

# **Chemický ústav SAV**



## **Správa o činnosti organizácie SAV za rok 2011**

Bratislava  
január 2012

## **Obsah osnovy Správy o činnosti organizácie SAV za rok 2011**

1.	Základné údaje o organizácii	1
2.	Vedecká činnosť	3
3.	Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku	14
4.	Medzinárodná vedecká spolupráca	19
5.	Vedná politika	25
6.	Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky v SR	26
7.	Spolupráca s aplikačnou a hospodárskou sférou	33
8.	Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie	35
9.	Vedecko-organizačné a popularizačné aktivity	37
10.	Činnosť knižnično-informačného pracoviska	42
11.	Aktivity v orgánoch SAV	44
12.	Hospodárenie organizácie	46
13.	Nadácie a fondy pri organizácii SAV	47
14.	Iné významné činnosti organizácie SAV	47
15.	Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie SAV	48
16.	Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám	49
17.	Problémy a podnety pre činnosť SAV	50

### ***PRÍLOHY***

<i>A</i>	<i>Zoznam zamestnancov a doktorandov organizácie k 31.12.2011</i>	51
<i>B</i>	<i>Projekty riešené v organizácii</i>	57
<i>C</i>	<i>Publikačná činnosť organizácie</i>	90
<i>D</i>	<i>Údaje o pedagogickej činnosti organizácie</i>	256
<i>E</i>	<i>Medzinárodná mobilita organizácie</i>	258

## 1. Základné údaje o organizácii

### 1.1. Kontaktné údaje

**Názov:** Chemický ústav SAV

**Riaditeľ:** Ing. Miroslav Kooš, DrSc.

**Zástupca riaditeľa:** RNDr. Ján Gajdoš, PhD.

**Vedecký tajomník:** RNDr. Desana Lišková, PhD.

**Predseda vedeckej rady:** Ing. Ján Tkáč, DrSc.

**Člen snemu SAV:** Ing. Miroslav Kooš, DrSc.

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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			
<b>Celkový počet zamestnancov</b>	130	49	81	13	18	119	116,67	86,88
<b>Vedeckí pracovníci</b>	70	35	35	10	11	59	61,11	57,98
<b>Odborní pracovníci VŠ</b>	19	5	14	1	5	19	15,9	10,9
<b>Odborní pracovníci ÚS</b>	31	5	26	2	2	31	31	18
<b>Ostatní pracovníci</b>	10	4	6	0	0	10	8,66	0

*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2011 (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 31.12.2011 (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 31.12.2011)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
<b>Muži</b>	10	25	1	3	10	13	12
<b>Ženy</b>	0	35	0	0	1	18	16

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
<b>Muži</b>	3	5	2	2	1	5	7	3	4
<b>Ženy</b>	7	6	5	5	5	11	12	3	2

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2011

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
<b>Muži</b>	50,1	49,0	50,0
<b>Ženy</b>	47,5	46,1	47,4
<b>Spolu</b>	48,5	47,6	48,4

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

V roku 2011 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 poslednej akreditácie vedeckých organizácií SAV v roku 2007 zaradený do skupiny A\*, čo svedčí o vysokej kvalite vedecko-výskumnej práce a ostatných zohľadňovaných ukazovateľov. Podobne pri evalvácii pracovísk začiatkom roka 2009 sa ústav umiestnil medzi najlepšími pracoviskami II. odd. vied SAV.

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 2011

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2011 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
<b>1. Vedecké projekty, ktoré boli r. 2011 financované VEGA</b>	19	4	151646	151646	16523
<b>2. Projekty, ktoré boli r. 2011 financované APVV</b>	2	3	25346	25346	29145
<b>3. Projekty OP ŠF</b>	2	5	103875	103875	272180
<b>4. Projekty centier excelentnosti SAV</b>	1	0	40101	26734	-
<b>5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)</b>	0	0	-	-	-

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Zoznam domácich projektov podaných v roku 2011

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2011	-	11	8
2. Projekty výziev OP ŠF podané r. 2011	Bratislava	0	1
	Regióny	0	0
3. Projekty výziev FM EHP podané r. 2011	-	0	0

## 2.2. Medzinárodné projekty

### 2.2.1. Medzinárodné projekty riešené v roku 2011

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2011

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2011 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 6. a 7. rámcového programu EÚ	0	4	-	-	43154
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	10	-	-	-
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	1	0	1500	1500	-
4. Bilaterálne projekty	4	2	15624	15624	6000
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTs, APVV,...)	0	12	-	-	38400
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 2011

Tabuľka 2d Podané projekty 7. RP EÚ v roku 2011

	A	B
<b>Počet podaných projektov v 7. RP EÚ</b>	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 pokračoval v roku 2011 v implementácii 7 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, 2 vo výzve OPVaV-2008/4.1/01-SORO a 1 vo výzve OPVaV-2009/2.1/01-SORO) schválených v minulých rokoch. V roku 2011 bol schválený nový projekt vo výzve OPVaV-2011/4.2/07-SORO, kde CHÚ SAV participuje ako partner.

Čerpanie bude zamerané najmä na vybavenie pracoviska prístrojmi, ktoré sú nevyhnutné pre udržanie unikátneho postavenia Chemického ústavu SAV v oblasti výskumu glykomiky. Vzhľadom na dlhodobé podfinancovanie kapitálovými prostriedkami je infraštruktúra ústavu nedostatočná. Doteraz sa tento nedostatok čiastočne riešil spolupracou so zahraničnými pracoviskami, avšak z dlhodobého hľadiska takýto stav nie je akceptovateľný.

## 2.3. Najvýznamnejšie výsledky vedeckej práce

### 2.3.1. Základný výskum

**Využitie uhlíkových nanorúrok pri príprave biosenzorov** (Šefčovičová, Filip, Vikartovská, Bučko, Gemeiner, Tkáč)

Biokompatibilný bionanokompozit pozostávajúci z uhlíkových nanorúrok (CNT) a kyseliny hyalurónovej (HA) bol použitý na konštrukciu senzora na stanovenie NADH (kofaktor viac ako 500 dehydrogenáz). CNT-HA bionanokompozit vykazoval vyššiu citlivosť stanovenia, stabilnejšiu odozvu voči NADH a vyššiu selektivitu v porovnaní s tradične využívaným bionanokompozitom na báze CNT dispergovaným v chitozáne. Následne bol tento bionanokompozit využitý pri príprave biosenzora na monitorovanie D-sorbitolu počas jeho konverzie na L-sorbózu (prekurzor prípravy vitamínu C). Takto pripravený robustný biosenzor po integrácii do prietokového systému vykazoval vysokú reprodukovateľnosť analýzy vzoriek s veľmi krátkym časom odozvy. CNT boli úspešne použité aj na prípravu 3-D bionanokompozitu priamym zmiešaním baktérií *Gluconobacter oxydans* s CNT. Následne bol tento bionanokompozit využitý na konštrukciu mikrobiálneho biosenzora na stanovenie etanolu s najvyššou dosiaľ publikovanou hodnotou citlivosti pre mikrobiálny biosenzor. Tento koncept je využiteľný pri príprave lacných biopalivových článkov ako i pri aplikačnom využití biosenzora na monitorovanie bioprosesov. Blokový grant SAV-FM-EHP-2008-04-04, COST CM8T D43 a VEGA 1/0335/10 (**Chemický ústav SAV**).

FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana - TOMČÍK, Peter - GEMEINER, Peter - TKÁČ, Jan. A hyaluronic acid dispersed carbon nanotube electrode used for a mediatorless NADH sensing and biosensing. In *Talanta*, 2011, vol. 84, p. 355-361. (3.722 - IF2010). ISSN 0039-9140. (ADCA)

ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - GEMEINER, Peter - VIKARTOVSKÁ, Alica -

PÄTOPRSTÝ, Vladimír - TKÁČ, Ján. High performance microbial 3-D bionanocomposite as a bioanode for a mediated biosensor device. In *Electrochemistry Communications*, 2011, vol. 13, p. 966-968. (4.282 - IF2010). ISSN 1388-2481. (ADCA)

ŠEFČOVIČOVÁ, Jana - FILIP, Jaroslav - TOMČÍK, Peter - GEMEINER, Peter - BUČKO, Marek - MAGDOLEN, Peter - TKÁČ, Ján. A biopolymer-based carbon nanotube interface integrated with a redox shuttle and a D-sorbitol dehydrogenase for robust monitoring of D-sorbitol. In *Microchimica Acta*, 2011, vol. 175, p. 21-30. (2.578 - IF2010). ISSN 0026-3672. (ADCA)

### 2.3.2. Aplikačný typ

#### **Filmy z xylánu obsahujúce pozitívne a negatívne iónovymenné skupiny ako potencionálne obalové materiály (Šimkovic)**

Xylán z bukového dreva bol chemicky modifikovaný s trimetylamónium-2-hydroxypropylovou (TMAHP), 2-hydroxypropylsulfonátovou (HPS) ako aj sulfátovou (S) skupinou. Cieľom bolo pripraviť biologicky degradovateľné filmy s porovnateľnými mechanickými a optickými vlastnosťami ako majú filmy pripravené zo syntetických polymérov. Pevnosť v ťahu nameraná pre TMAHP-filmy (64.3 MPa) bola väčšia ako u HPS-filmov (26.7 MPa), zatiaľ čo Youngov modul pružnosti bol väčší u HPS-filmov (3350 MPa) ako u TMAHP-filmov (1770 MPa). Zmesné filmy vykazovali hodnoty blízke prímeru uvedených derivátov. Filmy pripravené zo sulfátovaného xylánu nerozpustného vo vode s nízkym stupňom substitúcie (0.07) mali väčšie hodnoty pevnosti v ťahu (140 MPa) ako aj Youngov modul pružnosti (5390 MPa) ako TMAHP- a HPS-filmy. S-filmy s vyšším stupňom substitúcie (0.20), ktoré boli vodorozpustné, vykazovali menšie hodnoty pevnosti v ťahu (3.4 MPa) ako aj Youngovho modulu pružnosti (160 MPa). Zdá sa pravdepodobné, že lepšie mechanické vlastnosti vo vode nerozpustných častí S-filmov sú spôsobené intermolekulovými vodíkovými väzbami nesubstituovaných častí xylánových reťazcov v porovnaní s rozpustnými časťami S-filmov s vyšším stupňom substitúcie. Adhézia medzi rozpustnými a nerozpustnými časťami S-filmov sa javí ako dôvod zlepšených mechanických vlastností. Projekt VEGA 2/0087/11 (Chemický ústav SAV).

ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHĽIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Xylan sulphate films. In *Carbohydrate Polymers*, 2011, vol. 86, p. 214-218. (3.463 - IF2010). ISSN 0144-8617. (ADCA)

ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHĽIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Positively and negatively charged xylan films. In *Carbohydrate Polymers*, 2011, vol. 83, p. 769-775. (3.463 - IF2010). ISSN 0144-8617. (ADCA)

### 2.3.3. Medzinárodné vedecké projekty

#### **Antikoagulačný účinok a chemická charakterizácia glykokonjugátov z *Lythrum salicaria* L. (Capek)**

*Lythrum salicaria* sa využíva už mnoho storočí v tradičnej medicíne pri liečení najmä porúch krvného zrážania, ochorení kŕčových žíl, rôznych venózných a iných ochorení. Za účelom zistenia aktívnej zložky, ovplyvňujúcej procesy krvácania, boli uskutočnené najskôr extrakcie z kvetov rôznymi organickými rozpúšťadlami a testované na koagulačnú aktivitu. Ich výsledky však boli negatívne. Až alkalická extrakcia kvetov rastliny a viacnásobné purifikačné procesy poskytli polysacharid-fenolický konjugát, ktorý vykazoval koagulačné aktivity. V experimentoch in vitro a ex vivo sa zistilo, že *Lythrum* glykokonjugát inhiboval zrážanie krvi, avšak v in vivo teste vykázal opačný efekt, t.j. prokoagulačný, čo je v súlade s využívaním tejto drogy v tradičnej medicíne počas stáročí. Chemická analýza *Lythrum* glykokonjugátu potvrdila prítomnosť karbohydrátov, proteínov a fenolických látok. Okrem toho, konjugát vykázal pomerne širokú distribúciu molekulových



hmotností. Kombináciou vhodných chromatografických metód bol glykokonjugát rozdelený na 12 frakcií. Chemické analýzy ukázali, že všetky purifikované frakcie obsahovali polysacharidy, proteíny a fenolické látky, podobne ako pôvodný konjugát, len sa líšili vo vzájomných pomeroch konštitučných zložiek. Následná séria biologických in vitro testov vyšpecifikovala tri frakcie s výraznou antikoagulačnou aktivitou, dve frakcie s miernou prokoagulačnou, zatiaľ čo ostatné neboli vôbec aktívne. Výsledky testov odhalili, že antikoagulačná aktivita purifikovaných frakcií bola tri až štyrikrát vyššia ako pôvodný glykokonjugát. Projekt APVV SR-PL-0045-09 (bilaterálny) **(Chemický ústav SAV)**.

PAWLACZYK, Izabela - CAPEK, Peter - CZERCHAWSKI, Leszek - BIJAK, Joanna - LEWIK-TSIRIGOTIS, Marta - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An anticoagulant effect and chemical characterization of *Lythrum salicaria* L. glycoconjugates. In *Carbohydrate Polymers*, 2011, vol. 86, p. 277-284. (3.463 - IF2010). ISSN 0144-8617. (ADCA)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

<b>PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ</b>	<b>A Počet v r. 2011/ doplňky z r. 2010</b>	<b>B Počet v r. 2011/ doplňky z r. 2010</b>	<b>C Počet v r. 2011/ doplňky z r. 2010</b>
<b>1. Vedecké monografie vydané v domácich vydavateľstvách</b> (AAB, ABB, CAB)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>2. Vedecké monografie vydané v zahraničných vydavateľstvách</b> (AAA, ABA, CAA)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách</b> (BAB, ACB)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách</b> (BAA, ACA)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách</b> (ABD, ACD)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách</b> (ABC, ACC)	<b>3 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách</b> (BBB, ACD)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách</b> (BBA, ACC)	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>9. Vedecké a odborné práce v časopisoch evidovaných v Current Contents</b> (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, Bddb)	<b>57 / 0</b>	<b>0 / 0</b>	<b>1 / 0</b>
<b>10. Vedecké a odborné práce v nekarentovaných časopisoch</b> (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	<b>3 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)</b>			
<b>a/ recenzovaných, editované</b> (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	<b>14 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>b/ nerecenzovaných</b> (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	<b>5 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>

<b>12. Vydané periodiká evidované v Current Contents</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>13. Ostatné vydané periodiká</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)</b>	<b>4/0</b>	<b>0/0</b>	<b>0/0</b>
<b>15. Vedecké práce uverejnené na internete (GHG)</b>	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>
<b>16. Preklady vedeckých a odborných textov (EAJ)</b>	<b>0 / 0</b>	<b>0 / 0</b>	<b>0 / 0</b>

*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

<b>OHLASY</b>	<b>A</b> <b>Počet v r. 2010/ doplňky z r. 2009</b>	<b>B</b> <b>Počet v r. 2010/ doplňky z r. 2009</b>
<b>Citácie vo WOS (1.1, 2.1)</b>	1676 / 83	0 / 0
<b>Citácie v SCOPUS (1.2, 2.2)</b>	122 / 2	0 / 0
<b>Citácie v iných citačných indexoch a databázach (9, 10)</b>	0 / 0	0 / 0
<b>Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)</b>	6 / 2	0 / 0
<b>Recenzie na práce autorov z organizácie (5, 6, 7, 8)</b>	0 / 0	0 / 0

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

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

## 2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

<b>Prednášky a vývesky na medzinárod. vedeckých podujatiach</b>	107 (AFFE, AFFA, AFG, AFHA)
<b>Prednášky a vývesky na domácich vedeckých podujatiach</b>	17 (z toho 12 AFHA a AFHB)

## 2.6. Vyžiadané prednášky

### 2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BIELY, Peter. Metamorphosis of chemists into yeast researchers. In *39<sup>th</sup> Annual Conference on Yeasts, 3-6 May 2011, Smolenice, Slovakia*. (vyžiadaná plenárna prednáška - Dr. Biely)

Abstract published: In *Programme and Abstracts: 39<sup>th</sup> Annual Conference on Yeasts, 3-6 May 2011, Smolenice, Slovakia*. Bratislava: Institute of Chemistry of SAS, 2011, p. 33. (AFFA)

HRICOVÍNI, Miloš. Strategies for analysis: Molecular modeling. In *2nd European Intensive Program on Proteoglycans Glycosaminoglycans, May 19-28, 2011, Paris, France*. (ERASMUS programme) (vyžiadaná prednáška - Dr. Hricovíni)

HRICOVÍNI, Miloš. Structure of heparin oligosaccharides. Reconciliation of theoretical and experimental NMR data. In *16<sup>th</sup> European Carbohydrate Symposium, July 3-7, 2011, Sorrento - Naples, Italy*. (vyžiadaná prednáška - Dr. Hricovíni)

Abstract published: In *Eurocarb-eBook-Abstract: 16<sup>th</sup> European Carbohydrate Symposium, July 3-7, 2011, Sorrento - Naples, Italy*. Sorrento, Italy: University of Naples Federico II, 2011. p. 28. (AFE)

PAULOVÍČOVÁ, Ema. Fungálne polysacharidové imunomodulátory pri atopii. In *IX. Martinské dni imunológie, 6.-8. apríl 2011, Martin*. (vyžiadaná prednáška - Dr. Paulovičová E.)

Abstrakt publikovaný: In *Klinická imunológia a alergológia*. Zväzok 21, číslo 1, (2011), s. 43. (AFFA)

PETRUŠ, Ladislav - VOJTECH, Michal - PETRUŠOVÁ, Mária - PÄTOPRSTÝ, Vladimír - SMRTIČOVÁ, Hana - PRIBULOVA, Božena - LATTOVÁ, Erika - PERREAULT, Hélène - VALENT, Ivan. The impact of stereochemistry on the competitive five- vs. six-membered ring

closure reactions. In *12th Bratislava Symposium on Saccharides, 19-23 June 2011, Smolenice, Slovakia*. (vyžiadaná prednáška - doc. Petruš)

Abstract published: In *Program and Abstracts: 12th Bratislava Symposium on Saccharides, 19-23 June 2011, Smolenice, Slovakia*. Bratislava: Institute of Chemistry of SAS, 2011, p. 53. (AFFA)

SASINKOVÁ, Vlasta. Využitie FT-IR spektroskopie na charakterizáciu modifikovaných polysacharidov. In *Molekulová spektroskopie 2011 - VII. setkání uživatelů, 10.-12. října 2011, Seč, Česká republika*. (vyžiadaná prednáška - Dr. Sasinková)

STRATILOVÁ, Eva - ŘEHULKA, Pavel. Mass spectrometry and SDAP for identification of PR-proteins/type I allergens from plants. In 5th Meeting on Chemistry & Life, September 14-16, 2011, Brno, Czech Republic. (vyžiadaná prednáška - Dr. Stratilová)

Abstract published: In *Chemické listy*. Vol. 105 (S), (2011), p. s987. ISSN 0009-2770. (AFE)

URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MØRKEBERG KROGH, Kristian B.R. - HOFF, Tine - BIELY, Peter. Structural basis for substrate recognition by GH30 glucuronoxylanases. In *12th Bratislava Symposium on Saccharides, 19-23 June 2011, Smolenice, Slovakia*. (vyžiadaná prednáška - Dr. Biely)

Abstract published: In *Program and Abstracts: 12th Bratislava Symposium on Saccharides, 19-23 June 2011, Smolenice, Slovakia*. Bratislava: Institute of Chemistry of SAS, 2011, p. 38. (AFFA)

## **2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach**

MATULOVÁ, Mária - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna - UHLIARIKOVÁ, Iveta. NMR spektroskopia a jej využitie v biochemickej diagnostike. In *16. Kolokvium o dedičných metabolických poruchách, 15. december 2011, Detská fakultná nemocnica v Bratislave, Bratislava*. (vyžiadaná prednáška - Dr. Matulová)

PAULOVÍČOVÁ, Ema. In situ rozpoznávanie natívnych štruktúr mimikujúcich antigénne faktory *C. albicans*. In *Konferencia DNA analýza III (Beckman Coulter Slovenská republika s.r.o. a Sigma-Aldrich spol. s r.o.), 22. jún 2011, Bratislava*. (vyžiadaná prednáška - Dr. Paulovičová E.)

PAULOVÍČOVÁ, Ema. Imunobiologicky aktívne glykány patogénnych kvasiniek. In *Program odborných seminárov na Katedre mikrobiológie a virológie PriF UK, 15. apríl 2011, Bratislava*. (vyžiadaná prednáška - Dr. Paulovičová E.)

PAULOVÍČOVÁ, Lucia. Oligomanozid-BSA konjugáty - imunogénnosť a indukcia kandidacídnej aktivity. In *Konferencia DNA analýza III (Beckman Coulter Slovenská republika s.r.o. a Sigma-Aldrich spol. s r.o.), 22. jún 2011, Bratislava*. (vyžiadaná prednáška - Dr. Paulovičová L.)

## **2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách**

BIELY, Peter. Diversity of microbial endoxylanases. In *Seminar at Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, Aas, Norway, 22 August 2011*. (vyžiadaná prednáška - Dr. Biely)

BIELY, Peter. Emergence of novel biocatalysts: carbohydrate esterases. In *Seminar at Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, Aas, Norway, 31 August 2011*. (vyžiadaná prednáška - Dr. Biely)

BIELY, Peter. Hemicellulolytic alpha-glucuronidases. In *Seminar at Department of Chemistry,*

*Biotechnology and Food Science, Norwegian University of Life Sciences, Aas, Norway, 31 August 2011. (vyžiadaná prednáška - Dr. Biely)*

BIELY, Peter. Properties and application of xylanolytic enzymes. In *Seminar at Institute of Chemical Engineering, Vienna University of Technology, Vienna, Austria, 12 January 2011.*

BIELY, Peter. Diversity of microbial endoxylanases. In *Seminar at Institute of Chemical Engineering, Vienna University of Technology, Vienna, Austria, 12 January 2011.*

BIELY, Peter. Accessory xylanolytic enzymes – current state of art. In *Seminar at Institute of Chemical Engineering, Vienna University of Technology, Vienna, Austria, 12 January 2011.*

*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 2011**

### **2.7.1. Vynálezy, na ktoré bol udelený patent**

### **2.7.2. Prihlásené vynálezy**

### **2.7.3. Predané licencie**

### **2.7.4. Realizované patenty**

*Finančný prínos pre organizáciu SAV v roku 2011 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 61 vedeckých prác v časopisoch je 58 (95 %) publikovaných v periodikách evidovaných v Current Contents, pričom na 20 % z týchto prác sú autormi len pracovníci ústavu, 25 % je publikovaných v spolupráci s domácimi a 55 % so zahraničnými spoluautormi.

Impakt faktor periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.284 do 8.354, pričom jeho priemerná hodnota je 2.787, čo spolu s úhrnným počtom 1891 citácií (z toho 1759 vo WOS) možno považovať za cenný kvalitatívny ukazovateľ.

V porovnaní s minulým rokom, počet karentovaných publikácií klesol o 1 (58 verzus 59). Tento pokles do určitej miery spôsobila nadmerná administratívna záťaž mnohých vedeckých pracovníkov v súvislosti s implementáciou 7 projektov OP ŠF a prípravou 2 ďalších, čo znížilo ich kapacitu na vedeckú prácu. Priemerný impakt faktor však vzrástol o 0.309, pričom jeho hodnota (2.787) presahuje, s výnimkou jednej (u ktorej je nižší len o 0.012), hodnoty medián impakt faktora pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 1.808 pre Chemistry Organic, 2.799 pre Biochemistry & Molecular Biology, 1.186 pre Polymer Science, 2.380 pre Microbiology, 1.874 pre Biotechnology & Applied Microbiology a 2.130 pre Chemistry Physical). Celkový počet citácií vzrástol oproti vlaňajšku o 240 (1891 verzus 1621), pričom sa výrazne zvýšil najmä počet citácií vo WOS - o 316 (1759 verzus 1443), k čomu prispela aj skutočnosť, že WOS v tomto roku zaznamenával už aj niektoré knižné citácie. Počet citácií v SCOPUS mierne poklesol - o 27 (124 verzus 151).

Na tomto mieste treba vysloviť uznanie Predsedníctvu SAV a pracovníckam Ústrednej knižnice SAV, že sa aj v roku 2011 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 reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií resp. pozvanými prednáškami na zahraničných univerzitách a iných vedecko-výskumných inštitúciách a vedecko-odborných podujatiach.

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri získavaní grantov. Úhrne sa riešilo 55 projektov - z toho 36 domácich (VEGA - 23, APVV - 5, OP ŠF - 7, Centrá excelentnosti SAV - 1) a 20 zahraničných (4 projekty 7. RP, 8 projektov COST, 2 projekty ESF, 1 projekt 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 ca 793.5 tisíc € [z toho je ca 125.5 tisíc € zo zahraničia, 232.8 tisíc € z domácich projektov, 376.0 tisíc € z OP ŠF a 59.2 tisíc € je podpora medzinárodnej spolupráce z národných zdrojov (MVTS a APVV) na projekty, 7. RP EÚ a COST], čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť prevádzku pracoviska. V budúcom roku sa očakáva výrazné čerpanie finančných prostriedkov z OP ŠF, kde pridelené prostriedky predstavujú ca 8 mil. €.

Ústav trvale venuje pozornosť uplatneniu dosiahnutých výsledkov v priemyselnej praxi (účasť na výstavách, priame kontakty s výrobnými podnikmi a privátnymi 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 akreditáciách zaradený do najvyššej skupiny skupiny A - naposledy pri štvrtej akreditácii v roku 2007 do novoutvorenej najvyššej skupiny A\*.

### 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 2011

Forma	Počet k 31.12.2011				Počet ukončených doktorantúr v r. 2011					
	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
<b>Interná zo zdrojov SAV</b>	4	17	2	5	1	3	1	0	0	0
<b>Interná z iných zdrojov</b>	0	0	0	0	0	0	0	0	0	0
<b>Externá</b>	0	0	0	0	0	0	0	0	0	0
<b>Spolu</b>	4	17	2	5	1	3	1	0	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
<b>Počet</b>	0	0	0	0	0	0

#### 3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2011 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Slavomíra Husárová	interné štúdium hrazené z prostriedkov	9 / 2007	9 / 2011	4.1.18 fyzikálna chémia	RNDr. Mária Matulová PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU



	SAV					
Jana Korcová	interné štúdium hradené z prostriedkov SAV	9 / 2006	1 / 2011	4.1.22 biochémia	Ing. Slavomír Bystrický DrSc., Chemický ústav SAV	Prírodovedecká fakulta UK
Lucia Paulovičová	interné štúdium hradené z prostriedkov SAV	9 / 2006	2 / 2011	4.1.22 biochémia	Ing. Slavomír Bystrický DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Michal Raab	interné štúdium hradené z prostriedkov SAV	9 / 2006	5 / 2011	4.1.18 fyzikálna chémia	Ing. Igor Tvaroška DrSc., Chemický ústav SAV	Prírodovedecká fakulta UK

*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	Fakulta chemickej a potravinárskej technológie STU
makromolekulová chémia	4.1.19	
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

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Peter Biely, DrSc. (biochémia)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta UK)	Mgr. Slavomíra Husárová, PhD. (IIb)
doc. Ing. Vladimír Farkaš, DrSc. (mikrobiológia)	doc. Ing. Ladislav Petruš, DrSc. (Prírodovedecká fakulta UK)	Mgr. Jana Korcová, PhD. (IIb)
Ing. Peter Gemeiner, DrSc. (biotechnológie)		Ing. Lucia Paulovičová, PhD. (IIb)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Michal Raab, PhD. (IIb)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		Ing. Ján Tkáč, DrSc. (I)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		Mgr. Slavomíra Husárová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Ema Paulovičová, CSc. (mikrobiológia)		Mgr. Jana Korcová, PhD. (PhD., Prírodovedecká fakulta UK)
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		Ing. Lucia Paulovičová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		Ing. Michal Raab, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Mária Vršanská, PhD. (biochémia)		Ing. Ján Tkáč, DrSc. (DrSc., Slovenská Akadémia Vied)

**3.5. Údaje o pedagogickej činnosti**

Tabuľka 3f Prednášky a cvičenia vedené v roku 2011

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
<b>Počet prednášateľov alebo vedúcich cvičení</b>	4	2	4	0
<b>Celkový počet hodín v r. 2011</b>	51	13	200	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

<b>1.</b>	<b>Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác</b>	12
<b>2.</b>	<b>Počet vedených alebo konzultovaných diplomových a bakalárskych prác</b>	13
<b>3.</b>	<b>Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)</b>	18
<b>4.</b>	<b>Počet školených doktorandov (aj pre iné inštitúcie)</b>	26
<b>5.</b>	<b>Počet oponovaných dizertačných a habilitačných prác</b>	12
<b>6.</b>	<b>Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce</b>	10
<b>7.</b>	<b>Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác</b>	2
<b>8.</b>	<b>Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác</b>	7
<b>9.</b>	<b>Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách</b>	1

**3.6. Iné dôležité informácie k pedagogickej činnosti**

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

V priebehu roka 2011 sa na CHÚ SAV celkom skolilo 23 doktorandov denného štúdia z toho 7 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 biochémia a biotechnológia. 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 2011 úspešne obhájili doktorandskú dizertačnú prácu štyria doktorandi a traja z nich sa stali zamestnancami CHÚ s termínovanými pracovnými zmluvami.

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2011, sa dá predpokladať,

že v roku 2012 by mali doktorandskú dizertačnú prácu obhajovať 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 2011 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

##### 39. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 95 účastníkov, 03.05.-06.05.2011

Vedecký program konferencie bol rozdelený do troch sekcií: 1. Genetics and molecular biology of yeasts; 2. Cell biology and medical mycology a 3. Biotechnology.

Začiatok konferencie bol venovaný životnému jubileu RNDr. P. Bieleho, DrSc. a jeho prednáške „Metamorphosis of chemists into yeast researcher“ v rámci prednášok „honourable lecture“, týkajúcej sa českých a slovenských kvasinkárov. Prednáška Dr. K. H. Wolfeho z Írska „Yeast comparative genomics and after math of polyploidization“ bola venovaná pamiatke Dr. A. Kockovej-Kratochvílovej, zakladateľke Komisie pre kvasinky.

Celkovo odznelo 27 prednášok z toho 1 prednáška bola hradená občianskym združením NATURA a 8 prednášok sponzorovala Komisia pre kvasinky. Prezentovaných bolo 47 plagátových vývesiek. V rámci sekcie „Poster highlights“ odznelo 10 krátkych prednášok mladých vedeckých pracovníkov.

Počet účastníkov: 95, z toho 50 zahraničných.

##### 12. Bratislavské sympóziu o sacharidoch, Kongresové centrum, Smolenice, 67 účastníkov, 19.06.-23.06.2011

Sympóziu organizoval Chemický ústav SAV v spolupráci so združením Slovcarb. Zúčastnili sa ho odborníci z 19 krajín (Anglicko, Austrália, ČR, Dánsko, Fínsko, Francúzsko, Grécko, Holandsko, Írsko, Japonsko, Južná Afrika, Kanada, Maďarsko, Nemecko, Poľsko, Rusko, Španielsko, USA a Slovensko). Hlavnou témou konferencie bola chémia, biochémia, biológia, biotechnológia ako aj medicínske a enviromentálne aplikácie mono-, oligo-, polysacharidov a glykokonjugátov. Najnovšie trendy z týchto oblastí výskumu boli prezentované formou plenárnych (7) a pozvaných (25) prednášok a plagátových vývesiek (15). Viac ako tretina účastníkov sympózia tvorili doktorandi a mladí tvoriví pracovníci. Prvá časť sympózia bola venovaná významnému životnému jubileu RNDr. Petra Bieleho, DrSc. - ako uznanie jeho celoživotným vynikajúcim vedeckým výsledkom. Vedecký i spoločenský program sympózia nepochybne prispel k posilneniu existujúcich kontaktov ale aj k nadviazaniu nových spoluprác.

Počet účastníkov: 67, z toho 40 zahraničných.

##### 63. Zjazd chemikov, Hotel Hutník, Tatranské Matliare, 372 účastníkov, 05.09.-09.09.2011

Na podujatí odznelo v 6 odborných sekciách spolu 92 prednášok a vystavených bolo 187 plagátových vývesiek.

##### 7. Medzinárodné sympóziu: Štruktúra a funkcia koreňov, Nový Smokovec, Vysoké Tatry, 293 účastníkov, 05.09.-09.09.2011

Konferencia priniesla nové poznatky v študovanej problematike s významným zameraním na ich využitie pri fytoremediáciách životného prostredia, fytofortifikácii dôležitých poľnohospodárskych plodín a ochrane rastlín. Spolu bolo prezentovaných 102 prednášok a posterov.

Počet účastníkov: 293, z toho 240 zahraničných.

##### EAST NMR Miting, Bratislava, 28 účastníkov, 08.09.-09.09.2011

Na podujatí prezentovali svoje práce z oblasti NMR spektroskopie medzinárodne uznávaní, ako aj mladí pracovníci z viacerých krajín EÚ. Celkovo odznelo 10 prednášok.

Počet účastníkov: 28, z toho 12 zahraničných.

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2012 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**

40th Annual Conference on Yeasts/40. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 90 účastníkov, 08.05.-11.05.2012, (Emília Breierová, 02/ 59410241, 02/ 59410262, chememi@savba.sk)

2nd EAST-NMR Young Investigators' Meeting/2. EAST-NMR stretnutie mladých výskumníkov, Bratislava, 16.05.-18.05.2012, (Miloš Hricovíni, 02/ 59410323, 02/ 59410256, chemilos@savba.sk)

**4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií**

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	5	14	1

**4.2. Členstvo a funkcie v medzinárodných orgánoch**

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

RNDr. Peter Biely, DrSc.

Československá spoločnosť mikrobiologická (funkcia: člen výboru Komisie pre kvasinky)  
International Academy of Wood Science (funkcia: volený člen (Fellow of IAWS))  
International Commission for Yeasts of the International Union of Microbiological Societies (funkcia: člen)  
Management Committee COST Action 868 a COST Action FP0602 (funkcia: národný zástupca)

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 865 - Working Groups 2 and 4 a COST Action CM0701 (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)

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 Košíš, 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)

RNDr. Mária Vršanská, PhD.

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

**4.3. Účast' 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
Biely Peter	Austrian Science Fund/Lise Meintner Program	1
Katrlík Jaroslav	Croatian Science Foundation	2
Kooš Miroslav	Grantová agentura ČR	1
	National Science Council of Taiwan	1
Petruš Ladislav	COST CMST a TD	23
Tkáč Ján	Sciex-NMSch (Švajčiarsko-slovenský štipendijný fond)	1
Tvaroška Igor	Grantová agentura ČR	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. Z MVTs vyplynula tiež dohoda o záštite nad doktorandským štúdiom „cotutele“ medzi Chemickým ústavom SAV, STU v Bratislave a Université Blaise Pascal v Clermont-Ferrand (Francúzsko) s témou dizertačnej práce „NMR štúdium metabolizmu baktérií izolovaných z vody oblakov: úloha baktérií v chémii atmosféry“, ktorá bola v novembri úspešne obhájená (Mgr. Husárová).

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

V rámci MVTs (COST Action D43) sa v období 19.9.2011–16.10.2011 uskutočnil vedecko-výskumný pobyt Dr. Georgija Yordanova z Faculty of Chemistry, University of Sofia, Bulharsko v rámci COST Action D43 (lab. Dr. Gemeinera a Ing. Katríka). Cieľom bolo skúmanie interakcie medzi plazmovými proteínmi a koloidnými polymérnymi nosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR). Pripravené koloidné polybutylkyanoakrylátové nanočastice dispergované vo vodných roztokoch dvoch rôznych povrchovo aktívnych látok, polysorbát 80 a Pluronic F68. Príslušné disperzie boli použité na štúdium interakcie medzi koloidné nanočastice a plazmatickými bielkovinami (albumín a fibrinogén) SPR zariadením Reichert SR7000DC. Po vhodnom teoretickom zhodnotení dosiahnutých výsledkov sa očakáva získanie množstva informácií o skúmaných interakciách, ktoré môžu byť veľmi dôležité pre návrh koloidných nosičov pre ciele liečiv. Na základe získaných výsledkov sa očakáva ďalšia spolupráca s hosťiteľskou inštitúciou v oblasti sledovania vzájomného pôsobenia nanočastíc a rôznych biologických makromolekúl. Táto spolupráca bude v rámci COST Action CM1101 (06/2011–05/2015) a možné je aj spoločné zapojenie do iných medzinárodných projektov. Zverejnenie výsledkov vo vhodnom vedeckom časopise sa očakáva po analýze získaných výsledkov pomocou rôznych teoretických modelov. Dr. Yordanov predniesol prednášku s názvom "Colloidal nanoparticles for drug delivery: basic concepts and future perspectives".

V období 9.10.2011–8.11.2011 sa uskutočnil vedecko-výskumný pobyt doktoranda Gianluca Accogliho z University of Bari "Aldo Moro", Taliansko. Pobyt inicioval prof. Salvatore Desantis z Laboratory of Histology and Anatomy, Faculty of Veterinary Medicine, University of Bari "Aldo Moro", ktorý navštívil CHÚ SAV 11.10.2011. Pobyt bol zameraný na vývoj a testovanie metódy sledovania špecifickej exprese glykokonjugátov ako markerov funkčného stavu systému na celých bunkách, v závislosti od rôznych fáz pohlavného cyklu, zrenia a rôzneho materiálu (folikuly, vajíčka). Merania boli prevádzané technikou lektínových microarray použitím microarray spottera SpotBot® 3 Personal Microarrayer Protein Edition a microarray skenera InnoScan 710. Dosiahnuté výsledky vyzerajú perspektívne a po prevedení referenčných experimentov pomocou lektínovej histochemie sa zväží ich publikovanie vo vhodnom vedeckom časopise. Deklarovaný bol obojstranný záujem o pokračovanie kooperácie aj na projektovej úrovni a o oficiálne nadviazanie spolupráce medzi University of Bari a CHÚ SAV. Host' predniesol prednášku s názvom "The glycoconjugates changes as markers of functional status in a variety of systems in both normal and experimental conditions".

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

vyplývala návšteva talianskych partnerov na našich pracoviskách a návšteva našich pracovníkov v Pize.

V rámci MVTS (COST Action FA0905) sa naviazala spolupráca s pracoviskom Institut National Polytechnique de Lorraine, Nancy, France (Dr. Tibault Sterckeman). Následne bol podaný a schválený bilaterálny projekt APVV SK-FR-0020-11 - Vplyv znečistenia pôdy na štruktúru a funkciu koreňa rastlín (Effect of soil contaminants on root structure and function).

*Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.*

*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.*

## 5. Vedná politika

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria obsah domácich i zahraničných projektov riešených na pracovisku. Pozornosť sa venuje aj cielenému výskumu realizovanému prostredníctvom hospodárskych zmlúv, kontraktov a plnením dohodnutých záväzkov v rámci zmluvnej spolupráce. Značná časť riešiteľskej kapacity ústavu sa venuje 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, INTAS, Európskeho sociálneho fondu a iných fondov a nadácií na podporu vedeckého výskumu. V rokoch 2008–2011 pribudla ešte významná účasť na nových výzvach OP ŠF OPVaV 2.1. a 4.1. ako aj FM EHP.

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 sídlilacimi 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 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 dvoch 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 vzťahu chemickej štruktúry a antitusického účinku rastlinných substancií, ktoré predstavujú potenciálne pomocné prípravky vo fytoterapii kašľa.

**Zhodnotenie:** Výsledkom spolupráce je 5 publikácií, 4 zborníkové práce 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 3 prednášky.

**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 projektu VEGA - Ústav patologickej anatómie

**Začiatok spolupráce:** 2010

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

**Zhodnotenie:** Výsledkom spolupráce je podanie spoločného APVV projektu.

**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 a 1 poster.

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK

**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca - Katedra fyzikálnej a

teoretickej chémie

**Začiatok spolupráce:** 2009

**Zameranie:** Štúdium kinetiky cyklizačných reakcií.

**Zhodnotenie:** Výsledkom spolupráce je 1 publikácia.

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK

**Druh spolupráce (spoločné pracovisko alebo iné):** Riešenie spoločného projektu VEGA - Katedra mikrobiológie a virológie

**Začiatok spolupráce:** 2007

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

**Zhodnotenie:** Výsledkom spolupráce je 1 prednáška.

**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 galaktoglukománových oligosacharidov vo vývinových procesoch a obrane rastlín.

**Zhodnotenie:** Výsledkom spolupráce sú 2 publikácie a 6 príspevkov 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 slúži pre potreby základného výskumu, na pedagogické účely ako aj základné servisné merania.

**Zhodnotenie:** Chemický ústav sa podieľal na výstupoch združeného pracoviska 2 pôvodnými vedeckými prácami a 3 príspevkami na vedeckých konferenciách.

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK

**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné pracovisko NC NMR, spoluúčasť na riešení projektu ŠPVV - Katedra organickej chémie

**Začiatok spolupráce:** 2005

**Zameranie:** Dobudovanie špičkového laboratória so zameraním na nukleárnu magnetickú rezonanciu.

**Zhodnotenie:** Projekt bol úspešne ukončený záverečnou obhajobou v septembri 2011.

**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 NC NMR, spoluúčasť na riešení projektu ŠPVV - Katedra organickej chémie

**Začiatok spolupráce:** 2005

**Zameranie:** Dobudovanie špičkového laboratória so zameraním na nukleárnu magnetickú rezonanciu.

**Zhodnotenie:** Projekt bol úspešne ukončený záverečnou obhajobou v septembri 2011.

**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:** Dohoda o spolupráci pri riešení vedecko-výskumných úloh, výchove nových absolventov a doktorandov a využívaní 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 cereálií.

**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 pripravovaná publikácia.

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

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

**Začiatok spolupráce:** 2006

**Zameranie:** Štúdium enzýmových transglykozylačných reakcií.

**Zhodnotenie:** Výsledkom spolupráce je preddiplomová prax.

**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.

**Zhodnotenie:** Výsledkom spolupráce je 1 kapitola v knihe a 1 prednáška.

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

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

**Začiatok spolupráce:** 2006

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

**Zhodnotenie:** Výsledkom spolupráce je 1 publikácia v 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 slúži pre potreby základného výskumu, na pedagogické účely ako aj základné servisné merania.

**Zhodnotenie:** Chemický ústav sa podieľal na výstupoch združeného pracoviska 2 pôvodnými vedeckými prácami a 3 príspevkami na vedeckých konferenciách.

**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU  
**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné pracovisko NC NMR, spoluúčasť na riešení projektu ŠPVV, Ústav analytickej chémie, Oddelenie NMR a hmotnostnej spektrometrie  
**Začiatok spolupráce:** 2005  
**Zameranie:** Dobudovanie špičkového laboratória so zameraním na nukleárnu magnetickú rezonanciu.  
**Zhodnotenie:** Projekt bol úspešne ukončený záverečnou obhajobou v septembri 2011.

**Názov univerzity/vysokej školy a fakulty:** Fakulta elektrotechniky a informatiky TUKE  
**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné pracovisko NC NMR, spoluúčasť na riešení projektu ŠPVV  
**Začiatok spolupráce:** 2005  
**Zameranie:** Dobudovanie špičkového laboratória so zameraním na nukleárnu magnetickú rezonanciu.  
**Zhodnotenie:** Projekt bol úspešne ukončený záverečnou obhajobou v septembri 2011.

**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 je 1 kapitola, 1 zborníková práca a 3 postre.

**Názov univerzity/vysokej školy a fakulty:** Fakulta biotechnológie a potravinárstva SPU  
**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca - Katedra fyziológie živočíchov  
**Začiatok spolupráce:** 2011  
**Zameranie:** Experimentálne stanovenie cytokínov metódou ELISA.  
**Zhodnotenie:** Výsledkom spolupráce je príprava spoločnej publikácie.

**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 1 publikácia.

**Názov univerzity/vysokej školy a fakulty:** Univerzita T. Bati, Zlín, Česká Republika  
**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca - Fakulta technologická, Ústav inženýrství ochrany životního prostředí  
**Začiatok spolupráce:** 2008  
**Zameranie:** Bakteriálna produkcia exopolysacharidov.  
**Zhodnotenie:** Výsledkom spolupráce je 1 publikácia.

**Názov univerzity/vysokej školy a fakulty:** Univerzita Karlova v Praze, Česká republika  
**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca - 1. Lékařská fakulta, Ústav imunologie a mikrobiologie, Prionová laboratoř  
**Začiatok spolupráce:** 2011  
**Zameranie:** Mikroskopické vyhodnotenie ELISPOT metódy systémom AxioImager.  
**Zhodnotenie:** Výsledkom spolupráce je príprava spoločnej publikácie.

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

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

**Začiatok spolupráce:** 2011

**Zameranie:** Polysacharidy rias a húb.

**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 potravín a biotechnológií

**Začiatok spolupráce:** 2006

**Zameranie:** 1. Vplyv stresu na pigmentotvorné kvasinky; 2. Mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z potravinárskych výroby; 3. Identifikácia kvasiniek molekulárno-biologickou metódou.

**Zhodnotenie:** Výsledkom spolupráce sú: 1. 1 kapitola v knihe a 1 prednáška; 2. 2 postre a 1 odoslaná publikácia; 3. 1 poster.

**Názov univerzity/vysokej školy a fakulty:** Jihočeská Univerzita, České Budějovice, ČR

**Druh spolupráce (spoločné pracovisko alebo iné):** Zmluvná spolupráca (mediústavná dohoda) a spoluúčasť na riešení projektu COST - Zemědělská fakulta, Katedra rostlinné výroby a agroekologie

**Začiatok spolupráce:** 2009

**Zameranie:** Příprava polysacharidov s antioxidačnými vlastnosťami a stanovenie fenolových látok pomocou HPLC.

**Zhodnotenie:** Výsledkom spolupráce je 1 odoslaná publikácia.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca. Podaný spoločný projekt APVV - Vedeckovýskumná základňa SZU, Oddelenie mikrobiológie

**Začiatok spolupráce:** 2010

**Zameranie:** Štúdium polysacharidových konjugátov.

**Zhodnotenie:** Experimentálne vakcinácie polysacharidovými konjugátmi, odbery krvi a imunokompetentných orgánov.

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

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

**Začiatok spolupráce:** 1998

**Zameranie:** Stanovenie štruktúry sacharidových derivátov X-ray technikami.

**Zhodnotenie:** Výsledkom spolupráce je 1 publikácia.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** Bilaterálny projekt

**Začiatok spolupráce:** 2010

**Zameranie:** Fenolické glykokonjugáty liečivých rastlín a ich biologická aktivita

**Zhodnotenie:** Výsledkom spolupráce je 1 publikácia.

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

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

**Začiatok spolupráce:** 2009



**Zameranie:** Glykokonjugáty rias a liečivých rastlín.

**Zhodnotenie:** Výsledkom spolupráce sú 2 publikácie.

**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 odoslaná publikácia.

**Názov univerzity/vysokej školy a fakulty:** Université Blaise Pascal, UMR 6504, Clermont-Ferrand, Francúzsko

**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca - Laboratoire SEESIB, Clermont Université

**Začiatok spolupráce:** 1998

**Zameranie:** Štúdium metabolizmu baktérií izolovaných z oblakov

**Zhodnotenie:** Výsledkom spolupráce sú 2 publikácie, 1 prednáška, spoločný bilaterálny SK-FR projekt, spoločné vedenie doktorandského štúdia.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca

**Začiatok spolupráce:** 2006

**Zameranie:** Štúdium inhibítorov alfa-manozidáz.

**Zhodnotenie:** Výsledkom spolupráce je 1 publikácia a 1 poster.

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

## **6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe**

Diferenciálna diagnostika respiračných kandidóz - detekcia sérových antikandidových izotypových protilátok - pre Oddelenie klinickej imunológie a alergológie, Onkologický ústav Sv. Alžbety, Bratislava.

Spoločné pracovisko s univerzitami/VŠ (fakultami): 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).

Spoločné pracovisko s univerzitami/VŠ (fakultami): 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.

Spoločné pracovisko s univerzitami/VŠ (fakultami): 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. Chemický ústav SAV sa v roku 2011 podieľal na výstupoch združeného pracoviska 6 pôvodnými vedeckými prácami a 7 príspevkami na vedeckých konferenciách.

## **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: Dohoda o spolupráci: Aplikácia a charakterizácia xylanáz (Collaborative Research Agreement: Application and characterization of 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): 2012

Objem získaných prostriedkov v bežnom roku (€): 7486

Stručný opis výstupu/výsledku: Kryštalizácia bakteriálnej xylanázy rodiny GH30 s ligandom, čo viedlo k objasneniu spôsobu účinku enzýmu a jeho špecializácie na hydrolýzu.

Zhodnotenie: 1 publikácia

Názov kontraktu: Izolácia a analýza poľnohospodárskych bioproduktov (Isolation and analysis of agricultural byproducts)

Partner(i): Procter & Gamble Technical Centres Limited, Longbenton, Newcastle upon Tyne, England

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2010

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2011

Objem získaných prostriedkov v bežnom roku (€): 22917

Stručný opis výstupu/výsledku: Komparatívna analýza poľnohospodárskych odpadov a štúdium extrakcie polysacharidov.

Zhodnotenie: Financovanie postdoktorandského pobytu (Ing. Alžbeta Čízová, PhD.)

Názov kontraktu: Využitie lignocelulózy (Lignocellulose utilization)

Partner(i): Annikki GmbH, Austria

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2010

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2011

Objem získaných prostriedkov v bežnom roku (€): 15000

Stručný opis výstupu/výsledku: Prešetrenie možností enzýmovej hydrolýzy xylánu izolovaného zo slamy.

Zhodnotenie: Projekt sa úspešne ukočil.

### **7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe**

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

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

Testovanie softvéru Mass Frontier 4.0 k interpretácii fragmentácie organických zlúčenín.

Odberateľ: HighChem, Ltd., Bratislava

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

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: CAFFÉ MONDO, s.r.o., Bratislava;  
finančný prínos: 210 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: ENGE, s.r.o., Bernolákovo;  
finančný prínos: 900 €

## 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 -	člen

	chémia	
Ing. Miloš Hricovíni, PhD.	Rada Národného centra NMR	člen
doc. Ing. Ladislav Petruš, DrSc.	Rada APVV pre prírodné vedy, pracovná skupina pre prírodné vedy 2 - chémia	člen
Ing. Igor Tvaroška, DrSc.	Rada Národného centra NMR	člen

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

## 9. Vedecko-organizačné a popularizačné aktivity

### 9.1. Vedecko-popularizačná činnosť

#### 9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ <sup>1</sup>	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Peter Biely, DrSc.		TL	Bunkové steny rastlín	Quark. Roč. XVII, č. 2 (2011), s. 18-19. ISSN 1335-4000	2011
Ing. Peter Gemeiner, DrSc.		TL	Bunka ako chemická továreň	Quark. Roč. XVII, č. 10, (2011), s. 8-9. ISSN 1335-4000.	15.10.2011
Ing. Peter Gemeiner, DrSc.		TL	Slovenské hlavičky	Život. Vydanie 50/2011, s. 14-15. ISSN 0139-6323.	10.12.2011
Ing. Jaroslav Katrlík, PhD.	Bučko Marek, Filip Jaroslav	RO	Bunka ako chemická továreň	Slovenský rozhlas, Rádio Slovensko, relácia Nočná pyramída	25.6.2011
doc. Ing. Ladislav Petruš, DrSc.	Biely Peter, Tvaroška Igor, Magdolen Peter, Tkáč Ján, Katrlík Jaroslav, Filip Jaroslav, Neščáková Zuzana, Farkaš Pavol, Pilišiová Ružena, Medovarská Izabela, Paulovičová Lucia, Zelko Ivan	TV	Cukry – elixír večnej mladosti?	Slovenská televízia, relácia Spektrum vedy	29.6.2011
doc. Ing. Ladislav Petruš, DrSc.	Soňa Koželová	RO	Ako škodia dioxíny	Slovenský rozhlas, Rádio Devín	14.2.2011
Ing. Elena Sláviková, PhD.	Dan Himič	TL	Kráľovstvo kvasiniek	Život. Vydanie 43/2011, s. 38-39. ISSN 0139-6323	21.10.2011

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

#### 9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	14	tlač	11	TV	1
rozhlas	2	internet	0	exkurzie	0

publikácie	0	multimediálne nosiče	1	dokumentárne filmy	0
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## 9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
39. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	03.05.-06.05.2011	95
12. Bratislavské sympóziu o sacharidoch	medzinárodná	Kongresové centrum, Smolenice	19.06.-23.06.2011	67
63. Zjazd chemikov	medzinárodná	Hotel Hutník, Tatranské Matliare	05.09.-09.09.2011	372
7. Medzinárodné sympóziu: Štruktúra a funkcia koreňov	medzinárodná	Nový Smokovec, Vysoké Tatry	05.09.-09.09.2011	293
EAST NMR Míting	medzinárodná	Bratislava	08.09.-09.09.2011	28

## 9.3. Účasť na výstavách

Názov výstavy: 38. medzinárodný veľtrh chemického, plastikárskeho, gumárskeho a papierárskeho priemyslu „Chemistry Slovakia 2011“

Miesto konania: Bratislava

Dátum: 12.4.2011

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

Názov výstavy: 13. výstava zdravotníctva SLOVMEDICA

Miesto konania: Bratislava, Areál Incheba

Dátum: 22.9.2011

Zhodnotenie účasti: Ústav prezentoval kolekciu vzácných sacharidov, ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta. V tejto súvislosti sa nadväzovali kontakty za účelom získania nových komerčných partnerov. Prezentovala sa tiež zbierka kvasiniek, farebné polysacharidy, chitooligosacharidy, biotechnologické využitie rastlinných kultúr in vitro pre zdravie človeka, vybrané publikácie pracovníkov ústavu a katalóg produktov. Za exponát L(+)-ribóza, syntetický sacharid, ktorý sa v Realizačnom oddelení vyrába na základe tzv. Bílikovej reakcie, získal ústav najvyššie ocenenie - Cenu „Zlatá INCHEBA“.

Názov výstavy: 38. medzinárodná poľnohospodárska a potravinárska výstava AGROKOMPLEX 2011

Miesto konania: Nitra

Dátum: 18.8.2011

Zhodnotenie účasti: Ústav prezentoval kolekciu vzácných sacharidov, ktoré produkuje Realizačné



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

#### 9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	3	1	0

#### 9.5. Členstvo v redakčných radách časopisov

RNDr. Marek Baráth, PhD.

Chemical Papers (funkcia: Assistant Editor)

RNDr. Peter Biely, DrSc.

Yeast Newsletter (funkcia: Associate Editor)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

Ing. Pavol Farkaš, PhD.

Chemical Papers (funkcia: Assistant Editor)

Ing. Peter Gemeiner, DrSc.

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

Biotechnology and Applied Biochemistry (funkcia: člen Editorial Board)

Biotechnology Letters (funkcia: člen Editorial Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Hirsch, DrSc.

Chemical Papers (funkcia: Editorial Manager)

Ing. Miloš Hricovíni, PhD.

Open Glycoscience (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Kooš, 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)

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 2011, Chemický ústav SAV usporiadal Deň otvorených dverí CHÚ SAV (8.11.2011), počas ktorého viacerí pracovníci formou prednášok popularizovali svoju vedecko-výskumnú činnosť. Návštevníci, ktorých počet tento rok bol prekvapujúco veľmi vysoký (224), 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 Gymnázium Ladislava Sáru v Bratislave.

## 10. Činnosť knižnično-informačného pracoviska

### 10.1. Knižničný fond

Tabuľka 10a Knižničný fond

<b>Knižničné jednotky spolu</b>		25489
z toho	knihy a zviazané periodiká	25489
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		5
z toho zahraničné periodiká		5
Ročný prírastok knižničných jednotiek		8
v tom	kúpou	8
	darom	0
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		8

### 10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

<b>Výpožičky spolu</b>		161
z toho	odborná literatúra pre dospelých	12
	výpožičky periodík	76
	prezenčné výpožičky	48
MVS iným knižniciam		17
MVS z iných knižníc		5
MMVS iným knižniciam		0
MMVS z iných knižníc		3
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

### 10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	0
Návštevníci knižnice spolu (bez návštevníkov podujatí)	37

#### 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 €	3858

#### 10.5. Iné informácie o knižničnej činnosti

## **11. Aktivity v orgánoch SAV**

### **11.1. Členstvo vo Výbore Snemu SAV**

Ing. Miroslav Koóš, DrSc.

- člen

### **11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV**

doc. Ing. Ladislav Petruš, DrSc.

- člen Predsedníctva SAV

- člen Vedeckej rady SAV

### **11.3. Členstvo vo vedeckých kolégiách SAV**

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (člen)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Koóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

### **11.4. Členstvo v komisiách SAV**

doc. Ing. Vladimír Farkaš, DrSc.

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Koóš, DrSc.

- Akreditačná komisia SAV (člen)
- 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 (predseda)
- Rozšírené Predsedníctvo grantovej agentúry VEGA (člen)

Ing. Miloš Hricovíni, PhD.

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

Ing. Miroslav Koóš, 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 2011 (posl. uprav.)	Skutočnosť k 31.12.2011 celkom	z toho:	
			z príspevku	z vlastných zdrojov
<b>Kapitálové výdavky</b>	316108	316108	0	316108
<b>Náklady spolu:</b>	3018245	3018245	2046821	971424
z toho:				
- mzdové náklady (účet 521)	1339323	1339323	1132681	206642
- odvody do poisťovní a NÚP (účet 524-525)	422031	422031	389277	32754
- vedecká výchova	154993	154993	154993	0
- náklady na projekty (VEGA, APVT, APVV, ŠPVV, MVTP, ESF a i.)	233303	233303	233303	0
- náklady na vydávanie periodickej tlače	23319	23319	14173	9146

### 12.2. Tržby PO SAV

Tabuľka 12b Tržby PO SAV (v €)

Kategória	Plán na rok 2011	Plnenie k 31.12.2011
<b>Výnosy spolu:</b>	3025285	3025285
z toho:		
- príspevok na prevádzku (účet 691)	2046821	2046821
<b>- vlastné tržby spolu:</b>	856044	856044
z toho:		
- tržby za nájomné	5408	5408
- tržby za riešenie projektov (tuzemských + zahraničných, z účtu 64)	608221	608221



### 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 2011: 30 (10 pre CHÚ, 4 pre iné pracoviská v SR a 16 pre zahraničie). Získané kultúry v roku 2011: 42 (38 samostatne izolovaných a 8 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 1360 € a úspora predstavovala 1680 € (300 € za kmene pre CHÚ a 1380 € 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) (IF2010 = 0.754; súčasný stav naznačuje nárast IF pre rok 2011 na hodnotu 1). 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).

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 2011 cca 198615 € a v porovnaní s rokom 2010 narástli a to aj napriek recesii a celosvetovej finančnej a hospodárskej kríze.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletne analytické a štruktúrne 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 4120 €. Príjmy za rozbor vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely, predstavovali sumu cca 7497 €. 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 2011**

### **15.1. Domáce ocenenia**

#### **15.1.1. Ocenenia SAV**

##### **Biely Peter**

Medaila SAV za podporu vedy  
*Oceňovateľ: Vedecká rada SAV*

##### **Farkaš Vladimír**

Medaila SAV za podporu vedy  
*Oceňovateľ: Vedecká rada SAV*

##### **Farkaš Vladimír**

Významná osobnosť SAV v roku 2011  
*Oceňovateľ: Predsedníctvo SAV*

##### **Gemeiner Peter**

Cena SAV za vedecko-výskumnú činnosť  
*Oceňovateľ: Vedecká rada SAV*

*Opis: Cena udelená kolektívu: Ing. Peter Gemeiner, DrSc. (vedúci kolektívu), Ing. Danica Mislovičová, PhD., Ing. Alica Vikartovská, PhD., Ing. Ján Tkáč, DrSc., Ing. Jozef Nahálka, PhD., Ing. Jaroslav Katrlík, PhD., Ing. Marek Bučko, PhD., Mgr. Jana Šefčovičová, PhD., Dana Žiškova, Radoslava Šályová*

##### **Tvaroška Igor**

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

#### **15.1.2. Iné domáce ocenenia**

##### **Biely Peter**

Pamätná medaila Fakulty chemickej a potravinárskej technológie STU  
*Oceňovateľ: Fakulta chemickej a potravinárskej technológie STU*

##### **Biely Peter**

Rad Ľudovíta Štúra II. triedy  
*Oceňovateľ: Prezident SR*

*Opis: Za mimoriadne zásluhy o rozvoj vedy a šírenie dobrého mena v zahraničí, osobitne v oblasti biotechnológií.*

##### **Bučko Marek**

Diplom za najlepšiu biotechnologickú prácu v odbore biochémie a molekulárna biológia  
*Oceňovateľ: Slovenská spoločnosť pre biochémiu a molekulárnu biológiu a Euro Finance Consulting Slovakia*

##### **Farkašová Erika**

Diplom z 3. Interaktívnej konferencie mladých vedcov 2011  
*Oceňovateľ: Občianske združenie PREVEDA*

**Magdolen Peter**

Zlatá INCHEBA - za exponát: L(+)-ribóza, syntetický sacharid

*Oceňovateľ: Generálny riaditeľ Incheba, a.s. a hodnotiteľská komisia*

*Opis: Cenu získal Chemický ústav SAV na 13. výstave zdravotníctva SLOVMEDICA, 22.-24. september 2011, Bratislava; za pracovisko ju prevzal Ing. Peter Magdolen.*

**Šefčovičová Jana**

Diplom z 3. Interaktívnej konferencie mladých vedcov 2011

*Oceňovateľ: Občianske združenie PREVEDA*

**15.2. Medzinárodné ocenenia**

**Bučko Marek**

Young Researcher Award 2011 - in category Chemical Sciences

*Oceňovateľ: The Visegrad Group Academies*

**Sláviková Elena**

Medaila prof. Františka Patočku

*Oceňovateľ: Československá spoločnosť mikrobiologická*

**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](http://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) Pridelovanie finančných prostriedkov zo ŠR na schválené projekty*

Opätovne apelujeme na včasné pridelovanie schválených finančných prostriedkov zo ŠR na všetky druhy grantových projektov v kalendárnom roku (aj keď v tomto smere už pozorujeme určité zlepšenie), 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 pri príprave rozpočtu na rok 2011, ktorým sa o 40 % navýšili finančné prostriedky na granty akademickej agentúry VEGA.

### *b) Iné problémy pracoviska*

Nedostatok kapitálových finančných prostriedkov neumožnil v roku 2011 výraznejšiu obnovu prístrojového vybavenia v Analytickom oddelení a Realizačnom oddelení. Vzhľadom na morálne a fyzické opotrebovanie niektorých prístrojov musel ústav vynakladať značné úsilie na ich prevádzku a zabezpečenie činnosti. V havarijnom stave je najmä hmotnostný spektrometer (v súčasnosti nefunkčný) a plynová chromatografia. K čiastočnému zlepšeniu situácie došlo v roku 2010 a 2011 vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participuje ako partner. Očakávame, že k výraznému vylepšeniu dôjde až v roku 2012 vďaka finančným prostriedkom (cca 8 mil. €) z dvoch schválených projektov OP ŠF, v ktorých je ústav nositeľom projektu.

V súvislosti s nevyhnutnou obnovou prístrojového a laboratórneho vybavenia, bude v najbližšom období potrebné dofinancovať Zbierku kvasiniek kapitálovými prostriedkami.

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

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

### **Správu o činnosti organizácie SAV spracoval(i):**

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

### **Riaditeľ organizácie SAV:**

.....  
Ing. Miroslav Kooš, DrSc.

**Prílohy****Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2011****Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)**

	<b>Meno s titulmi</b>	<b>Úväzok (v %)</b>	<b>Ročný prepočítaný úväzok</b>
<b>Vedúci vedeckí pracovníci DrSc.</b>			
1.	RNDr. Peter Biely, DrSc.	5	0.28
2.	Ing. Slavomír Bystrický, DrSc.	100	1.00
3.	doc. Ing. Vladimír Farkaš, DrSc.	50	0.50
4.	Ing. Peter Gemeiner, DrSc.	100	1.00
5.	Ing. Ján Hirsch, DrSc.	80	0.80
6.	Ing. Miroslav Kooš, 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
<b>Vedúci vedeckí pracovníci CSc., PhD.</b>			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
<b>Samostatní vedeckí pracovníci</b>			
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.	30	0.50
9.	Ing. Jaroslav Katrlík, PhD.	100	1.00
10.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
11.	Mgr. Juraj Kóňa, PhD.	125	1.25
12.	RNDr. Desana Lišková, PhD.	100	1.00
13.	prof. RNDr. Alexander Lux, CSc.	5	0.01
14.	RNDr. Eva Machová, PhD.	100	1.00
15.	RNDr. Anna Malovíková, PhD.	100	1.00
16.	Ing. Vladimír Mastihuba, PhD.	100	1.00

17.	Ing. Mária Mastihubová, PhD.	100	1.00
18.	RNDr. Mária Matulová, PhD.	100	1.00
19.	Ing. Danica Mislovičová, PhD.	36	0.36
20.	RNDr. Ján Mucha, CSc.	100	1.00
21.	Ing. Jozef Nahálka, PhD.	100	1.00
22.	Ing. Ema Paulovičová, CSc.	100	1.00
23.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
24.	RNDr. Mária Petrušová, PhD.	100	1.00
25.	Ing. Monika Poláková, PhD.	100	1.00
26.	Ing. Elena Sláviková, PhD.	100	1.00
27.	RNDr. Bohumil Steiner, PhD.	100	1.00
28.	Ing. Eva Stratilová, PhD.	100	1.00
29.	Ing. Renáta Vadkertiová, PhD.	100	1.00
30.	Ing. Alica Vikartovská, PhD.	100	1.00
31.	RNDr. Mária Vršanská, PhD.	100	1.00
<b>Vedeckí pracovníci</b>			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Ing. Maroš Bella, PhD.	100	0.25
3.	Ing. Alžbeta Čížová, PhD.	100	1.00
4.	Mgr. Miroslava Ďuranová, PhD.	100	1.00
5.	Ing. Pavol Farkaš, PhD.	100	1.00
6.	Ing. Soňa Garajová, PhD.	100	1.00
7.	Mgr. Filip Holka, PhD.	50	0.13
8.	Mgr. Slavomíra Husárová, PhD.	100	0.33
9.	RNDr. Anna Kákošová, PhD.	50	0.17
10.	RNDr. Karin Kollárová, PhD.	100	1.00
11.	Mgr. Jana Korcová, PhD.	100	1.00
12.	Ing. Zuzana Košťálová, PhD.	100	1.00
13.	RNDr. Ján Kozák, PhD.	100	1.00
14.	Mgr. Stanislav Kozmon, PhD.	10	0.10
15.	RNDr. Erika Lattová, PhD.	100	1.00
16.	Ing. Marián Mazáň, PhD.	100	0.74
17.	Ing. Izabela Medovarská, PhD.	100	1.00
18.	Ing. Júlia Mičová, PhD.	100	1.00
19.	Ing. Marek Nemčovič, PhD.	100	1.00

20.	Mgr. Ivana Nemčovičová, PhD.	100	1.00
21.	Ing. Lucia Paulovičová, PhD.	100	1.00
22.	Ing. Božena Pribulová, PhD.	100	1.00
23.	Ing. Michal Raab, PhD.	129	1.29
24.	doc. Ing. Vojtech Spiwok, PhD.	10	0.10
25.	Mgr. Jana Šefčovičová, PhD.	100	1.00
26.	Ing. Sergej Šesták, PhD.	100	1.00
27.	Ing. Katarína Šuchová, PhD.	100	1.00
28.	Mgr. Ivan Zelko, PhD.	100	1.00
<b>Odborní pracovníci s VŠ vzdelaním</b>			
1.	Bc. Barbora Alföldyová	67	0.20
2.	Ing. Antónia Barlíková	100	1.00
3.	Ing. Viera Bedrichová	100	1.00
4.	Ing. Tomáš Bertók	4	0.02
5.	RNDr. Mária Dzúrová	100	1.00
6.	Ing. Erika Farkašová	100	1.00
7.	Ing. Eva Hrabárová	100	1.00
8.	Mgr. Lenka Kohútová	100	0.17
9.	Ing. Peter Magdolen	100	1.00
10.	Ing. Ema Podobová	100	1.00
11.	PhDr. Eva Riganová	100	1.00
12.	RNDr. Vlasta Sasinková	100	1.00
13.	Ing. Andrea Schenk Mayerová	17	0.09
14.	Ing. Hana Smrtičová	100	1.00
15.	Ing. Jozef Švec	100	1.00
16.	Ing. Jozef Tonka	100	1.00
17.	Ing. Jozef Turjan	100	1.00
18.	RNDr. Iveta Uhliariková	100	1.00
19.	Ing. Silvia Vlčková	100	1.00
<b>Odborní pracovníci ÚSV</b>			
1.	Mária Bednáríková	100	1.00
2.	Alena Bordáčová	100	1.00
3.	Mária Czigárová	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	100	1.00
10.	Beáta Kalivodová	100	1.00
11.	Alžbeta Kanská	100	1.00
12.	Peter Kis	100	1.00
13.	Janka Komačková	100	1.00
14.	Eudovít Kompaník	100	1.00
15.	Jana Köplingerová	100	1.00
16.	Eva Morháčová	100	1.00
17.	Milan Novosad	100	1.00
18.	Nadežda Orthová	100	1.00
19.	Margita Plšková	100	1.00
20.	Emília Rosová	100	1.00
21.	Kvetoslava Sabová	100	1.00
22.	Zdena Smolková	100	1.00
23.	Radoslava Šályová	100	1.00
24.	Alena Šoltésová	100	1.00
25.	Nadežda Šporánková	100	1.00
26.	Oľga Švančarová	100	1.00
27.	Vojtech Tóth	100	1.00
28.	Matej Vaš	100	1.00
29.	Erika Voleková	100	1.00
30.	Scarlett Weinzettlová	100	1.00
31.	Dana Žišková	100	1.00
<b>Ostatní pracovníci</b>			
1.	Antónia Csölleová	100	0.75
2.	Milan Chochlík	73	0.37
3.	Helena Lešťanská	100	1.00
4.	Elena Masarovičová	100	1.00
5.	Eva Pazderová	100	1.00
6.	Miroslav Pír	100	1.00
7.	Margita Schwarzová	100	0.29
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
<b>Samostatní vedeckí pracovníci</b>			
1.	RNDr. Nadežda Kolarova, PhD.	30.4.2011	0.20
<b>Vedeckí pracovníci</b>			
1.	RNDr. Slávka Bekešová, PhD.	31.3.2011	0.25
<b>Odborní pracovníci s VŠ vzdelaním</b>			
1.	Ing. Csilla Mészárosová	31.7.2011	0.25
2.	Ing. Adrián Švancár	28.2.2011	0.17
<b>Ostatní pracovníci</b>			
1.	Ivan Činovský	30.6.2011	0.25

**Zoznam doktorandov**

	Meno s titulmi	Škola/fakulta	Študijný odbor
<b>Interní doktorandi hradení z prostředků SAV</b>			
1.	Mgr. Lucia Achbergerová	Přírodovědecká fakulta UK	4.1.22 biochemia
2.	Ing. Tomáš Bertók	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
3.	Mgr. Miroslava Droppová	Přírodovědecká fakulta UK	4.1.22 biochemia
4.	Ing. Jaroslav Filip	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
5.	Mgr. Anna Fleischhackerová	Přírodovědecká fakulta UK	4.1.22 biochemia
6.	Mgr. Martina Garaiova	Přírodovědecká fakulta UK	4.1.22 biochemia
7.	Ing. Andrej Chyba	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
8.	Mgr. Anikó Illéssová	Přírodovědecká fakulta UK	5.2.25 biotechnologie
9.	Mgr. Martina Maličká	Fakulta chemické a potravinářské technologie STU	4.1.18 fyzikální chemie
10.	Ing. Jana Molnárová	Fakulta chemické a potravinářské technologie STU	5.2.25 biotechnologie
11.	Mgr. Zuzana Neščáková	Přírodovědecká fakulta UK	4.2.7 mikrobiologie
12.	Mgr. Ružena Pilišiová	Přírodovědecká fakulta UK	4.1.22 biochemia
13.	Ing. Alexandra Poturnayová	Fakulta chemické a potravinářské technologie STU	4.1.22 biochemia

14.	Ing. Peter Seč	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
15.	Ing. Andrea Schenk Mayerová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
16.	Mgr. Alena Šedivá	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
17.	Mgr. Mária Šedivá	Prírodovedecká fakulta UK	4.1.22 biochémia
18.	Mgr. Zuzana Šimová	Prírodovedecká fakulta UK	4.1.22 biochémia
19.	Mgr. Klaudia Talafová	Prírodovedecká fakulta UK	4.1.22 biochémia
20.	Mgr. Veronika Virčíková	Prírodovedecká fakulta UK	4.1.22 biochémia
21.	Ing. Zuzana Zemková	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
<b>Interní doktorandi hrazení z iných zdrojov</b>			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
<b>Externí doktorandi</b>			
<i>organizácia nemá externých doktorandov</i>			

## **Príloha B**

### **Projekty riešené v organizácii**

#### **Medzinárodné projekty**

#### **Programy: Medziakademická dohoda (MAD)**

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

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

##### Dosiahnuté výsledky:

##### **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:

#### **Programy: Medziústavná dohoda**

##### **3.) Aplikácia a charakterizácia xylanáz** *(Application and characterization of xylanases)*

**Zodpovedný riešiteľ:** Peter Biely  
**Trvanie projektu:** 1.11.2009 / 30.11.2012  
**Evidenčné číslo projektu:** Collaborative Research Agreement  
**Organizácia je** áno

**koordinátorom projektu:**

**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 2 - Nórsko: 2  
**Čerpané financie:** Novozymes A/S, Bagsvaerd, Denmark: 266 €

Dosiahnuté výsledky:

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

**Zodpovedný riešiteľ:** Peter Capek  
**Trvanie projektu:** 1.6.2011 / 30.9.2013  
**Evidenčné číslo projektu:** Agreement  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** P. Dabrowski, MSc., Eng., DK Analytika, Jelenia Gora  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** DK Analytika, Poland: 6000 €

Dosiahnuté výsledky:

**5.) Izolácia a analýza poľnohospodárskych bioproduktov** (*Isolation and analysis of agricultural byproducts*)

**Zodpovedný riešiteľ:** Zdena Hromádková  
**Trvanie projektu:** 1.10.2010 / 31.10.2011  
**Evidenčné číslo projektu:** Agreement  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Veľká Británia: 1  
**Čerpané financie:** Procter & Gamble Technical Centres Limited, Longbenton, Newcastle upon Tyne, UK: 15358 €

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 accrescimnento 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:

### **Programy: Medzivládna dohoda**

**7.) Fenolické glykokonjugáty z liečivých rastlín vykazujúce antikoagulačnú a antitrombotickú aktivitu** (*Phenolic glycoconjugates from medicinal plants possessing anticoagulant and antiplatelet activities*)

**Zodpovedný riešiteľ:** Peter Capek  
**Trvanie projektu:** 1.1.2010 / 31.12.2011  
**Evidenčné číslo projektu:** SK-PL-0045-09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 2 - Poľsko: 2  
**Čerpané financie:** APVV: 1500 €

Dosiahnuté výsledky:

### **Programy: COST**

**8.) Biotechnická funkcionalizácia obnoviteľných polymérnych materiálov** (*Biotechnical functionalisation of renewable polymeric materials*)

**Zodpovedný riešiteľ:** Peter Biely  
**Trvanie projektu:** 1.5.2006 / 31.3.2011  
**Evidenčné číslo projektu:** COST Action 868  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prof. Georg M. Gübitz, Department of Environmental Biotechnology, Graz University of Technology  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:**

Podpora medzinárodnej spolupráce z národných zdrojov: 1000 €

Dosiahnuté výsledky:

Študovaná bola substrátová špecifita mikrobiálnych sacharidových esteráz (CE), enzýmov podieľajúcich sa na biokonverzii rastlinnej hmoty. Meraním esterázovej aktivity v spriahnutom teste na monoacetylderivátoch 4-nitrofenyl beta-D-xylopyranozidu and 4-nitrofenyl alfa-L-arabinofuranozidu sa zistilo, že acetylxyľanesterázy rodín 1, 4 a 5 v xylopyranozidoch prednostne deacetylujú polohu 2. Tieto enzýmy vykazovali iba nízku špecifickú aktivitu na acetylovaný arabinofuranozid, ale opätovne deacetylovali najrýchlejšie polohu 2. Acetyľesterázy produkované hubami *Trichoderma reesei* a *Penicillium purpurogenum* patriace do nedávno objavenej rodiny 16 deacetylujú xylopyranozid najrýchlejšie polohu 3 a 4, z čoho vyplýva, že v procese degradácie rastlinných hemicelulóz plnia inú úlohu.

BIELY, Peter - MASTIHUBOVÁ, Mária - TENKANEN, Maija - EYZAGUIRRE, Jaime - LI, Xin-Liang - VRŠANSKÁ, Mária. Action of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl glycosides of beta-D-xylopyranose and alfa-L-arabinofuranose. In Journal of Biotechnology, 2011, vol. 151, p. 137-142. (2.970 - IF2010). ISSN 0168-1656. (ADCA)

**9.) Biotechnológie pre skvalitňovanie lignocelulózy** (*Biotechnology for lignocellulose biorefineries*)

<b>Zodpovedný riešiteľ:</b>	Peter Biely
<b>Trvanie projektu:</b>	1.2.2007 / 30.6.2011
<b>Evidenčné číslo projektu:</b>	COST Action FP0602
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Prof. Liisa Viikari, Department of Applied Chemistry and Microbiology, University of Helsinki
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	

Podpora medzinárodnej spolupráce z národných zdrojov: 3000 €

Dosiahnuté výsledky:

Pozornosť bola venovaná novoobjaveným enzýmom degradácie rastlinných xylánov. Xylanáza A fytopatogénnej baktérie *Erwinia chrysanthemi* je enzým špecializovaný na degradáciu glukurónoxylánu. Táto substrátová špecifita je založená na schopnosti enzýmu rozpoznať postranné jednotky 4-O-metyl-D-glukurónovej kyseliny substituujúce hlavný reťazec polysacharidu. Potvrdilo sa to kryštalizáciou enzýmu s aldotetraourónovou kyselinou beta-D-xylopyranozyl-(1?4)-[4-O-metyl-beta-D-glukuronozyl-(1?2)]-beta-D-xylopyranozyl-(1?4)-D-xylóza ako ligandom. Kryštalická štruktúra tohto komplexu sa vyriešila s rozlíšením 1.39 Å. Xylotrióza ligandu sa viaže na subcentrá enzýmu -1, -2 a -3, kým metylglukurónová kyselina viazaná na prostrednú jednotku xylózy sa viaže na enzým prostredníctvom vodíkových väzieb na päť aminokyselín a iónovou väzbou svojej karboxylovej skupiny na pozitívne nabitú guanidíniovú skupinu arginínu Arg293.

URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MORKEBERG KROGH, Kristian B.R. - HOFF, Tine - BIELY, Peter. Structural basis for substrate recognition by *Erwinia chrysanthemi* GH30 glucuronoxylanase. In FEBS Journal, 2011, vol. 278, p. 2105-2116. (3.129 - IF2010). ISSN 1742-464X. (ADCA)

URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MORKEBERG KROGH, Kristian B.R. - HOFF, Tine - BIELY, Peter. Structural basis for substrate recognition by GH30 glucuronoxylanases. In Program and Abstracts: 12th Bratislava Symposium on Saccharides, 19-23 June 2011, Smolenice, Slovakia. Bratislava: Institute of Chemistry of SAS, 2011, p. 38. (AFFA)

VRŠANSKÁ, Mária - ŠUCHOVÁ, Katarína - RYABOVA, Olena - BIELY, Peter. Inverting character of family GH 115 alfa-glucuronidases. In CRESTINI, C. - VIIKARI, L. The Abstract Book: The Final Workshop of COST FP0602: Biotechnology for lignocellulose biorefineries (Italic6), 7-8, September 2011, Viterbo, Italy. Viterbo: Tuscia University, 2011. p. 26. (AFG)

**10.) 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** nie  
**koordinátorom projektu:**  
**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: 4000 €

Dosiahnuté výsledky:

Aktívna účasť Ing. M. Bučka, PhD. na stretnutí Management Committee projektu COST Action CM0701 v rámci konferencie Biotrans 2011 Italy, konanej 2.-6. októbra 2011 na Sicílii. Ing. Bučko sa zúčastnil na rokovaní ohľadom bežnej agendy projektu. Taktiež dohodol ďalšiu spoluprácu s prof. M. D. Mihvilovičom z VUT vo Viedni ohľadom vývoja imobilizovaných celobunkových enzýmov zo skupiny Baeyer-Villigerových monooxygenáz (BVMO) na produkciu prekursorov liečiv a aróm, ktoré sú predmetom vzájomnej spolupráce v rámci projektu COST CM0701 ako aj vyvolaných domácich projektov VEGA1/0335/10 a VEGA 1/0229/12. Taktiež boli prerokované možnosti spolupráce s českou firmou LentiKats a.s. Praha ohľadom využitia priemyselne zavedenej technológie imobilizácie buniek v súvislosti s riešením uvedených projektov VEGA aj projektu aplikovaného výskumu APVV-0302-10.

Pokračovalo sa v experimentálnom výskume imobilizácie rekombinantných baktérií E. coli s nadprodukovanými enzýmami BVMO pomocou enkapsulácie v polyelektrolytových kapsuliach. Bola vyvinutá originálna metodika testovania Baeyer-Villigerových monooxygenáz s využitím rekombinantných buniek E. coli s nadprodukovanou monooxygenázou cyklohexanónu a tiež metodika rozlíšenia medzi inhibičným a toxickým pôsobením substrátu voči bunkám s BVMO technikou CLSM. Kataláza bola koenkapsulovaná s celobunkovou CPMO v PEC kapsuliach čím sa vylepšila katalytickú účinnosť enzýmu. Bol skonštruovaný biosenzor na monitorovanie kyslíka pri BV biooxidáciách využitím polyelektrolytovej komplexácie.

BUČKO, Marek - SCHENKMAYEROVÁ, Andrea - GEMEINER, Peter - VIKARTOVSKÁ, Alica - MIHOVILOVIČ, Marko D. - LACÍK, Igor. Continuous testing system for Baeyer-Villiger biooxidation using recombinant Escherichia coli expressing cyclohexanone monooxygenase encapsulated in polyelectrolyte complex capsules. In Enzyme and Microbial Technology, 2011, vol. 49, p. 284-288. (2.287 - IF2010). ISSN 0141-0229. (ADCA)

BUČKO, Marek - SCHENKMAYEROVÁ, Andrea - GEMEINER, Peter - LACÍK, Igor - CHORVÁT, Dušan Jr. - MIHOVILOVIC, Marko D. Precisely defined encapsulation of biocatalysts for chiral immobilization biotechnology. In MARKOŠ, Jozef. Proceedings of the 38th International Conference of SSCHE, 23-27 May 2011, Tatranské Matliare, Slovakia. Bratislava: Publishing House of Slovak University of Technology, 2011. ISBN 978-80-227-3503-2, p. 217 (AFHA)

BUČKO, Marek - GEMEINER, Peter. Vývoj univerzálnej techniky na imobilizáciu biokatalyzátorov. In Program a zborník abstraktov: Drobnicov memoriál, VI. Ročník, 21.-23. september 2011, Piešťany, Slovensko. Bratislava: Petrus pre Institute of Molecular Physiology and Genetics, 2011. ISBN 978-80-970164-3-2, s. 54. (AFHB)

BUČKO, Marek - SCHENKMAYEROVÁ, Andrea - GEMEINER, Peter - VIKARTOVSKÁ, Alica - MIHOVILOVIČ, Marko D. - LACÍK, Igor. Encapsulation of Baeyer-Villiger monooxygenases in polyelectrolyte complex capsules. In Book of Abstracts: Biotrans 2011 Italy, 10th International Symposium on Biocatalysis, 2-6 October 2011, Giardini Naxos, Italy. Milan: Biotrans, 2011. p. 72. (AFG)

SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - CHORVÁT, Dušan - LACÍK, Igor - MIHOVILOVIC, Marko D. Viability measurements of recombinant E. coli during Baeyer-Villiger monooxygenation. In Programme: 8th European Congress of Chemical Engineering together with ProcessNet-Annual Meeting /1st European Congress of Applied Biotechnology together with 29th DECHEMA's Biotechnology Annual Meeting, 25-29 September 2011, Berlin, Germany. Berlin: EFCE, EFB. p. 37.12. (AFG)

#### **11.) Koloidná chémia a chémia povrchov v nanotechnológii** (*Colloid and interface chemistry for nanotechnology*)

<b>Zodpovedný riešiteľ:</b>	Peter Gemeiner
<b>Trvanie projektu:</b>	30.11.2006 / 30.11.2011
<b>Evidenčné číslo projektu:</b>	COST CM8T D43
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Prof. Peter Kralchevsky, Department of Chemical Engineering, University of Sofia
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	

Podpora medzinárodnej spolupráce z národných zdrojov: 3667 €

#### Dosiahnuté výsledky:

Aktivity boli zamerané na výskum v oblasti biomodifikácie povrchov v mikro- a nanoškále, vývoj lektínových biočipov pre bioanalytické stanovenie glykokonjugátov, štúdium interakcií lektín - glykokonjugát pomocou metódy povrchovej plazmónovej rezonancie (SPR), vývoj biočipov s mikroskopovanými lektínmi pre microarray platformu s fluorescenčnou detekciou a na biosenzory a biopalivové články založené na nanoštruktúrne upravených rozhraniach s použitím enzýmov a mikrobiálnych buniek. V súvislosti s výskumným programom Workgroup 5 projektu COST D43 sa v Oddelení glykobiotechnológie CHÚ SAV uskutočnila krátkodobá (1 mesiac) vedecká stáž (Short Term Scientific Mission - STSM) Dr. Georgia Yordanova z University of Sofia, Bulharsko. Práca bola zameraná na skúmanie interakcií medzi proteínmi plazmy a koloidnými polymérnymi nosičmi liečiv technikou SPR.

Pokračovalo sa aj v spolupráci s partnermi z Ústavu experimentálnej fyziky SAV, Ústavu



molekulárnej biológie SAV, Ústavu molekulárnej fyziológie a genetiky SAV a Lekárskej fakulty UK, ktorá prebieha aj v rámci schváleného projektu VEGA 2/0127/10, a spolupráca s Ústavom molekulárnej fyziológie a genetiky, ktorá prebieha aj v rámci nového projektu APVV-0290-10. Oba tieto projekty úzko súvisia s projektom COST Action CMST D43.

KATRLÍK, Jaroslav - ŠKRABANA, R. - MISLOVIČOVÁ, Danica - GEMEINER, Peter. Binding of d-mannose-containing glycoproteins to D-mannose-specific lectins studied by surface plasmon resonance. In Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, vol. 382, p. 198-202. (2.130 - IF2010). ISSN 0927-7757. (ADCA)

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KATRLÍK, Jaroslav - ŠKRABANA, R. - MISLOVIČOVÁ, Danica - ŠEFČOVIČOVÁ, Jana - BERTÓK, Tomáš - TKÁČ, Ján - GEMEINER, Peter. Lectin and glycan biochips in surface plasmon resonance, microarray and electrochemical formats for medical and pharmaceutical applications. In CABARCOS, E.L. - LAURENTI, M. - RETAMA, J.R. Proceedings: Workshop of COST Action D43 - Functionalized Materials and Interfaces, March 30-April 1, 2011, Madrid, Spain. Madrid: Complutense University of Madrid, 2011, p. 75.

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

<b>Zodpovedný riešiteľ:</b>	Peter Gemeiner
<b>Trvanie projektu:</b>	15.6.2011 / 18.1.2016
<b>Evidenčné číslo projektu:</b>	COST CMST Action CM1101
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Prof. Piotr Warszynski, Institute of Catalysis and Surface Chemistry, Krakow, Poland
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	

Podpora medzinárodnej spolupráce z národných zdrojov: 2333 €

### Dosiahnuté výsledky:

Aktivity boli zamerané na výskum v oblasti vývoja lektínových, glykánových a glykoproteínových biočipov a ich aplikácií v kombinácii s SPR, microarray a elektrochemickou platformou. V súvislosti s týmito aktivitami sa v Oddelení glykobiotechnológie CHÚ SAV uskutočnila krátkodobá (1 mesiac) vedecká stáž Gianlucu Accogliho z University of Bari "Aldo Moro", Taliansko pod odborným vedením Ing. Jaroslava Katrlíka, PhD. a Ing. Petra Gemeinera, DrSc. Stáž bola zameraná 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). Merania boli prevádzané technikou lektínových microarray biočipov použitím microarray spottera SpotBot® 3 Personal Microarrayer Protein Edition a microarray skenera InnoScan 710.

Pokračovalo sa v spolupráci s partnermi z Ústavu experimentálnej fyziky SAV, Ústavu molekulárnej biológie SAV, Ústavu molekulárnej fyziológie a genetiky SAV a Lekárskej fakulty

UK, ktorá prebieha aj v rámci schváleného projektu VEGA 2/0127/10, a spolupráca s Ústavom molekulárnej fyziológie a genetiky, ktorá prebieha aj v rámci nového projektu APVV-0290-10 so začiatkom riešenia v roku 2011. Oba tieto projekty úzko súvisia s projektom COST CM1101. Počas riešenia projektu bol s partnerom zo Srbska (Institute for the Application of Nuclear Energy (INEP), University of Belgrade) podaný spoločný projekt „Lektínové biočipy pre charakterizáciu glykánových štruktúr proteínov IGF systému ako nástroj pre výskum, diagnostiku a terapiu kolorektálneho karcinómu“ v rámci výzvy APVV - bilaterálna spolupráca Slovensko-Srbsko 2011, zameraný na lektínové biočipy, ktorý je v hodnotení. Jeho náplň úzko súvisí s projektom COST CM1101.

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

<b>Zodpovedný riešiteľ:</b>	Zdena Hromádková
<b>Trvanie projektu:</b>	1.8.2009 / 31.5.2013
<b>Evidenčné číslo projektu:</b>	COST Action FP0901
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Prof. Stefan Willför, Wood and Paper Chemistry, Abo Akademi University
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	

Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

#### Dosiahnuté výsledky:

Vo vode rozpustné pektínové polysacharidy z tekvice olejnej boli testované na antitusickú aktivitu skúmanú ako efekt kyseliny citrónovej na kašeľový reflex vyvolaný u morčiat a reaktivitu dýchacích ciest hladkého svalstva v in vivo podmienkach v porovnaní s kodeínom. Výsledky ukázali, že antitusická aktivita pektínových polysacharidov je ovplyvnená ich molekulovými a štrukturálnymi vlastnosťami. Kašeľ potlačujúca účinnosť väčšiny testovaných polysacharidov bola porovnateľná alebo dokonca vyššia ako u kodeínu.

Séria kyslých polysacharidov bola izolovaná z biomasy tekvice olejnej šesťstupňovou extrakciou horúcou vodou, EDTA a roztokmi HCl a NaOH. Chemické a spektroskopické analýzy ukázali, že prvé štyri frakcie tvoria čiastočne esterifikované metyl- a acetylované pektíny s rôznymi podielmi ramnogalakturonanových (RG) oblastí, ktoré sú vetvené postranými reťazcami obsahujúcimi galaktóza a arabinózu. Alkalicky extrahované polysacharidy obsahovali menšie množstvo pektínu vedľa hemicelulóz, ktoré prevládali v poslednej frakcii. Pomocou NMR techník boli v prečistenom kyselinou extrahovanom pektíne jednoznačne stanovené rezonancie voľných a metyl-esterifikovaných zvyškov kyseliny galakturónovej.

Z listov *F. sachalinensis* bol izolovaný použitím EDTA pektínový polysacharid. Táto frakcia obsahuje RG spolu s homogalakturonanom. Niektoré zvyšky kyseliny galakturónovej boli methoxylované a bočné reťazce boli viazané ako bloky galaktánu a arabinogalaktánu. Polysacharid vykazoval výraznú radikál-zhášajúcu aktivitu.

Dvojstupňová extrakcie bola použitá ako metóda, ktorou sa pripravili z pšeničných otrúb vodorozpustné arabinoxylánové frakcie. Chemické a spektroskopické analýzy ukázali v prvej frakcii prítomnosť arabinoxylánu kontaminovaného (1<sup>?</sup>3,1<sup>?</sup>4)-beta-glukánom a arabinogalaktánom, zatiaľ čo druhá frakcia obsahovala až 95% arabinoxylánu. Zistila sa pozitívna korelácia medzi celkovým obsahom fenolov, bielkovín a radikál-zhášajúcimi aktivitami meranými metódami DPPH a FRAP. Frakcia, ktorá neobsahovala proteíny mala najvyššiu schopnosť zhášať radikály (najmä OH) pochádzajúce z K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> iniciátora. Frakcia extrahovaná 0.5% NaOH vykazovala podstatne vyššiu imunomodulačnú aktivitu ako imunogénny polysacharid PMII.

Špaldové plevy zbavené extraktívnych látok boli podrobené sekvenčnej extrakcii pomocou acetátového pufru (pH 5,4) a roztokov alkálií. Štruktúra polysacharidov bola objasnená pomocou NMR. Zistilo sa, že reťazce (1 $\rightarrow$ 4) viazaných beta-D-Xylp jednotiek sú rôzne substituované na O-3 a/alebo O-2,3 s alfa-L-Araf skupinami. Všetky polysacharidové frakcie obsahujú fenolické látky a vykazujú významnú radikál-zhášajúcu aktivitu, čo poukazuje na ich možné použitie ako nové prírodné antioxidanty.

NOSÁLOVÁ, Gabriela - PRISENŽŇÁKOVÁ, Ľubica - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Suppressive effect of pectic polysaccharides from Cucurbita pepo L. var. Styriaca on citric acid-induced cough reflex in guinea pigs. In Fitoterapia, 2011, vol. 82, p. 357-364. (1.899 - IF2010). ISSN 0367-326X. (ADCA)

MALOVÍKOVÁ, Anna - SROKOVÁ, Iva - RYCHLÁ, Lyda - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - HIRSCH, Ján - KOŠŤÁLOVÁ, Zuzana - EBRINGEROVÁ, Anna. A structure/function relationship study of modified pectins. In ŘÁPKOVÁ, R. - ČOPÍKOVÁ, J. - ŠÁRKA, E. In ŘÁPKOVÁ, Radmila - ČOPÍKOVÁ, Jana - ŠÁRKA, Evžen. Proceedings of the 7th International Conference on Polysaccharides-Glycoscience, November 2-4, 2011, Prague, Czech Republic. Prague: Czech Chemical Society, 2011. ISBN 978-80-86238-90-6. p. 111-114. (AEC)

HROMÁDKOVÁ, Zdenka - KOŠŤÁLOVÁ, Zuzana - HIRSCH, Ján. Structural features of pectic polysaccharide from the laves of Fallopia sachalinensis. In ŘÁPKOVÁ, R. - ČOPÍKOVÁ, J. - ŠÁRKA, E. In ŘÁPKOVÁ, Radmila - ČOPÍKOVÁ, Jana - ŠÁRKA, Evžen. Proceedings of the 7th International Conference on Polysaccharides-Glycoscience, November 2-4, 2011, Prague, Czech Republic. Prague: Czech Chemical Society, 2011. ISBN 978-80-86238-90-6. p. 134-136. (AEC)

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HROMÁDKOVÁ, Z. - PAULSEN, B.S. - POLOVKA, M. - EBRINGEROVÁ, A. - KOŠŤÁLOVÁ, Z. Structural features of two heteroxylan polysaccharide fractions from wheat bran with anti-complementary and antioxidant activities. In Book of Abstracts: Polysaccharides as source of advanced and sustainable products: 2nd International Polysaccharide Conference EPNOE 2011, 29 August-2 September 2011, Wageningen, Netherland. Wageningen: Wageningen Academic Publishers, 2011. p. 8. (AFG)

HROMÁDKOVÁ, Z. - KOŠŤÁLOVÁ, Z. Identification of structure and antioxidant activity of polysaccharides from spelt chaff. In Program and Abstracts: 12th Bratislava Symposium on Saccharides, 19-23 June 2011, Smolenice, Slovakia. Bratislava: Institute of Chemistry of SAS, 2011, p. 59. (AFFA)

HROMÁDKOVÁ, Z. Structural characteristics of the water-soluble arabinoxylans from the spelt chaff. In CRESTINI, C. - WILLFOR, S. The Abstract Book: The Workshop of COST FP0901, 7-8 September 2011, Viterbo, Italy. Viterbo: Tuscia University, 2011. p. 24. (AFG)

#### **14.) 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** nie  
**koordinátorom projektu:**  
**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:

V rastlinách *Arabidopsis* sa zistilo, že distribúcia Cd (kadmium) závisí od dĺžky trvania stresu z kadmia. V súvislosti s uvedeným štúdiom bola vyvinutá tiež nová rýchla metóda na prípravu a rezanie preparátov z tenkých koreňov, ako má napr. *Arabidopsis*. Uvedená metóda sa uplatnila aj v nasledujúcom štúdiu výskytu špecifických pletív v koreni. Tvorba suberínovej lamely v koreni *Noccea caerulescens* nebola ovplyvnená Cd, v *Brassica juncea* sa však tvorila bližšie ku koreňovému apexu v porovnaní s Cd variantom, čo môže mať za následok efektívnejšiu translokáciu Cd v *N. caerulescens*. Cadmium negatívne ovplyvňovalo dĺžku koreňov a tvorbu biomasy *B. juncea*, čo sa neprejavilo u *N. caerulescens*. Zistilo sa tiež, že Si (kremík) môže regulovať translokáciu Cd do nadzemných častí rastlín. Kremík totiž zvýšil translokáciu Cd do nadzemných častí *B. napus* v porovnaní s *B. juncea*.

KOLLÁROVÁ, Karin - ZELKO, Ivan - KUČEROVÁ, Danica - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Silicon and cadmium effect on *Brassica juncea* and *Brassica napus*. In LUX, Alexander - MARTINKA, Michal - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Programme & Proceedings: 7th International Symposium - Structure and Function of Roots, 5-9 September 2011, Nový Smokovec, High Tatras, Slovakia. Bratislava: Mgr. Pavol Cibulka, Copycentrum PACI, 2011. ISBN 978-80-89257-33-1. p. 92-93. (AFHA)

KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Distribution of cadmium in plants protected with galactoglucomannan oligosaccharides. In LUX, Alexander - MARTINKA, Michal - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Programme & Proceedings: 7th International Symposium - Structure and Function of Roots, 5-9 September 2011, Nový Smokovec, High Tatras, Slovakia. Bratislava: Mgr. Pavol Cibulka, Copycentrum PACI, 2011. ISBN 978-80-89257-33-1. p. 100-101. (AFHA)

VATEHOVÁ, Zuzana - KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. Influence of galactoglucomannan oligosaccharides on mung bean root development. In LUX, Alexander - MARTINKA, Michal - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Programme & Proceedings: 7th International Symposium - Structure and Function of Roots, 5-9 September 2011, Nový Smokovec, High Tatras, Slovakia. Bratislava: Mgr. Pavol Cibulka, Copycentrum PACI, 2011. ISBN 978-80-89257-33-1. p. 196-197. (AFHA)

ZELKO, Ivan - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - KUČEROVÁ, Danica - VATEHOVÁ, Zuzana - HENSELOVÁ, Mária - LUX, Alexander. Comparison of suberin lamellae development in two cadmium accumulating species. In LUX, Alexander - MARTINKA, Michal - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Programme & Proceedings: 7th International Symposium - Structure and Function of Roots, 5-9 September 2011, Nový Smokovec, High Tatras, Slovakia. Bratislava: Mgr. Pavol Cibulka, Copycentrum PACI, 2011. ISBN 978-80-89257-33-1. p. 220. (AFHA)

ZELKO, Ivan - LUX, Alexander - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - MARTINKA, Michal - STERCKEMAN, Thibault. Rapid method for free-hand cutting of samples of thin roots. In LUX, Alexander - MARTINKA, Michal - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - LIŠKOVÁ, Desana. Programme & Proceedings: 7th International Symposium - Structure and Function of Roots, 5-9 September 2011, Nový Smokovec, High Tatras, Slovakia. Bratislava: Mgr. Pavol Cibulka, Copycentrum PACI, 2011. ISBN 978-80-89257-33-1. p. 219. (AFHA)

KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - VATEHOVÁ, Zuzana - ZELKO, Ivan - LIŠKOVÁ, Desana. Detection of cadmium distribution in Arabidopsis plants. In Book of Abstracts: Second Annual Conference: Cost Action FA0905 - Mineral Improved Crop Production for Healthy Food and Feed, 23-26 November 2011, Venice, Italy. Parma: Università degli studi di Parma, 2011. p. 22. (AFG)

**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, United Kingdom  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:**

Dosiahnuté výsledky:

**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 inštitúcií:** 0  
**Čerpané financie:**

Podpora medzinárodnej spolupráce z národných zdrojov: 1660 €

Dosiahnuté výsledky:

Jedným z hlavných cieľov EMAR projektu je finančná podpora doktorandov a mladých

pracovníkov pri účasti na EUROMAR konferenciách a pre nich organizovaných letných školách. Dalšími cieľmi sú posilnenie, rozvoj a objavenie nových oblastí použitia magnetickej rezonancie a efektívny prenos vedomostí cez národné hranice zapojením Národných NMR spoločností. Hlavný impakt projektu je dosahovaný cez EUROMAR konferencie.

Tento rok sa konala EUROMAR 2011 Magnetic Resonance Conference (21-25 August 2011, Frankfurt am Main, Germany) a zo Slovenska nebol podporený žiadny študent. Z laboratória NMR CHÚ SAV sa na nej zúčastnili Dr. Matulová, Dr. Hricovíni a Dr. Husárová. NMR laboratórium na CHÚ SAV je aj riešiteľom 7RP EAST NMR projektu, v rámci ktorého sa organizuje 2. EAST-NMR stretnutie mladých výskumníkov (2nd EAST-NMR Young Investigators' Meeting, 16-18 May 2012, Bratislava). Na jeho spolufinancovanie z EMAR je prísľúbených 5000 Euro.

Publikačná činnosť nie je cieľom EMAR projektu. Avšak účasť na ňom umožnila nadviazanie nových kontaktov a spolupráce.

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

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

Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

#### **Dosiahnuté výsledky:**

Dr. Mucha sa zúčastnil konferencie ISABS-Translačná medicína a lekárska genetika, ktorá bola spojená s pracovným stretnutím členov projektu ESF-EuroGlycoforum RNP v téme „Glykozylácia proteínov v diagnostike a terapii“ (19-21. jún 2011, Chorvátsko, Bol). Konferenciu poriadala Chorvátska Akadémia Vied a Umenia za finančnej podpory ESF. Prvýkrát bola do vedeckého programu, ktorý predstavoval najmä oblasť genetiky a genomiky v humánnej medicíne a diagnostike, zaradená aj nová oblasť - úloha glykozylácie v diagnostike a terapii s dôrazom na glykobioinformatiku a využitie glyko-biomarkerov. Na pracovnom stretnutí bola diskutovaná aj téma možného zapojenia slovenskej glyko-vedy do európskych programov, zvlášť v období po dobudovaní prístrojovej infraštruktúry z projektov ŠF EÚ.

Dr. Mucha, ako člen výboru sa zúčastnil 3rd Annual Steering Committee - projekt ESF EuroGlycoforum Research Network Programme (23. august 2011, University of Natural Sciences and Life Sciences (BOKU), Viedeň. Témou stretnutia bola kontrola vynakladania príspevkov z rozpočtu projektu na poriadané glyko-orientované semináre, konferencie a pracovné stretnutia, diskutovali sa pravidlá ich ďalšieho udeľovania. Prijala sa dohoda o podpore prezentácii výsledkov glykovýskumu na konferenciách hlavne v EÚ. Diskutovala sa aj téma podpory glyko-bioinformatiky najmä návrh a status pripravovaného projektu pre štandardizáciu výsledkov glykovýskumu a organizovanie glyko-seminárov na internete.

#### **Programy: 7RP**

**18.) Zlepšenie prístupu a servisu pre užívateľov NMR z východnej Európy za účelom vytvorenia koordinovanej pan-Európskej komunity umožňujúcej spoluprácu vo výskume a**

**na podporu technologického pokroku** (*Enhancing access and services to East European users towards an efficient and coordinated Pan-European pool of NMR capacities to enable global collaborative research & boost technological advancements (EAST-NMR)*)

**Zodpovedný riešiteľ:** Miloš Hricovíni  
**Trvanie projektu:** 1.2.2009 / 31.1.2013  
**Evidenčné číslo projektu:** RII3-026145EU-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:** EC Brussels: 23772 €

Podpora medzinárodnej spolupráce z národných zdrojov: 2740 €

Dosiahnuté výsledky:

Projekt je riešený v rámci programu INFRASTRUCTURES a je určený na podporu rozvoja NMR infraštruktúry vo východoeurópskych krajinách. V projekte je zapojených 21 pracovísk zo 17 krajín. Súčasťou projektu je sieť NMR pracovísk s relatívne nízkymi nákladmi, ktorá bude podporovať výskum a výchovu v danej oblasti, s dôrazom na biomolekulárnu NMR. V januári 2011 bola v rámci projektu usporiadaná konferencia (2nd Annual User Meeting, Česká republika), na ktorej boli za SAV prezentované výsledky formou posterov. V dňoch 8.- 9. septembra 2011, NMR laboratórium CHÚ usporiadalo druhú regionálnu NMR konferenciu - EAST NMR Meeting (<http://nmr.chem.sk/news.html>). Odznali na nej prednášky zahraničných kolegov z pracovísk zapojených do projektu, ako aj z ďalších pracovísk z Európy. Boli prezentované aj prednášky mladých pracovníkov NMR zo Slovenska.

V r. 2011 sa tiež začala príprava konferencie pre mladých pracovníkov (2nd EAST-NMR Young Investigators' Meeting), ktorá bude v máji 2012 v Bratislave.

**19.) Integrovaná infraštruktúra pre štruktúrnu 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:

INSTRUCT (Integrated Structural Biology Infrastructure, <http://www.instruct-fp7.eu/>) sa sústreďuje na riešenie kľúčových biomedicínskych a environmentálnych problémov a na budovanie a integráciu potrebnej infraštruktúry. INSTRUCT zabezpečí voľný prístup k integrovanej infraštruktúre pre štruktúrnu biológiu, ktorá je k dispozícii na viacerých európskych pracoviskách,

čím urýchlili rozšírenie technológií a metodológií a pripraví európskych výskumníkov na využívanie najvýkonnejších zariadení. Pripravná fáza tohto projektu (2008-2011) sa ukončila vytvorením tzv. „Core centres“ (t.j. centier, ktoré majú špičkové technológie) a „Associate centres“ (centier, ktoré majú expertízu v danej oblasti a vytvoria komunity užívateľov v danej oblasti) a „Affiliate countries“ (krajiny, ktoré budú mať prístup do týchto centier).

Podobne ako v iných krajinách, ktoré vyjadrili záujem zapojiť sa do programu INSTRUCT, bola aj na Slovensku vytvorená tzv. „National Users Group“, ktorá zahŕňa pracoviská SAV (CHÚ, ÚMB, ÚEO, ÚNPF) a vysokých škôl (FarmF UK, PriF UK, FMFI UK, FCHPT STU a ďalšie). Vedeckí pracovníci vyjadrili svoj záujem plne sa zapojiť do tohto programu (web stránka <http://www.structuralbiology.eu/resources/countries>). Od apríla 2011 začala implementačná fáza projektu, v rámci ktorej sa mala už realizovať spolupráca. Nakoľko však financovanie projektu vyžaduje príspevok každej participujúcej krajiny vo výške 50 000 EUR, zapojenie Slovenska si vyžaduje súhlas MŠVVŠ SR a vlády SR. Otázka finančného príspevku Slovenska do INSTRUCT-u sa riešila na úrovni vedenia SAV na základe čoho predseda SAV požiadal ministra školstva, vedy, výskumu a športu SR o podporu pre vstup Slovenska do projektu INSTRUCT. Podľa listu ministra táto záležitosť mala byť prejednaná na zasadnutí vlády v novembri 2011. Výsledok zatiaľ nie je známy. Možno však predpokladať, že riešenie tejto záležitosti bolo preložené na neskorší termín.

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

<b>Zodpovedný riešiteľ:</b>	Igor Tvaroška
<b>Trvanie projektu:</b>	1.9.2008 / 30.6.2013
<b>Evidenčné číslo projektu:</b>	NMP4-LA-2008-212043 (APVV-DO7RP-0013-08)
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Prof. Massimo Masserini, Department of Experimental Medicine, University of Milano-Bicocca
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	EC Brussels: 19382 €

Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

### Dosiahnuté výsledky:

V rámci projektu je našou úlohou charakterizovať štruktúru a interakcie beta-amyloidu s nanočasticami tvorenými lipidmi, peptidmi a micelami. V roku 2011 sa študovali interakcie beta-amyloidu s fosfolipidmi, polypeptidmi, med'ou a kurkumínom metódami molekulového modelovania. V spolupráci s riešiteľmi konzorcia boli pripravené dve publikácie:

Davide Brambilla, Romain Verpillio, Benjamin Le Droumaguet, Julien Nicolas, Myriam Taverna, Juraj Kóna, S. Hossein Hashemi, Barbara Lettieri, Line De Kimpe, Marco Gobbi, Valérie Nicolas, Wiep Scheper, S. Moein Moghimi, Igor Tvaroška, Patrick Couvreur, Karine Andrieux:  
Poly(ethylene glycol) at the Surface of Nanocarriers Alters A $\beta$  Peptide Conformation: Toward a Nanomedicine for Alzheimer's Disease

Hasna Ahyayauch, Michal Raab, Jon V. Busto, Massimo Masserini, Igor Tvaroska, Felix M. Goni:  
Binding of monomeric A $\beta$ -amyloid (1-42) peptide to negatively- charged phospholipid membranes in the liquid-ordered state. modeling and experimental studies.

V spolupráci so skupinou dr. Felixu Goniho (Univerzita v Bilbao, Španielsko) sa na doplnenie



experimentov sledoval priebeh interakcií beta-amyloidu (bA42) s povrchmi membrán rôzneho zloženia. Za týmto účelom boli vytvorené 4 rôzne priestorové modely membrány s nasledovným zložením:

A: 47.5% Cholesterol, 47.5% Sfingomyelín, 5% Asialogangliosid GM1

B: 47.5% Cholesterol, 47.5% Sfingomyelín, 5% Gangliosid GM3

C: 47.5% Cholesterol, 47.5% Sfingomyelín, 5% Trisialogangliosid GT1b

D: 50% Cholesterol, 50% Sfingomyelín

Na konštrukciu modelu bol použitý výsek roviny membrány vo veľkosti cca 10x10 nm, tento bol solvatovaný štandardným vodným solvatačným modelom SCP, systém sa neutralizoval pridaním explicitných nabitých iónov NaCl a ďalšie ióny boli pridané na dosiahnutie fyziologickej koncentrácie 0.1 M NaCl. Model membrány sa následne minimalizoval a relaxoval metódami molekulovej dynamiky (MD) a následne sa minimalizovala potenciálna energia 20 ns produkčnou MD. Na všetky simulácie bol použitý programový balík GROMACS, energia produkčných dynamík bola udržiavaná za NPT podmienok s integračným krokom 0.2 fs. Po ustálení potenciálnej a kintetickej energie membrány sa do systému pridala monoména štruktúra bA42 vo vzdialenosti väčšej ako 1 nm a celý systém sa nechal propagovať v 100 ns MD za rovnakých podmienok ako pri samotnej membráne. Následne sa analyzuje priebeh potenciálnej a celkovej energie, fyzikálno-chemické vlastnosti membrány a priebeh intra-, a intermolekulárnych interakcií bA42 peptidu, ako aj jeho konformačné vlastnosti.

MD simulácia komplexu beta-amyloidu s  $\text{Cu}^{2+}$  v blízkosti His13 protonizovaného na epsilon dusíku:

V priebehu prípravy vstupnej geometrie bol  $\text{Cu}^{2+}$  ión umiestnený v blízkosti His13. Koordinačná sféra medi bola doplnená pomocou His6 a Asp7 z beta-amyloidu a jednou molekulou vody z roztoku. Molekulovo-dynamická simulácia trvala 90 ns. Výsledná trajektória bola analyzovaná pomocou programu ptraj, ktorý je súčasťou programového balíka AMBER. Radiálna distribučná funkcia (RDF) bola vypočítaná pre vzdialenosti medzi mediou a každým histidínom a negatívne nabitou aminokyselinou). Výsledky z RDF ukázali, že mediálny ión odplával z pripraveného komplexu a iba približne počas 2.7% času simulácie sa nachádzal v blízkosti kyslíkových atómov Asp7 and Glu11. Nezaznamenala sa žiadna zvýšená hodnota pre RDF v blízkosti ani jedného z histidínov.

MD simulácia komplexu beta-amyloidu s  $\text{Cu}^{2+}$  v blízkosti His13 protonizovaného na delta dusíku:

Vstupná štruktúra pre MD simuláciu bola pripravená z NMR štruktúry, ktorá obsahuje už aj priradené vodíkové atómy. My sme však študovali ako môže protonačný stav His13 ovplyvniť správanie sekundárnej štruktúry beta-amyloidu a jeho interakciu s mediým iónom a kurkumínom. V NMR štruktúre je His13 protonizovaný na epsilon dusíku, preto bola pripravená pre MD simuláciu štruktúra s His13 protonizovaným na delta dusíku. Vstupná štruktúra bola pripravená rovnako ako štruktúra s His13 protonizovaným na epsilon dusíku a bola zmenená iba spomenutá protonizácia z epsilon na delta dusík. Produkčná trajektória trvala 89 ns. Analýza RDF funkcie medzi  $\text{Cu}^{2+}$  a aminokyselinami ukázala, že mediálny ión sa vzdialil od beta-amyloidu a ostal umiestnený vo vodnom roztoku. Mediálny ión zotrval v blízkosti nejakej aminokyseliny iba po dobu najviac 1.7% a 1.2% simulačného času a to v okolí Glu11 respektíve Asp7 a Glu22. Taký nízky výskyt mediálneho iónu v okolí aminokyseliny nie je nijako významný.

Získané výsledky naznačujú, že samotná histidínová triáda nie je schopná vytvoriť stabilný komplex s mediým iónom a medi radšej interaguje s negatívne nabitými aminokyselinami. Avšak, tento výsledok môže byť silne ovplyvnený slabým popisom Cu–N koordinačnej väzby pomocou silového poľa, tak sa dá predpokladať, že dôkladnejšia parametrizácia silového poľa môže poskytnúť presnejšie výsledky. Výsledky taktiež ukázali, že prítomnosť iba jedného mediálneho iónu môže významne ovplyvniť chovanie sekundárnej štruktúry beta-amyloidu a tiež, že sekundárna štruktúra je ovplyvnená zmenou protonačného stavu His13.

## 21.) Systémové katalýzy (*Systems Catalysis*)

**Zodpovedný riešiteľ:** Igor Tvaroška  
**Trvanie projektu:** 1.9.2010 / 31.8.2014  
**Evidenčné číslo projektu:** FP7-PEOPLE-2010-ITN-264429 (APVV- PP7RP-0035-10)  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prof. Umberto Piarulli, Dept. of Chemical and Environmental Sciences, University of Insubria  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:**

### Dosiahnuté výsledky:

Cieľom tohoto FP7 projektu, ktorý nakoniec nebol schválený na financovanie z EC Brussels, bola systémová zmena pri vývoji nových katalyzátorov. Miesto sústredenia sa na individuálne katalyzátory, konzorcium si dalo za cieľ vyvinúť katalytický systém, v ktorom by viaceré katalyzátory pôsobili súčasne a tak propagovali viacnásobné chemické transformácie.

## Projekty národných agentúr

### Programy: VEGA

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

**Zodpovedný riešiteľ:** Peter Biely  
**Trvanie projektu:** 1.1.2010 / 31.12.2013  
**Evidenčné číslo projektu:** 2/0001/10  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 8033 €

### Dosiahnuté výsledky:

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

**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: 19183 €

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: 9945 €

Dosiahnuté výsledky:

### **4.) Transglykozylázy, ich vlastnosti a funkcia pri tvorbe a modifikácii bunkových stien rastlín a húb** (*Transglycosylases, their characterization and function in the formation and modification of plant and fungal cell walls*)

**Zodpovedný riešiteľ:** Vladimír Farkaš  
**Trvanie projektu:** 1.1.2009 / 31.12.2011  
**Evidenčné číslo projektu:** 2/0011/09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 7441 €

Dosiahnuté výsledky:

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

**Zodpovedný riešiteľ:** Peter Gemeiner  
**Trvanie projektu:** 1.1.2010 / 31.12.2013

**Evidenčné číslo projektu:** 2/0127/10  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 10586 €

Dosiahnuté výsledky:

**6.) Integrácia progresívnych techník imobilizácie pre vývoj robustných oxido-redukčných biotechnológií umožňujúcich efektívnu produkciu bioaktívnych látok** (*Integration of progressive techniques of immobilization for development of robust oxido-reductive biocatalysts allowing effective production of bioactive compounds*)

**Zodpovedný riešiteľ:** Peter Gemeiner  
**Trvanie projektu:** 1.1.2010 / 31.12.2011  
**Evidenčné číslo projektu:** 1/0335/10  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fakulta chemickej a potravinárskej chémie STU  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 9156 €

Dosiahnuté výsledky:

**7.) 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 / 31.10.2014  
**Evidenčné číslo projektu:** 2/0101/11  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 11590 €

Dosiahnuté výsledky:

**8.) 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 inštitúcií:** 0  
**Čerpané financie:** SAV: 6426 €

Dosiahnuté výsledky:

**9.) 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:** 0  
**Čerpané financie:** SAV: 8300 €

Dosiahnuté výsledky:

**10.) Štúdium expresie antimikrobiálnych peptidov-defenzínov vo včelstvách** *(Study of the expression of antibacterial peptides-defensins in honeybee colonies)*

**Zodpovedný riešiteľ:** Jaroslav Klaudiny  
**Trvanie projektu:** 1.1.2009 / 31.12.2011  
**Evidenčné číslo projektu:** 2/0209/09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 7101 €

Dosiahnuté výsledky:

**11.) Štrukturálny dizajn, syntéza a biochemické testovanie indolizidínových zlúčenín s antirakovinotvornými účinkami** (*Structure-based design, synthesis and biological evaluation of anti-cancer agents with indolizidine core*)

**Zodpovedný riešiteľ:** Juraj Kóňa  
**Trvanie projektu:** 1.1.2009 / 31.12.2011  
**Evidenčné číslo projektu:** 2/0176/09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 2490 €

Dosiahnuté výsledky:

**12.) 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:** 0  
**Čerpané financie:** SAV: 6578 €

Dosiahnuté výsledky:

**13.) Funkcia apoplastických bariér koreňa pri akumulácii a translokácii iónov - využitie rastlín vo fytoremediáciách** (*Function of root apoplastic barrier by ions accumulation and translocation – plants utilization in phytoremediation*)

**Zodpovedný riešiteľ:** Desana Lišková  
**Trvanie projektu:** 1.1.2010 / 31.12.2011  
**Evidenčné číslo projektu:** 1/0472/10  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prírodovedecká fakulta UK  
**Počet spoluriešiteľských inštitúcií:** 0

**Čerpané financie:** SAV: 3140 €

Dosiahnuté výsledky:

**14.) NMR štruktúrálna 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: 4552 €

Dosiahnuté výsledky:

**15.) 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: 5107 €

Dosiahnuté výsledky:

**16.) 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** áno

**koordinátorom projektu:**

**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 6116 €

Dosiahnuté výsledky:

**17.) Stimulácia konidiácie endogénnymi prchavými látkami v hube Trichoderma** (*Stimulation of conidiation by endogenous volatile compounds in Trichoderma*)

**Zodpovedný riešiteľ:** Marek Nemčovič  
**Trvanie projektu:** 1.1.2009 / 31.12.2011  
**Evidenčné číslo projektu:** 2/0131/09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 4798 €

Dosiahnuté výsledky:

**18.) Úloha CR3-RP v adherencii kvasinky Candida albicans a jeho imunologické vlastnosti** (*The role of the CR3-RP in adherence of Candida albicans yeast and its immunomodulatory properties*)

**Zodpovedný riešiteľ:** Ema Paulovičová  
**Trvanie projektu:** 1.1.2010 / 31.12.2011  
**Evidenčné číslo projektu:** 1/0396/10  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prírodovedecká fakulta UK  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 895 €

Dosiahnuté výsledky:

**19.) 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: 7801 €

Dosiahnuté výsledky:

**20.) Tvorba, vlastnosti a využitie kyslých banských odtokových vôd** (*The creation, characteristics and reusing of acid mine drainage*)

**Zodpovedný riešiteľ:** Vladimír Pätoprstý  
**Trvanie projektu:** 1.1.2009 / 31.12.2011  
**Evidenčné číslo projektu:** 1/0529/09  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fakulta ekológie a environmentalistiky TUZVO  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 3332 €

Dosiahnuté výsledky:

**21.) Syntéza dlhoreťazcových makrocyclických polyanhydroalditolov** (*Synthesis of the long-chain macrocyclic polyanhydroalditols*)

**Zodpovedný riešiteľ:** Ladislav Petruš  
**Trvanie projektu:** 1.1.2009 / 31.12.2011  
**Evidenčné číslo projektu:** 2/0199/09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SAV: 13771 €

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:** Elena Sláviková  
**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: 7253 €

Dosiahnuté výsledky:

**23.) 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: 4575 €

Dosiahnuté výsledky:

## **Programy: APVV**

**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:** 0  
**Čerpané financie:** APVV: 13321 €

Dosiahnuté výsledky:

**25.) 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:** 0  
**Čerpané financie:** APVV: 11000 €

Dosiahnuté výsledky:

**26.) Výber manánového epitopu pre prípravu účinnej antifungálnej vakcíny** (*Selection of mannan epitope for the preparation of efficient antifungal vaccine*)

**Zodpovedný riešiteľ:** Eva Machová  
**Trvanie projektu:** 1.9.2009 / 30.9.2011  
**Evidenčné číslo projektu:** APVV-LPP-0194-09  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Chemický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 12025 €

Dosiahnuté výsledky:

**27.) Syntéza enantiomérne čistého chalkogranu** (*Synthesis of enantiomerically pure chalcogran*)

**Zodpovedný riešiteľ:** Vladimír Mastihuba  
**Trvanie projektu:** 1.9.2009 / 31.8.2011  
**Evidenčné číslo projektu:** VMSP-P-0106-09  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Tau-chem, spol. s r.o., Bratislava  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 12517 €

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-0260-10  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:**  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 5628 €

Dosiahnuté výsledky:

**29.) 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: 17847 €

Dosiahnuté výsledky:

**30.) Systémové katalýzy** (*Systems Catalysis*)

**Zodpovedný riešiteľ:** Igor Tvaroška  
**Trvanie projektu:** 1.9.2010 / 31.8.2014  
**Evidenčné číslo projektu:** APVV- PP7RP-0035-10  
**Organizácia je** nie

**koordinátorom projektu:**

**Koordinátor:** Prof. Umberto Piarulli, Dept. of Chemical and Environmental Sciences, University of Insubria

**Počet spoluriešiteľských inštitúcií:** 0

**Čerpané financie:** APVV: 2976 €

Dosiahnuté výsledky:

**Programy: Štrukturálne fondy EÚ Výskum a vývoj**

**31.) Centrum excelentnosti pre ochranu a využívanie krajiny a biodiverzitu** (*Center for excellence for protection and use of landscape and biodiversity*)

**Zodpovedný riešiteľ:** Henrik Kalivoda

**Zodpovedný riešiteľ v organizácii SAV:** Desana Lišková

**Trvanie projektu:** 1.5.2009 / 30.4.2011

**Evidenčné číslo projektu:** 26240120014

**Organizácia je** nie

**koordinátorom projektu:**

**Koordinátor:**

**Počet spoluriešiteľských inštitúcií:** 6 - Slovensko: 6

**Čerpané financie:** ASFEU: 10845 €

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 / 31.12.2012

**Evidenčné číslo projektu:** 26240120025

**Organizácia je** nie

**koordinátorom projektu:**

**Koordinátor:** Univerzita Komenského v Bratislave

**Počet spoluriešiteľských inštitúcií:** 2 - Slovensko: 2

**Čerpané financie:** ASFEU: 35868 €

Dosiahnuté výsledky:

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

**Zodpovedný riešiteľ:** Ján Mucha  
**Trvanie projektu:** 1.6.2010 / 30.6.2013  
**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: 103875 €

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:**

Dosiahnuté výsledky:

**35.) Centrum excelentnosti metód a procesov zelenej chémie** (*Excellence centre for methods and processes of green chemistry*)

**Zodpovedný riešiteľ:** Ladislav Petruš  
**Trvanie projektu:** 1.5.2009 / 30.4.2011  
**Evidenčné číslo projektu:** 26240120001  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Univerzita Komenského v Bratislave  
**Počet spoluriešiteľských inštitúcií:** 2 - Slovensko: 2  
**Čerpané financie:** ASFEU: 49423 €

Dosiahnuté výsledky:

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

**Zodpovedný riešiteľ:** Pavol Šajgalík  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Gemeiner  
**Trvanie projektu:** 1.5.2009 / 30.4.2011  
**Evidenčné číslo projektu:** 26240120007  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:**  
**Počet spoluriešiteľských inštitúcií:** 2 - Slovensko: 2  
**Čerpané financie:** ASFEU: 1295 €

Dosiahnuté výsledky:

**37.) Centrum pre materiály, vrstvy a systémy pre aplikácie a chemické procesy v extrémnych podmienkach - Etapa II** (*Centre for materials, layers and systems for applications 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: 174749 €

Dosiahnuté výsledky:

**Programy: Centrá excelentnosti SAV**

**38.) 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**

**39.) Biotechnická funkcionalizácia obnoviteľných polymérnych materiálov** (*Biotechnical functionalisation of renewable polymeric materials*)

**Zodpovedný riešiteľ:** Peter Biely  
**Trvanie projektu:** 1.5.2006 / 31.3.2011  
**Evidenčné číslo projektu:** COST Action 868  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prof. Georg M. Gübitz, Department of Environmental Biotechnology, Graz University of Technology  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:**

Dosiahnuté výsledky:

**40.) Biotechnológie pre skvalitňovanie lignocelulózy** (*Biotechnology for lignocellulose biorefineries*)

**Zodpovedný riešiteľ:** Peter Biely  
**Trvanie projektu:** 1.2.2007 / 30.9.2011  
**Evidenčné číslo projektu:** COST Action FP0602  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prof. Liisa Viikari, Department of Applied Chemistry and Microbiology, University of Helsinki  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:**

Dosiahnuté výsledky:

**41.) 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:

**42.) Koloidná chémia a chémia povrchov v nanotechnológii** *(Colloid and interface chemistry for nanotechnology)*

**Zodpovedný riešiteľ:** Peter Gemeiner  
**Trvanie projektu:** 1.11.2006 / 30.11.2011  
**Evidenčné číslo projektu:** COST CM8T D43  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Prof. Peter Kralchevsky, Department of Chemical Engineering, University of Sofia  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:**

Dosiahnuté výsledky:

**43.) 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:

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

**Zodpovedný riešiteľ:** Miloš Hricovíni  
**Trvanie projektu:** 1.2.2009 / 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:

**45.) Integrovaná infraštruktúra pre štruktúrálnu 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:

**46.) 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** nie

**koordinátorom projektu:**

**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:

**47.) 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** nie

**koordinátorom projektu:**

**Koordinátor:** Prof. Sabine L. Flitsch, School of Chemistry, Manchester Interdisciplinary Biocentre

**Počet spoluriešiteľských inštitúcií:** 0

**Čerpané financie:**

Dosiahnuté výsledky:

**48.) 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** nie

**koordinátorom projektu:**

**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 GRUWEL, Marco L.H. - MCKENZIE-MATWIY, Eilean - LATTOVÁ, Erika. Diagnosing liver cancer: A multi-modal approach. In Liver cancer : causes, diagnosis and treatment. - New York : Nova Sci Publ, 2011, p. 126-153. ISBN 978-1-61209-115-0.
- ABC02 MAROVA, Ivana - CERTIK, M. - BREIEROVÁ, Emília. Production of enriched biomass by carotenogenic yeasts – application of whole-cell yeast biomass to production of pigments and other lipid compounds. In Biomass – detection, production and usage. - Rijeka : InTech, 2011, chapter 18. p. 345-384. ISBN 978-953-307-492-4.
- ABC03 SCHILLER, Jürgen - VOLPI, Nikola - HRABÁROVÁ, Eva - ŠOLTÉS, Ladislav. Hyaluronic acid: a natural biopolymer : chapt. 1. In Biopolymers: biomedical and environmental applications. - Salem : Scrivener : Wiley, 2011, p. 3-34. ISBN 978-0-470-63923-8. VEGA 2/0056/10, VEGA 2/0011/11.

#### ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 ABAD, Sandra - NAHÁLKA, Jozef - WINKLER, Margit - BERGLER, Gabriele - SPEIGHT, Robert - GLIEDER, Anton - NIDETZKY, Bernd. High-level expression of Rhodotorula gracilis D-amino acid oxidase in Pichia pastoris. In Biotechnology Letters, 2011, vol. 33, p. 557-563. (1.768 - IF2010). (2011 - Current Contents). ISSN 0141-5492.
- ADCA02 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Polyphosphate - an ancient energy source and active metabolic regulator. In Microbial Cell Factories, 2011, vol. 10, p. 63. (4.544 - IF2010). ISSN 1475-2859.
- ADCA03 BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - PAULOVICHOVÁ, Ema - VOLPI, Nikola. Chondroitin sulfate effect on induced arthritis in rats. In Osteoarthritis and Cartilage, 2011, vol. 19, no. 11, p. 1373-1379. (3.953 - IF2010). (2011 - Current Contents). ISSN 1063-4584. VEGA 2/0045/11.
- ADCA04 BIELY, Peter - MASTIHUBOVÁ, Mária - TENKANEN, Maija - EYZAGUIRRE, Jaime - LI, Xin-Liang - VRŠANSKÁ, Mária. Acirion of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl flycosides of beta-D-xylopyranose and alfa-L-arabinofuranose. In Journal of Biotechnology, 2011, vol. 151, p. 137-142. (2.970 - IF2010). (2011 - Current Contents). ISSN 0168-1656.
- ADCA05 BOTH, Peter - SOBCZAK, Lukas - BRETON, Christelle - HANN, Stephan - NOBAUER, Katharina - PASCHINGER, Katharina - KOZMON, Stanislav - MUCHA, Ján - WILSON, Iain B.H. Distantly related plant and nematode core alfa 1,3-fucosyltransferases display similar trends in structure-function relationships. In Glycobiology, 2011, vol. 21, p. 1401-1415. (3.791 - IF2010). (2011 - Current Contents). ISSN 0959-6658.
- ADCA06 BUČKO, Marek - SCHENKMAYEROVÁ, Andrea - GEMEINER, Peter - VIKARTOVSKÁ, Alica, Welwardová - MIHOVILOVIČ, Marko D. - LACÍK, Igor. Continuous testing system for Baeyer-Villiger biooxidation using recombinant Escherichia coli expressing cyclohexanone monooxygenase encapsulated in polyelectrolyte complex capsules. In Enzyme and Microbial Technology, 2011, vol. 49, p. 284 - 288. (2.287 - IF2010). (2011 - Current Contents). ISSN 0141-0229.

- ADCA07 BYSTRICKÝ, Slavomír - MEDOVARSKÁ, Izabela - MACHOVÁ, Eva. Separation of different types of monosaccharides by polyacrylamide column chromatography. In Zeitschrift für Naturforschung Section B - A Journal of Chemical Sciences, 2011, vol. 66, p. 295-298. (0.816 - IF2010). ISSN 0932-0776.
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ADCA249

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2. [1.1] Steyaert, JM (Steyaert, Johanna M.); Weld, RJ (Weld, Richard J.); Stewart, A (Stewart, Alison) Title: Ambient pH intrinsically influences *Trichoderma* conidiation and colony morphology Source: FUNGAL BIOLOGY Volume: 114 Issue: 2-3 Pages: 198-208 DOI: 10.1016/j.funbio.2009.12.004 Published: FEB-MAR 2010, WOS

ADDA28 PROKSA, Bohumil - UHRÍN, Dušan - FUSKA, J. - MICHÁLKOVÁ, E. (-)-Mitorubrinol and phthaldehydic acids, new metabolites of *Penicillium vermiculatum* DANG. In Collection of Czechoslovak Chemical Communications, 1992, vol. 57, p. 408-414. (1992 - Current Contents). ISSN 0010-0765.

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ADDA29 REXOVA-BENKOVA, L. - OMELKOVÁ, Jiřina - KUBÁNEK, V. Endo-D-galacturonase immobilized by adsorption on polyethyleneterephthalate. In Collection of Czechoslovak Chemical Communications, 1982, vol. 47, p. 2716-2723. ISSN 0010-0765.

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ADDA30 REXOVA-BENKOVA, L. Separation of oligogalacturonic acids by dextran gel chromatography. In *Chemické zvesti*, 1970, vol. 24, p. 59-62. ISSN 0366-6352.

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ADDA31 ROSIK, J. - BRUTENIČOVÁ-SÓSKOVÁ, M. - ZITKO, V. - KUBALA, J. Polysaccharide from the peach-tree gum (*Prunus persica* L. BATSCH). In *Chemické zvesti*, 1966, vol. 20, p. 577-585. ISSN 0366-6352.

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- J.); Iacomini, M (Iacomini, M.) Title: Rheological and structural characteristics of peach tree gum exudate Source: FOOD HYDROCOLLOIDS Volume: 24 Issue: 5 Pages: 486-493 DOI: 10.1016/j.foodhyd.2009.12.010 Published: JUL 2010, WOS*
- ADDA32 SLAMEŇOVÁ, Darina - ŠRAMKOVÁ, Monika - CHALUPA, Ivan - ŠMIGOVÁ, J. - KOGAN, Grigorij. Reduction of genotoxic effects of N-nitrosomorpholine in human hepatoma cells and hamster lung cells by carboxymethyl chitin-glucan. In Neoplasma, 2008, vol. 55, no. 4, s. 280-285. (1.208 - IF2007). (2008 - Current Contents). ISSN 0028-2685.  
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- ADDA33 ŠANDULA, Jozef - VOJTKOVÁ-LEPŠÍKOVÁ, A.. Immunochemical studies on mannans of the genus Saccharomyces: Group of Saccharomyces sensu stricto species. In Folia microbiologica, 1974, vol. 19, p. 94-101. ISSN 0015-5632.  
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- ADDA34 ŠTURDÍKOVÁ, Marta - PROKSA, B. - UHRÍN, Dušan - FUSKA, J. Regulation of biosynthesis of thiolutin and aureothricin in Streptomyces kasugaensis. In Folia microbiologica, 1990, vol. 35, p. 278-283. ISSN 0015-5632.  
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- ADDA35 TÁMOVÁ, G. - FARKAŠ, Vladimír - BETINA, V. Relationship between light intensity and the changes in the intracellular level of ATP during photoinduction in Trichoderma. In Folia microbiologica, 1995, vol. 40, p. 516-518. ISSN 0015-5632.  
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- ADDA36 VASSOVÁ, A. - VOTICKÝ, Zdeno - ČERNÍK, J. - TOMKO, J. Buxus alkaloids. XVIII. Alkaloids of Buxus Harlandi HANCE. In Chemické zvesti, 1980, vol. 34, p. 706-711. ISSN 0366-6352.  
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*1. [1.1] Ata, A (Ata, Athar); Iverson, CD (Iverson, Chad D.); Kalhari, KS (Kalhari, Kosmulalage S.); Akhter, S (Akhter, Sarfraz); Betteridge, J (Betteridge, Jordan); Meshkatalasadat, MN (Meshkatalasadat, Mohammad Nadi); Orhan, I (Orhan, Ilkay); Sener, B (Sener, Bilge) Title: Triterpenoidal alkaloids from Buxus hyrcana and their enzyme inhibitory, anti-fungal and anti-leishmanial activities Source: PHYTOCHEMISTRY Volume: 71 Issue: 14-15 Pages: 1780-1786 DOI:*



- ADDA37 *10.1016/j.phytochem.2010.06.017 Published: OCT 2010, WOS*  
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 NAVAROVA, J Title: Carboxymethyl chitin-glucan (CM-CG) protects human  
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 2010 Issue: 7 Pages: 1986-1992, WOS
- ADDA38 ŽOLDÁKOVÁ, A. - SROKOVA, I. - SASINKOVÁ, Vlasta - HIRSCH, Ján -  
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 Title: The influence of protonation ratio on properties of carboxymethyl starch  
 excipient at various substitution degrees: Structural insights and drug release  
 kinetics Source: INTERNATIONAL JOURNAL OF PHARMACEUTICS Volume:  
 394 Issue: 1-2 Pages: 75-84 DOI: 10.1016/j.ijpharm.2010.04.037 Published:  
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#### ADDB Vedecké práce v domácich karentovaných časopisoch neimpaktovaných

- ADDB01 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. III.  
 Preparation of L-glucose by epimerization of L-mannose or L-mannose  
 phenylhydrazone. In Chemické zvesti, 1972, vol.26, s. 187-189.  
 Citácie:  
 1. [1.1] Hricoviniova, Z (Hricoviniova, Zuzana); Zalibera, M (Zalibera, Michal);  
 Hricovini, M (Hricovini, Milos) Title: Microwave-assisted regioselective synthesis  
 and isomerization of 6-O-vanillyl- and 6-O-iso-vanillyl hexoses and studies of  
 their activities as radical scavengers by EPR spectroscopy Source:  
 TETRAHEDRON-ASYMMETRY Volume: 21 Issue: 6 Pages: 756-761 DOI:  
 10.1016/j.tetasy.2010.04.020 Published: APR 8 2010, WOS
- ADDB02 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. II.  
 Epimerization of D-glucose and D-mannose. In Chemické zvesti, 1972, vol.26, s.  
 183-186.  
 Citácie:  
 1. [1.1] Hricoviniova, Z (Hricoviniova, Zuzana); Zalibera, M (Zalibera, Michal);  
 Hricovini, M (Hricovini, Milos) Title: Microwave-assisted regioselective synthesis  
 and isomerization of 6-O-vanillyl- and 6-O-iso-vanillyl hexoses and studies of  
 their activities as radical scavengers by EPR spectroscopy Source:  
 TETRAHEDRON-ASYMMETRY Volume: 21 Issue: 6 Pages: 756-761 DOI:  
 10.1016/j.tetasy.2010.04.020 Published: APR 8 2010, WOS  
 2. [1.1] Hricoviniova, Z Title: A new approach to Amadori ketoses via Mo(VI)-  
 catalyzed stereospecific isomerization of 2-C-branched sugars bearing azido  
 function in a microwave field Source: TETRAHEDRON-ASYMMETRY Volume:  
 212010 Issue: 18 Pages: 2238-2243, 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] Banu, I (Banu, I.); Vasilean, I (Vasilean, I.); Aprodu, I (Aprodu, I.) Title: EVALUATION OF RHEOLOGICAL BEHAVIOUR OF WHOLE RYE AND BUCKWHEAT BLENDS WITH WHOLE WHEAT FLOUR USING MIXOLAB Source: ITALIAN JOURNAL OF FOOD SCIENCE Volume: 22 Issue: 1 Pages: 83-89 Published: 2010, 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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1. [1.1] Brandao, LR (Brandao, Luciana R.); Medeiros, AO (Medeiros, Adriana O.); Duarte, MC (Duarte, Mariana C.); Barbosa, AC (Barbosa, Anne C.); Rosa, CA (Rosa, Carlos A.) Title: Diversity and antifungal susceptibility of yeasts isolated by multiple-tube fermentation from three freshwater lakes in Brazil Source: JOURNAL OF WATER AND HEALTH Volume: 8 Issue: 2 Pages: 279-289 DOI: 10.2166/wh.2009.170 Published: 2010, WOS

#### ADFB Vedecké práce v domácich nekarentovaných časopisoch neimpaktovaných

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

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2. [1.1] YOUNCE, C.W. - WANG, K.K. - KOLATTUKUDY, P.E. Hyperglycaemia-induced cardiomyocyte death is mediated via MCP-1 production and induction of a novel zinc-finger protein MCPIP. In CARDIOVASCULAR RESEARCH. ISSN 0008-6363, 2010, vol. 87, no. 4, p. 665-674., WOS

- ADFB02 FERENČÍK, M. - KOTULOVÁ, D. - MASLER, Ladislav - ŠANDULA, Jozef - PRUŽINEC, P. Immunomodulatory effect of glucans on professional phagocytes. In Bratislavské lekárske listy, 1988, roč. 89, 424-432. ISSN 0006-9248.

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1. [1.1] Rajapakse, JRPV (Rajapakse, Jayanthe R. P. V.); Buddhika, MDP (Buddhika, M. D. P.); Nagataki, M (Nagataki, Mitsuru); Nomura, H (Nomura, Haruka); Watanabe, Y (Watanabe, Yoshiya); Ikeue, Y (Ikeue, Yasunori); Agatsuma, T (Agatsuma, Takeshi) Title: Effect of Sophy beta-Glucan on Immunity and Growth Performance in Broiler Chicken Source: JOURNAL OF VETERINARY MEDICAL SCIENCE Volume: 72 Issue: 12 Pages: 1629-1632 DOI: 10.1292/jvms.10-0029 Published: DEC 2010, WOS

- ADFB03 LUKÁŠOVÁ, E. - VOJTÍŠKOVÁ, M. - JELÉN, 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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1. [1.1] Fan, H (Fan Hao); Xing, R (Xing Rong); Xu, Y (Xu Ying); Chen, MA (Chen Miao); Wang, QJ (Wang Qingjiang); He, PG (He Pingang); Fang, YZ (Fang Yuzhi) Title: A Competitor-switched Electrochemical Sensor for Detection of DNA Source: CHINESE JOURNAL OF CHEMISTRY Volume: 28 Issue: 10 Pages: 1978-1982 DOI: 10.1002/cjoc.201090330 Published: OCT 2010, WOS

ADFB04 TRNOVEC, Tomáš - BENEŠ, Luděk - MASLER, Ladislav - ŠANDULA, Jozef. Imunofarmakológia glukanu, klinicky perspektívnej imunostimulačnej látky : [Immunopharmacology of glucane, clinically perspective immunostimulative agent ]. In Farmaceutický obzor : odborný časopis Ministerstva zdravotníctva SR a Slovenskej zdravotníckej univerzity v Bratislave, 1987, roč. 56, č. 6, s. 271-277. ISSN 0014-8172.

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1. [1.2] RAJAPAKSE, J.R.P.V. - BUDDHIKA, M.D.P. - NAGATAKI, M. - NOMURA, H. - WATANABE, Y. - IKEUE, Y. - AGATSUMA, T. Effect of Sophy  $\beta$ -glucan on immunity and growth performance in broiler chicken. In Journal of Veterinary Medical Science. ISSN 0916-7250, 2010, vol. 72, no. 12, p. 1629-1632, SCOPUS

ADFB05 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, Ladislav. Protective effects of manganese(II) chloride on hyaluronan degradation by oxidative system ascorbate plus cupric chloride. In Interdisciplinary toxicology, 2010, vol. 3, no.1, p. 26-34. ISSN 1337-6853.

Citácie:

1. [2.2] EYBL, V. - KOTYZOVA, D. Protective effect of manganese in cadmium-induced hepatic oxidative damage, changes in cadmium distribution and trace elements level in mice. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853. 2010, vol. 3, no. 2, p. 68-72, SCOPUS

## **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, morfogénéze 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. Ružena Pilišiová

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

Mgr. Mária Šedivá

Názov semestr. predmetu: Laboratórne cvičenia zo základnej mikrobiológie

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

Ing. Zuzana Zemková

Názov semestr. predmetu: Laboratórne cvičenie z biochémie II (IV. ročník študijného odboru Biomedicínske inžinierstvo)

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:

RNDr. Peter Biely, DrSc.

Názov semestr. predmetu: Postgraduate courses „Enzymes for industrial applications“ and „Sustainable Products and Processes“ as a part of „Master in Adv. Microbiology“: 1. Microbial xylanolytic enzymes. 2. Diversity of substrate recognition. 3. Xylosidase. 4. Xylooligosaccharides

Počet hodín za semester: 10

Názov katedry a vysokej školy: Faculty of Biology, University of Barcelona, Department of Microbiology

RNDr. Mária Matulová, PhD.

Názov semestr. predmetu: NMR spectroscopy of polysaccharides

Počet hodín za semester: 3

Názov katedry a vysokej školy: Université Blaise Pascal, UMR 6504, Clermont-Ferrand, Francúzsko, École Doctorale Science Fondamentales

Ing. Elena Sláviková, 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

Ing. Elena Sláviková, PhD.

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

Počet hodín za semester: 2

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

**Príloha E****Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Austrália					Soňa Garajová	151
Česko	Júlia Mičová	5	Emília Breierová	1	Tomáš Bertók	1
	Eva Stratilová	5	Jana Molnárová	1	Peter Biely	1
	Zuzana Zemková	5	Renáta Vadkertiová	1	Marek Bučko	3
					Peter Capek	15
					Jaroslav Katrlík	2
					Jaroslav Klaudiny	1
					Lenka Kohútová	1
					Júlia Mičová	223
					Zuzana Neščáková	1
					Michal Raab	2
					Vlasta Sasinková	3
					Andrea Schenk Mayerová	1
					Jozef Turjan	8
					Igor Tvaroška	73
					Alica Vikartovská	2
					Silvia Vlčková	5
					Mária Vršanská	1
Dánsko					Peter Biely	2
Francúzsko			Mária Matulová	32	Mária Matulová	17
Holandsko					Renáta Vadkertiová	4
Chorvátsko					Ján Mucha	7
Kanada					Erika Lattová	365
Maďarsko					Jaroslav Katrlík	3
Nórsko					Peter Biely	31



Poľsko					Peter Capek	15
Rakúsko					Peter Biely	4
					Jaroslav Katrlík	1
					Juraj Kóňa	25
					Ružena Pilišiová	1
					Igor Tvaroška	4
Rusko	Pavol Farkaš	11				
	Anna Fleischackero vá	11				
	Zuzana Neščáková	11				
Španielsko					Peter Biely	7
					Zuzana Neščáková	8
USA					Marek Nemčovič	245
					Ivana Nemčovičová	365
Veľká Británia					Alžbeta Čížová	5
<b>Počet vyslaní spolu</b>	<b>6</b>	<b>48</b>	<b>4</b>	<b>35</b>	<b>36</b>	<b>1603</b>

**(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
Austrália					Dr. Mária Hrmová	1
Bulharsko					Dr. Georgi Yordanov	28
Česko			Dr. Kateřina Illková	108		
Maďarsko	Dr. Matthias Sipiczki	7				
Rusko	Dr. Jana Kisarova	11				
	Dr. Svetlana Zhanaeva	11				
Taliansko					Dr. Gianluca Accogli	31
<b>Počet prijatí spolu</b>	<b>3</b>	<b>29</b>	<b>1</b>	<b>108</b>	<b>3</b>	<b>60</b>

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	COST Action CM0701	Marek Bučko	2

Cyprus	COST ESSEM Action TD0803	Ladislav Petruš	5
Česko	7ICP-Glycoscience	Peter Capek	4
		Ján Hirsch	5
		Zdena Hromádková	4
		Zuzana Košťálová	3
		Jozef Turjan	4
	APROCHEM 2011	Jaroslav Filip	2
	Bio-NMR/EAST-NMR	Miloš Hricovíni	4
		Slavomíra Husárová	4
		Iveta Uhliariková	4
	CHL2011	Eva Stratilová	5
		Zuzana Zemková	4
	IX Discussions 2011	Michal Raab	3
	XI MSMBBC	Jana Šefčovičová	4
Čína	SEB 2011	Peter Biely	10
Francúzsko	2EIP-Proteoglycan	Miloš Hricovíni	7
Holandsko	EPNOE 2011	Zdena Hromádková	7
		Zuzana Košťálová	7
Izrael	COST CMST APC	Ladislav Petruš	6
Maďarsko	EuroNanoForum 2011	Michal Raab	5
		Igor Tvaroška	5
Malta	COST CMST DC	Ladislav Petruš	4
Maroko	Biosensors Workshop 2011	Jaroslav Katrlík	6
Nemecko	5th Glycan Forum	Ján Hirsch	5
		Igor Tvaroška	5
	ECCE/ECAB 2011	Tomáš Bertók	7
		Andrea Schenkmayerová	7
	EUROMAR 2011	Miloš Hricovíni	5
		Slavomíra Husárová	5
		Mária Matulová	3
Portugalsko	THEOBio2011	Ján Hirsch	8
		Igor Tvaroška	8
Rakúsko	Glyco 21	Juraj Kóna	6
		Martina Maličká	6
		Sergej Šesták	2
		Igor Tvaroška	6
Španielsko	COST Action D43	Jaroslav Katrlík	5
Taliansko	Biotrans 2011	Marek Bučko	6
	COST Action FA0905	Karin Kollárová	5
	COST Action FP0602	Mária Vršanská	4
	COST Action FP0901	Zdena Hromádková	5
	EUROCARB 16	Ján Hirsch	8
		Miloš Hricovíni	8
		Zuzana Hricovíniiová	8
		Michal Raab	8
		Igor Tvaroška	8
<b>Spolu</b>	<b>26</b>	<b>47</b>	<b>252</b>

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

Skratky použité v tabuľke C:

2EIP-Proteoglycan - 2nd European Intensive Program on Proteoglycans Glycosaminoglycans  
5th Glycan Forum - 5th Glycan Forum  
7ICP-Glycoscience - 7th International Conference on Polysaccharides - Glycoscience 2011  
APROCHEM 2011 - 20. Konferencie APROCHEM 2011  
Bio-NMR/EAST-NMR - Bio-NMR and EAST-NMR Annual User Meeting  
Biosensors Workshop 2011 - 5th International Workshop on Biosensors for Food Safety and Environmental Monitoring  
Biotrans 2011 - 10th International Symposium on Biocatalysis - Biotrans 2011  
CHL2011 - 5th Meeting on Chemistry & Life  
COST Action CM0701 - COST Action CM0701 - Management Committee Meeting  
COST Action D43 - Workshop of COST Action D43 - Functionalized Materials and Interfaces  
COST Action FA0905 - COST Action FA0905 - 2nd Annual Conference  
COST Action FP0602 - COST Action FP0602 Final Workshop  
COST Action FP0901 - COST Action FP0901 Meeting  
COST CMST APC - COST CMST APC Meeting  
COST CMST DC - COST CMST DC Meeting  
COST ESSEM Action TD0803 - COST ESSEM Action TD0803 - Joint Workshop and Management Committee Meeting  
ECCE/ECAB 2011 - 8th European Congress of Chemical Engineering and 1st European Congress of Applied Biotechnology  
EPNOE 2011 - 2nd International Polysaccharides Conference EPNOE 2011  
EUROCARB 16 - 16th European Carbohydrate Symposium - EUROCARB 16  
EUROMAR 2011 - Magnetic Resonance Conference - EUROMAR 2011  
EuroNanoForum 2011 - EuroNanoForum 2011  
Glyco 21 - XXI International Symposium on Glycoconjugates - Glyco 21  
IX Discussions 2011 - 9th Discussions in Structural Molecular Biology  
SEB 2011 - BIT's 2nd Symposium on Enzymes & Biocatalysis-2011 - SEB 2011  
THEOBio2011 - 5th Theoretical Biophysics International Symposium - THEOBio2011  
XI MSMBBC - XI. Mezioborové setkání mladých biologů, biochemiků a chemiků