertiová, PhD.

Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

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**
Argentína	Alexander Lux	14				
Austrália					Soňa Garajová	366
Belgicko					Jaroslav Katrlík	14
					Ladislav Petruš	4
					Ján Tkáč	3
Česko			Peter Capek	11	Lucia Achbergerová	4
					Emília Breierová	2
					Vladimír Farkaš	3
					Jaroslav Katrlík	2
					Júlia Mičová	366
					Ema Paulovičová	3
					Lucia Paulovičová	3
					Igor Tvaroška	38
Čína					Martina Garaiová	151
Francúzsko			Mária Matulová	40	Ivan Zelko	9
			Iveta Uhliariková	7		
Japonsko					Peter Biely	33
JAR					Peter Biely	30
Kanada					Erika Lattová	366
Nemecko					Renáta Vadkertiová	4
Poľsko					Peter Capek	21
Rakúsko			Peter Biely	3	Marek Baráth	193
					Igor Tvaroška	1
Srbsko	Jaroslav Katrlík	8				
	Alena Šedivá	8				
Španielsko					Peter Biely	15
USA					Marek	366

					Nemčovič	
					Ivana Nemčovičová	366
Veľká Británia					Jaroslav Katrlík	3
					Ján Tkáč	3
Počet vyslaní spolu	**3**	**30**	**4**	**61**	**26**	**2369**

(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**
Bulharsko					Dr. Georgi Yordanov	31
Rusko	Dr. Jana Kisarova	12				
	Dr. Roman Suchovershin	12				
Srbsko	Mgr. Goran Miljuš	8				
	Mgr. Miloš Šunderić	8				
Taliansko					Mgr. Gianluca Accogli	40
Počet prijatí spolu	**4**	**40**			**2**	**71**

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Belgicko	COST Action CM1101	Jaroslav Katrlík	3
	SCHRÖDINGER 2012	Juraj Kóňa	4
Bulharsko	CEE-NMR-Bruker	Mária Matulová	7
		Iveta Uhliariková	7
	Danube Strategy	Ladislav Petruš	1
Cyprus	COST Action TD0803	Ladislav Petruš	4
Česko	10th ISC-EPB	Zuzana Vatehová	3
	2. Workshop AM	Jana Přecechtělová	4
	4th EuCheMS	Ján Hirsch	7
	8. RMCK	Ružena Pilišiová	3
	8th ICP-G	Peter Capek	4
		Alžbeta Čížová	3
		Ján Hirsch	5
		Zdena Hromádková	4
	Biomarkery II	Ružena Pilišiová	2
	Glycosyntheses	Lucia Achbergerová	3
		Andrej Chyba	3
		Zuzana Zemková	3
	Plants 2012	Karin Kollárová	3

	Tomáškovy dny 2012	Anna Fleischhackerová	2
	Workshop FA-ERC	Ján Tkáč	1
		Alica Vikartovská	1
	XII. MSMBBCH	Tomáš Bertók	1
		Andrea Schenkmayerová	4
		Jana Šefčovičová	4
	XII. PSFCHE	Jaroslav Filip	1
		Ján Tkáč	1
	XXIII. Biochemický sjezd	Tomáš Bertók	4
		Anikó Illésová	4
		Alena Šedivá	4
		Igor Tvaroška	4
Čína	BIT-SEB 2012	Peter Biely	8
Fínsko	COST Action FP0901	Zdena Hromádková	3
Francúzsko	ESF-EuroGlycoforum	Ján Mucha	8
	KORANET	Ladislav Petruš	2
	PSP 2012	Zuzana Košťálová	4
Grécko	COST Action CM0903	Ladislav Petruš	5
	ESSEMAPC 2012	Ladislav Petruš	4
Chorvátsko	DCAPC-BMBS	Ladislav Petruš	5
Írsko	6th APC-COST CMST	Ladislav Petruš	5
	EUROMAR 2012	Miloš Hricovíni	7
		Mária Matulová	8
		Iveta Uhliariková	8
Macedónsko	COST-DC-BMB	Ladislav Petruš	4
Maďarsko	IC-MAST-2012	Jaroslav Filip	5
Nemecko	GlycoT Hannover 2012	Ján Hirsch	7
		Juraj Kóňa	7
		Igor Tvaroška	7
Poľsko	9th IC-PFUES	Karin Kollárová	4
		Zuzana Vatehová	4
Portugalsko	31th ECCO-MIRRI	Renáta Vadkertiová	5
	COST Action FA0905	Zuzana Vatehová	5
Rakúsko	COST Action CM0701	Marek Bučko	3
	Workshop MMQC	Miloš Hricovíni	6
Slovinsko	3rd East-NMR	Mária Matulová	5
		Iveta Uhliariková	5
Španielsko	26th ICS2012	Miloš Hricovíni	7
		Zuzana Hricovíniová	7
		Igor Tvaroška	7
	7RP-NAD	Igor Tvaroška	5
	ESF-Glycosummit	Ján Mucha	8
	IGS-IIGNTT	Jaroslav Katrlík	5
Švajčiarsko	COST Action CM1102	Ladislav Petruš	3
		Igor Tvaroška	4
	EuroFedLipid	Zuzana Šimová	4
Švédsko	ECIS 2012	Jaroslav Katrlík	4
Taliansko	COST Action CM1102	Igor Tvaroška	4

	Glycosaminoglycans	Miloš Hricovíni	6
Turecko	Turkish NMR Meeting	Mária Matulová	4
		Iveta Uhliariková	4
USA	13th ICY2012	Peter Biely	16
Veľká Británia	8th SISRR-RF	Ivan Zelko	8
	COST Action CM1102	Ladislav Petruš	5
Spolu	**50**	**73**	**339**

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

Skratky použité v tabuľke C:

10th ISC-EPB - 10th International Ph.D. Student Conference on Experimental Plant Biology
13th ICY2012 - 13th International Congress on Yeasts (ICY2012)
2. Workshop AM - 2. Workshop "Aplikovaná matematika"
26th ICS2012 - 26th International Carbohydrate Symposium
31th ECCO-MIRRI - 31th Annual Meeting of ECCO and MIRRI Meeting
3rd East-NMR - 3rd Annual East-NMR User Meeting
4th EuCheMS - 4th EuCheMS Chemistry Congress
6th APC-COST CMST - 6th Annual Progress Conference and 18th DC Meeting of COST CMST Domain
7RP-NAD - Nanoparticles for therapy and diagnosis of Alzheimer disease - NAD
8. RMCK - 8. Ročník motolského cytometrického kurzu
8th ICP-G - 8th International Conference on Polysaccharides-Glycoscience
8th SISRR-RF - 8th Symposium of the International Society of Root Research - Roots to the Future
9th IC-PFUES - 9th International Conference: Plant Functioning under Environmental Stress
Biomarkery II - Seminár "Biomarkery lidských chorob II"
BIT-SEB 2012 - BIT's 3rd Symposium on Enzymes & Biocatalysis, Sub-conference 4
CEE-NMR-Bruker - 4th Central and Eastern European NMR Symposium and Bruker User?s Meeting
COST Action CM0701 - Management Committee Meeting - COST Action CM0701
COST Action CM0903 - COST Action CM0903 MC joint WG Meeting
COST Action CM1101 - 1st Management Committee meeting of the COST Action CM1101
COST Action CM1102 - COST Action CM1102
COST Action CM1102 - COST Action CM1102 – MultiGlycoNano Meeting
COST Action FA0905 - COST Action FA0905 - Third Annual Workshop
COST Action FP0901 - COST Action FP0901 Meeting
COST Action TD0803 - COST Action TD0803 WG and MC Meeting
COST-DC-BMB - COST Domain Committee on Biomedicine and Molecular Biosciences
Danube Strategy - Kick-off event "Science for the Danube Strategy"
DCAPC-BMBS - Domain Committee and Annual Progress Conference of the BMBS
ECIS 2012 - ECIS 2012 - 26th Conference of the European Colloid and Interface Society
ESF-EuroGlycoforum - Workshop ot the ESF-EuroGlycoforum-Research Networking Program
ESF-Glycosummit - ESF-EuroGlycoforum RP and Glycosummit
ESSEMAPC 2012 - Earth System Science and Environmental Management Annual Progress Conference 2012
EuroFedLipid - Second European Symposium on Microbial Lipids (FEBS Workshop) - Microbial Lipids: Diversity in Structure and Function
EUROMAR 2012 - EUROMAR 2012 - Magnetic Resonance Conference
Glycosaminoglycans - 20th Symposium on Glycosaminoglycans
Glycosyntheses - Workshop Glycosyntheses
GlycoT Hannover 2012 - 8th International Symposium on Glycosyltransferases - GlycoT Hannover 2012
IC-MAST-2012 - IC-MAST-2012 - 2nd International Conference on Materials and Applications for Sensors and Transducters
IGS-IIGNTT - International Glycomics Symposium: Increasing the Impact of Glycoscience through New Tools and Technologies
KORANET - KORANET Scientic Council Meeting
Plants 2012 - 12th Conference "Influence of abiotic and biotic stresses on properties of plants 2012"
PSP 2012 - Plant and Seaweed Polysaccharides Workshop
SCHRÖDINGER 2012 - Symposium SCHRÖDINGER, 12th Annual European User Meeting
Tomáškovy dny 2012 - XXI. Konference mladých mikrobiologů - Tomáškovy dny 2012
Turkish NMR Meeting - FP7 EAST-NMR Project - Turkish NMR Meeting

Workshop FA-ERC - Workshop "Financial aspects of ERC grants and audits"
Workshop MMQC - Workshop: Modern Methods in Quantum Chemistry
XII. MSMBBCH - XII. Mezioborové setkání mladých biologů, biochemiků a chemiků
XII. PSFCHE - XII. pracovní setkání fyzikálních chemiků a elektrochemiků
XXIII. Biochemický sjezd - XXIII. Biochemický sjezd České společnosti pro biochemii a molekulární biologii a Slovenskej spoločnosti pre biochemiu a molekulárnu biológiu