Chemický ústav
Slovenskej akadémie vied

SPRÁVA O ČINNOSTI
ZA ROK 2016

Bratislava
január 2017

Obsah osnovy Správy o činnosti organizácie SAV za rok 2016

1.	Základné údaje o organizácii	1
2.	Vedecká činnosť	3
3.	Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku	16
4.	Medzinárodná vedecká spolupráca	21
5.	Vedná politika	25
6.	Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky	26
7.	Spolupráca s aplikačnou a hospodárskou sférou	36
8.	Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie	38
9.	Vedecko-organizačné a popularizačné aktivity	39
10.	Činnosť knižnično-informačného pracoviska	52
11.	Aktivity v orgánoch SAV	53
12.	Hospodárenie organizácie	55
13.	Nadácie a fondy pri organizácii SAV	56
14.	Iné významné činnosti organizácie SAV	56
15.	Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie SAV	57
16.	Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám	59
17.	Problémy a podnety pre činnosť SAV	59

PRÍLOHY

A	*Zoznam zamestnancov a doktorandov organizácie k 31.12.2016*	62
B	*Projekty riešené v organizácii*	68
C	*Publikačná činnosť organizácie*	87
D	*Údaje o pedagogickej činnosti organizácie*	109
E	*Medzinárodná mobilita organizácie*	114
	Ohlasy (citácie)	118

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV
Riaditeľ: Ing. Miroslav Kóš, DrSc.
Zástupca riaditeľa: RNDr. Ján Gajdoš, PhD.
Vedecký tajomník: RNDr. Desana Lišková, PhD.
Predseda vedeckej rady: Ing. Ján Tkáč, DrSc.
Člen snemu SAV: Ing. Miroslav Kóš, DrSc.
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E-mail: chemsekr@savba.sk
Názvy a adresy detašovaných pracovísk: nie sú

Vedúci detašovaných pracovísk: nie sú

Typ organizácie: Príspevková od roku 2009

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	141	54	87	10	24	125	114,66	67,82
Vedeckí pracovníci	79	35	44	5	19	64	56,08	54,5
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	19	8	11	4	4	19	16,26	13,32
Odborní pracovníci VŠ (ostatní zamestnanci[2])	3	0	3	0	0	3	3,25	0
Odborní pracovníci ÚS	30	5	25	1	1	29	29,26	0
Ostatní pracovníci	10	6	4	0	0	10	9,81	0

[1] *odmeňovaní podľa 553/2003 Z.z., príloha č. 5*
[2] *odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2016 (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 31.12.2016 (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 31.12.2016)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	10	25	1	2	10	21	4
Ženy	2	42	0	0	3	21	20

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

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
Muži	3	3	4	5	2	1	5	6	7
Ženy	7	9	3	3	3	1	8	6	2

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2016

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	Bez úväzku	S úväzkom	Bez úväzku	S úväzkom	Bez úväzku	S úväzkom
Muži	52,8	44,5	52,9	42,5	52,1	40,1
Ženy	46,5	44,5	43,8	41,9	46,0	42,9
Spolu	48,9	44,5	47,8	42,2	48,8	41,6

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

V roku 2016 nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii Chemického ústavu SAV, ktorá bola naďalej zameraná na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

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

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

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2016

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2016 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Vedecké projekty, ktoré boli v roku 2016 financované VEGA	18	2	171442	171442	8740
2. Projekty, ktoré boli v roku 2016 financované APVV	7	7	217429	162022	44050
3. Projekty OP ŠF	0	0	-	-	-
4. Projekty centier excelentnosti SAV	0	0	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-

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

Tabuľka 2b Zoznam domácich projektov podaných v roku 2016

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV v roku 2016	-	7	4
2. Projekty výziev OP ŠF podané v roku 2016	Bratislava	0	0
	Regióny	0	3

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2016

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2016

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2016 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 7. Rámcového programu EÚ a Horizont 2020	3	1	309337	309337	89166
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	0	7	-	-	-
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	2	0	5080	5080	-
4. Bilaterálne projekty	0	1	-	-	2872
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV, ...)	2	8	21996	30329	19683
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	1	-	-	78106

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

2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2016

Výzva: H2020-SC1-2016-2017 RIA (Research and Innovation action).
Topic: SC1-PM-09-2016 (Personalised Medicine)
Názov: Chronic allergic asthma: personalising new therapies by modulation of the microbiome
Acronym: CAMBIO
Koordinátor: Goethe University Frankfurt, Germany
Zodpovedený zahraničný riešiteľ: Dr. Johannes Fleckenstein
Zodpovedný riešiteľ z CHÚ: Mgr. Peter Capek, PhD.
Počet riešiteľských inštitúcií: 14 (Nemecko: 5, Rakúsko: 2, Taliansko: 2, Holansko: 1, Slovensko: 1, Spanielsko: 1, Švajčiarsko: 2)
Stav: zamietnutý

Výzva: H2020-MSCA-ITN-2016
Názov: PREDictive CAncer TEst: validation of prognostic and predictive prostate cancer biomarkers using novel biosensing technologies
Koordinátor: University of Bath, Bath, UK
Zodpovedný zahraničný riešiteľ: Dr. Pedro Estrela
Zodpovedný riešiteľ z CHÚ: Ing. Ján Tkáč, DrSc.
Počet riešiteľských inštitúcií: 10 (Nemecko: 1, Veľká Británia: 4, Holandsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Portugalsko: 1, Slovensko: 1)
Stav: zamietnutý

Výzva: H2020-INFRAIA-02-2017
Topic: Integrating Activities for Starting Communities
Priority: Excellent Science
Objective: Research Infrastructures
Topic: Integrating Activities for Starting Communities
Názov: A Chemical and biochemical infrastructure for exploring glycointeractomes with glycomic and microarray technologies
Koordinátor: University of Manchester, Manchester, UK
Zodpovedný zahraničný riešiteľ: Prof. Sabine Flitsch
Zodpovedný riešiteľ z CHÚ: Ing. Jaroslav Katrlík, PhD.
Počet riešiteľských inštitúcií: 12 (Veľká Británia: 4, Dánsko: 1, Nemecko: 2, Rusko: 1, Rakúsko: 1, Švajčiarsko: 1, Slovensko: 1, Chorvátsko: 1)
Stav: zamietnutý

Výzva: H2020-INFRADEV-2016-2017 submitted for H2020-INFRADEV-2016-1
Topic: INFRADEV-03-2016-2017 - Individual support to ESFRI and other world-class research infrastructures
Type of Action: CSA
Názov: Instruct-ULTRA
Evidenčné číslo: Grant agreement No 731005
Koordinátor: Dr. Susan Daenke (University of Oxford, Oxford, UK)
Zodpovedný zahraničný riešiteľ: Prof. Dave Stuart (Instruct Director, Division of Structural Biology, University of Oxford, Oxford, UK)
Zodpovedný riešiteľ z CHÚ: Ing. Miloš Hricovíni, PhD. (member of Instruct Council: Observer, not-voting)
Počet riešiteľských inštitúcií: 17 (Francúzko: 2, Nemecko: 4, Česko: 1, Taliansko: 1, Izrael: 2, Anglicko: 2, Belgicko: 2, Holandsko: 1, Španielsko: 1, Slovensko: 1)
Doba riešenia: 01/01/2017–31/12/2020
Stav: schválený (the kick-off meeting for Instruct-ULTRA will be on February 22-23, 2017)

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2016

	A	**B**
Počet podaných projektov v 7. RP EÚ	0	0
Počet podaných projektov Horizont 2020	0	4

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

V nadväznosti na úspešnosť vo výzve OPVaV 2015/3.1/01-SORO a OPVaV 2015/1.1/01-SORO v oblastiach špecializácie RIS3 SK (v roku 2015 ústav získal 2 projekty v celkovej sume ca 19 mil. €; financie boli použité na nákup prístrojovej infraštruktúry), CHÚ SAV sa chcel zúčastniť ďalších výziev v druhej etape pre financovanie výskumných aktivít podľa prílohy v úspešných projektoch (financovanie nákupu spotrebného materiálu, energií a ľudských zdrojov). Tieto výzvy však v roku 2016 neboli realizované a ich vyhlásenie sa presunulo do roku 2017. Ústav sa do nich zapojí, nakoľko je oprávneným subjektom. Ústav sa však zapojil (ako partner) do troch projektov v rámci iných výziev vyhlásených v roku 2016:

Názov projektu: Centrum medicínskeho, bioaditívneho výskumu a výroby (CEMBAM)
Anglický názov: Centre of medicinal, bioadditive research and production (CEMBAM)
Kód projektu v ITMS2014+: NFP313010D020
Výzva: OPVaI-VA/DP/2016/1.2.1-03
Žiadateľ: Medical Vision, združenie
Partneri: Chemický ústav SAV, Technická univerzita v Košiciach, Panara, s.r.o.
Zodpovedný riešiteľ: MUDr. Stanislav Žiaran
Zodpovedný riešiteľ z CHÚ: Ing. Jaroslav Katrlík, PhD.
Doba riešenia: 06/2017 – 05/2022

Názov projektu: Multiomický dlhodobý strategický výskum kardiomyopatií (KARDIOMICS)
Anglický názov: Multiomics long-term strategic research of cardiomyopathies (KARDIOMICS)
Kód projektu v ITMS2014+: NFP313010C812
Číslo výzvy: OPVaI-VA/DP/2016/1.2.1-03
Žiadateľ: Beset s.r.o.
Partneri: QBSW, a.s., Biomedicínske centrum SAV, Chemický ústav SAV, Technická univerzita v Košiciach, Clinical Research Associate Slovakia s.r.o., MEDIVIS PRO, a.s.
Zodpovedný riešiteľ z CHÚ: RNDr. Ján Mucha, CSc.
Doba riešenia: 06/2017 – 05/2022

Názov projektu: HÍbkové mapovanie molekúl človeka a výskum biomarkerov Alzheimerovej choroby (BioMap)
Anglický názov: Detailed mapping of human molecules and Alzheimer´s disease biomarker research (BioMap)
Kód projektu v ITMS2014+: NFP313010B630
Číslo výzvy: OPVaI-VA/DP/2016/1.2.1-02
Žiadateľ: HighChem s.r.o.
Partneri: Chemický ústav SAV
Zodpovedný riešiteľ: Dr. Ing. Róbert Mistrík
Zodpovedný riešiteľ z CHÚ: Ing. Vladimír Pätoprstý, PhD.
Doba riešenia: 06/2017 – 05/2022

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Homológny model štruktúry ľudskej N-acetylglukózaminyltransferázy V (Kozmon, Tvaroška)
Navrhnutý bol trojrozmerný homológny model enzýmu N-acetylglukózaminyltransferázy (GnT-V).

Tento enzým sa zúčastňuje biosyntézy β-1-6-GlcNAc-vetvených N-glykánov, ktoré sa spájajú s rakovinou a rastom metastáz. Inhibícia GnT-V je preto kľúčovým cieľom pre vývoj antirakovinových liečiv. Vývoj špecifických a účinných inhibítorov GnT-V je však brzdený nedostatkom informácií o trojrozmernej štruktúre enzýmu a väzobných charakteristikách jeho substrátov. Trojrozmerný model môže byť preto užitočný pri štúdiu katalytického mechanizmu a dizajne inhibítorov GnT-V. Projekty SASPRO 0005/01/02, APVV-0484-12, VEGA 2/0064/15 (**Chemický ústav SAV**).

JANOŠ, Pavel - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. Three-dimensional homology model of GlcNAc-TV glycosyltransferase. In *Glycobiology*, 2016, vol. 26, p. 757-771. (3.283 - IF2015). (2016 - Current Contents). ISSN 0959-6658. (ADCA)

2.3.2. Aplikačný typ

Antitusický a antivírusový efekt glukurónoxylán sulfátov z *Fagus sylvatica* (Capek, Turjan, Vlčková)
Glukurónoxylán (GX) izolovaný z buka (*Fagus sylvatica*) bol cielene depolymerizovaný a modifikovaný za účelom prípravy GX líšiacich sa molekulovými hmotnosťami a obsahmi sulfátových skupín. Jednotlivé deriváty boli charakterizované chemickými ako i spektroskopickými metódami a ich farmakologický efekt bol verifikovaný in vivo na antitusickú aktivitu a reaktivitu hladkého svalstva a na antivírusový účinok proti vybraným typom ľudských vírusov. Niektoré deriváty vykazovali významný antitusický účinok, ktorý bol len mierne nižší ako účinok narkotického kodeínu (klinická prax). Zmeny v molekulovej hmotnosti a zvýšenie dávky GX sulfátov nemali vplyv na ich farmakologický účinok. Špecifická reaktivita dýchacích ciest hladkého svalstva nebola významne ovplyvnená derivátmi GX, teda nemajú bronchodilatačný účinok. Štúdie odhalili aj ich pozitívny účinok proti vírusu *Herpes simplex* (HSV) typu 1 a 2 a aktivita niektorých derivátov bola podobná ako u heparínu (referenčná látka). V menšom meradle boli aktívne aj proti vírusom Polio (detská obrna) a Dengue (tropická horúčka). Predpokladá sa, že ich antivírusové pôsobenie je v dôsledku inhibície vírusu viazať sa na bunkové receptory. Predbežné štúdie poskytli vedecký základ pre aplikáciu týchto derivátov vo farmácii a herbálnej medicíne. Projekty VEGA 2/0018/15 a APVV-00305-12 (**Chemický ústav SAV**).

PUJOL, Carlos Alberto - DAMONTE, Elsa Beatriz - TURJAN, Jozef - YANBO, K. Z - CAPEK, Peter. The antiviral potency of *Fagus sylvatica* 4*O*Me-glucuronoxylan sulfates. In *International Journal of Biological Macromolecules*, 2016, vol. 87, p. 195-200. (3.138 - IF2015). (2016 - Current Contents). ISSN 0141-8130. (ADCA)

SIVOVÁ, Veronika - NOSÁĽOVÁ, Gabriela - JUREČEK, Ľudovít - TURJAN, Jozef - VLČKOVÁ, Silvia - BYSTRICKÝ, Peter - KANTÁROVÁ, Dana - CAPEK, Peter. *Fagus sylvatica* glucuronoxylan sulfate – chemical profile and pharmacological view. In *Starch-Stärke*, 2016, vol. 68, p. 621-628. (1.523 - IF2015). (2016 - Current Contents). ISSN 0038-9056. (ADCA)

2.3.3. Medzinárodné vedecké projekty

Bioanalytické metódy s využitím lektínov a glykánov aplikované v oblasti glykomiky (Bertók, Filip, Holazová rod. Šedivá, Kluková, Hushegyi, Damborská rod. Píhiková, Belický, Damborský, Katrlík, Tkáč)
Štúdium bolo zamerané na využitie elektrochemických metód (najmä elektrochemickej impedančnej spektrometrie) a optických metód (povrchová plazmónová rezonancia, fluorescenčná microarray, „lateral flow immunoassays“ s využitím lektínov) pri príprave viacerých typov

biosenzorov a biočipov s možnosťou ich využitia v analýze reálnych vzoriek (séra pacientov s rakovinou prostaty) alebo v analýze biomarkerov rakoviny prostaty – najmä PSA (prostate specific antigen) pre možnú diagnostiku týchto ochorení. Niektoré z biosenzorov boli pripravené so zámerom potlačiť nešpecifické interakcie s využitím zwiteriónov na báze betaínov alebo oligoetylénglykolov na povrchovú modifikáciu týchto zariadení. Elektrochemická impedančná spektrometria bola použitá aj pri príprave glykánových biosenzorov na detekciu chrípkových vírusov. Projekty FP7-311532, FP7-317420 a NPRP 6-381-1-078 (**Chemický ústav SAV**).

BELICKÝ, Štefan - KATRLÍK, Jaroslav - TKÁČ, Ján. Glycan and lectin biosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 37-47. (3.378 - IF2015). (2016 - WOS Core Collection, Scopus). ISSN 0071-1365. (ADMA)

DAMBORSKÝ, Pavel - ŠVITEL, Juraj - KATRLÍK, Jaroslav. Optical biosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 91-100. (3.378 - IF2015). (2016 - WOS Core Collection, Scopus). ISSN 0071-1365. (ADMA)

HAMMOND, Jules L. - FORMISANO, Nello - ESTRELA, Pedro - CARRARA, Sandro - TKÁČ, Ján. Electrochemical biosensors and nanobiosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 69-80. (3.378 - IF2015). (2016 - WOS Core Collection, Scopus). ISSN 0071-1365. (ADMA)

BERTÓK, Tomáš - DOŠEKOVÁ, Erika - BELICKÝ, Štefan - HOLAZOVÁ, Alena - LORENCOVÁ, Lenka - MISLOVIČOVÁ, Danica - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica - PLIČKA, Robert - KREJČÍ, Jan - ILČÍKOVÁ, Markéta - KASÁK, Peter - TKÁČ, Ján. Mixed zwitterion-based self-assembled monolayer interface for impedimetric glycomic analyses of human IgG samples in an array format. In *Langmuir*, 2016, vol. 32, p. 7070-7078. (3.993 - IF2015). (2016 - Current Contents). ISSN 0743-7463. (ADCA)

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KLUKOVÁ, Ľudmila - FILIP, Jaroslav - BELICKÝ, Štefan - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. In *Analyst*, 2016, vol. 141, p. 4278-4282. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654. (ADCA)

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PIHÍKOVÁ, Dominika - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - BELICKÝ, Štefan - BERTÓK, Tomáš - KASÁK, Peter - MUCHA, Ján - TKÁČ, Ján. Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. In *Proteomics*, 2016, vol. 16, p. 3085-3095. (4.079 - IF2015). (2016 - Current Contents). ISSN 1615-9853. (ADCA)

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2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2016/ doplnky z 2015	B Počet v r. 2016/ doplnky z 2015	C Počet v r. 2016/ doplnky z 2015
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**1 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**2 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**	**0 / 0**	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**67 / 1**	**0 / 0**	**0 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**3 / 0**	**0 / 0**	**0 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**2 / 0**	**0 / 0**	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 0**	**0 / 0**	**0 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**1 / 0**	**0 / 0**	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**2 / 0**	**0 / 0**	**0 / 0**

15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**7 / 0**	**0 / 0**	**0 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**6 / 0**	**0 / 0**	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**1**	**0**	**0**
18. Ostatné vydané periodiká	**0**	**0**	**0**
19. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**2 / 0**	**0 / 0**	**0 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**	**0 / 0**	**0 / 0**

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora
B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu podľa IF z roku 2015 (zdroj JCR)	**Q1**	**Q2**	**Q3**	**Q4**	**spolu**
Počet článkov / doplnky	31/0	24/0	10/0	5/1	70/1
Kvartil vedeckého časopisu podľa SJR z roku 2015 (zdroj Scimago)					
Počet článkov	44/0	18/0	8/1	0/0	70/1

Tabuľka 2g Ohlasy

OHLASY	**A** **Počet v r. 2015/ doplnky z r. 2014**	**B** **Počet v r. 2015/ doplnky z r. 2014**
Citácie vo WOS (1.1, 2.1)	2358 / 85	0 / 0
Citácie v SCOPUS (1.2, 2.2)	319 / 21	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	1 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	30 / 0	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	75/0
Prednášky a vývesky na domácich vedeckých podujatiach	49/0

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

KATRLÍK, Jaroslav - ZÁMOROVÁ, Martina - DAMBORSKÝ, Pavel - GEMEINER, Peter. Biochips for glycomics. In *European Biotechnology Congress 2016, May 5-7, 2016, Riga, Latvia*. (vyžiadaná prednáška - Dr. Katrlík)
Abstract published: In *Journal of Biotechnology*, 2016, vol. 231S, p. S11. ISSN 0168-1656. (AFE)

KATRLÍK, Jaroslav - ZÁMOROVÁ, Martina - DAMBORSKÝ, Pavel. Lectin and glycan-based microarrays in glycomics. In *Diagnosis within Micro-fluidics & Multiplexing Micro-arrays (MMM), April 20-21, 2016, Potsdam,-Golm, Germany*. (vyžiadaná prednáška - Dr. Katrlík)
Abstract published: In *Abstracts: Diagnosis within Micro-fluidics & Multiplexing Micro-arrays (MMM), April 20-21, 2016, Potsdam-Golm, Germany*. Berlin: M2-Automation, 2016, p. 20. (AFE)

LUX, Alexander. Reaction of apoplasmic barriers – endodermis and exodermis – to abiotic stress. In *Plant Biology Europe EPSO/FESPB 2016 Congress, June 26-30, 2016, Prague, Czech Republic*. (vyžiadaná prednáška - Dr. Lux)
Abstract published: *In Abstracts: Plant Biology Europe EPSO/FESPB 2016 Congress, June 26-30, 2016, Prague, Czech Republic. Prague: GUARANT International, 2016, T25.* http://www.europlantbiology2016.org/ (AFE)

PIHÍKOVÁ, Dominika - BERTÓK, Tomáš - BELICKÝ, Štefan - TKÁČ, Ján. Glycan analysis for detection of prostate cancer. In *Prosense Conference on Prostate Cancer Diagnosis: Cancer Diagnosis: Parallel Sensing of Prostate Cancer Biomarkers, 12-13 September 2016, Bath, UK*. (vyžiadaná prednáška - Dr. Tkáč)

ŠUTOVSKÁ, Martina - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - PAULOVIČOVÁ, Ema - MATULOVÁ, Mária - CAPEK, Peter. Plant glycoconjugates, structure, properties and biological activity. In *2016 Annual Summer Meeting of Korean Society for Glycoscience, July 4-6, 2016, Busan, South Korea*. (vyžiadaná prednáška - Dr. Capek)
Abstract published: In *Book of Abstracts: 2016 Annual Summer Meeting of Korean Society for Glycoscience, July 4-6, 2016, Busan, South Korea*. Busan: Korean Society for Glycoscience, 2016, p. 18. (AFE)

TKÁČ, Ján - BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Integration of nanotechnology into glycomics: Construction and application of glycan and lectin biosensors. In *2nd Glycobiology World Congress, August 29-31, 2016, Atlanta, USA*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *Proceedings of 2nd Glycobiology World Congress, August 29-31, 2016, Atlanta, USA*. In *Journal of Glycobiology*, 2016, vol. 4, Issue 2(Suppl), p. 55. ISSN 2168-958X. (AFE)

TKÁČ, Ján - BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ,

Dominika - BELICKÝ, Štefan. Biosensors with nanoscale controlled architecture applicable in glycomics and diagnostics. In *XXV. Biochemický sjezd, 13.-16.9.2016, Praha, Česká republika*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In STIBOROVÁ, Marie (ed.). *Sborník přednášek a posterů: XXV. Biochemický sjezd, 13.-16.9.2016, Praha, Česká republika*. Praha: Venice Praha, 2016, s. 48. ISBN 978-80-270-0331-0. (AFE)

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

KATRLÍK, Jaroslav - ZÁMOROVÁ, Martina - DAMBORSKÝ, Pavel. Development of lectin-based optical biochips and biosensors for determination of protein glycosylation. In *XIV. medzinárodná konferencia Súčasný stav a perspektívy analytickej chémie v praxi (ACP-Analytická chémia v praxi- Stav a perspektívy 2016), 3.-6. máj 2016, Bratislava*. (vyžiadaná prednáška - Dr. Katrlík)
Abstract published: In HROUZKOVÁ, Svetlana - MÁJEK, Pavel - SOCHR, Jozef (eds.). *Zborník abstraktov: XIV. medzinárodná konferencia Súčasný stav a perspektívy analytickej chémie v praxi (ACP-Analytická chémia v praxi- Stav a perspektívy 2016), 3.-6. máj 2016, Bratislava*. Bratislava: Nakladateľstvo STU, 2016, p. 41. ISBN 978-80-227-4556-7. (AFF)

MASTIHUBOVÁ, Mária - KIS, Peter - POTOCKÁ, Elena - MASTIHUBA, Vladimír. Selective chemo-enzymatic strategies for synthesis of phenylpropanoid glycosides. In *Conference of Organic Chemists*: *Advances in Organic Chemistry – Smolenice 2016, September 4-7, 2016, Smolenice, Slovakia*. (vyžiadaná prednáška - Dr. Mastihubová)
Abstract published: In ŠEBESTA, Radovan - SORÁDOVÁ, Zuzana - MEČIAROVÁ, Mária (eds.). *Program and Abstracts: Advances in Organic Chemistry – Smolenice 2016, September 4-7, 2016, Smolenice, Slovakia*. Bratislava: Igor Iliť-RádioPrint, 2016, p. 24, IL-03. ISBN 978-80-89867-00-4. (AFF)

PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - PRIBULOVÁ, Božena - SMRTIČOVÁ, Hana. Glykozylnitrometány - príprava, vlastnosti a využitie na syntézu glykomimetík. In *50 rokov Katedry organickej chémie, 8.-10. jún 2016, Košice*. (vyžiadaná prednáška - Dr. Petruš)
Abstract published: In KUDLIČKOVÁ, Zuzana a kol. (eds.) *Zborník z konferencie: 50 rokov Katedry organickej chémie, 8.-10. jún 2016, Košice, Slovensko*. Košice: Univerzita Pavla Jozefa Šafárika, 2016, s. 14-15. ISBN 978-80-8152-428-8. (AFF)

SASINKOVÁ, Vlasta. Chemická analýza Ramanovou mikroskopiou. In *Thermo Scientific Discovery Days 2016, 15. 6. 2016, Bratislava*.

ŠALINGOVÁ, Anna - OSTROŽLÍKOVÁ, Mária - MATULOVÁ, Mária - UHLIARIKOVÁ, Iveta - KOLNÍKOVÁ, Miriam - BEHÚLOVÁ, Darina. Novinky v diagnostike porúch metabolizmu kreatínu. In *21. Kolokvium o dedičných metabolických poruchách: Neurometabolické ochorenia, 1. december 2016, Slovenská spoločnosť klinickej biochémie SLS, Bratislava*. (vyžiadaná prednáška - Dr. Šalingová)

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

CAPEK, Peter. Structural features and biological effects of glycoconjugates isolated from medicinal plants. In *Department of Organic and Pharmaceutical Technology, Wroclaw University of Science and Technology, Wroclaw, Poland, November 16, 2016*.

MASTIHUBA, Vladimír. Glykozidázy ako nástroj biokatalýzy. In *Slovenská chemická spoločnosť pri SAV, cyklus Chemické horizonty, 27. 10. 2106, Bratislava*.

ŠUTOVSKÁ, Martina - FRAŇOVÁ, Soňa - PAWLACZYK, Izabela - MATULOVÁ, Mária - CAPEK, Peter. Pharmacodynamic properties of plant glycoconjugates. In *Department of Biotechnology, The Catholic University of Korea, Bucheon, South Korea, July 1, 2016*. (vyžiadaná prednáška - Dr. Capek).

TKÁČ, Ján - BERTÓK, Tomáš - KLUKOVÁ, Ľudmila - HUSHEGYI, András - PIHÍKOVÁ, Dominika - BELICKÝ, Štefan. Application of nanotechnology in glycomics and diagnostics. In *Seminar in Functional Food and Nanobiotechnology, European Commission, Directorate- General, Joint Research Centre, Ispra, Italy, November 24, 2016*. (vyžiadaná prednáška - Dr. Tkáč).

Publikované príspevky sú súčasťou prílohy C, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2016

2.7.1. Vynálezy, na ktoré bol udelený patent: 0

2.7.2. Prihlásené vynálezy: 1

V zahraničí - počet prihlásených patentov: 1

Číslo PV: US 2016/0208301 A1
Mená autorov: Biely Peter, Stringer Mary Ann, Spodsberg Nikolaj, Morkeberg Krogh Kristian Bertel Roemer
Názov vynálezu: Polypeptide having xylanase activity and polynucleotides encoding same
Majiteľ / spolumajiteľ: Novozymes AS
Krajina: Dánsko

2.7.3. Predané licencie: 0

2.7.4. Realizované patenty

Produkcia spór huby Trichoderma, ktorá je predmetom PP 5108-2008 (licencia bola predaná v minulosti) sa realizuje firmou Azoter, spol. s r. o., Nové Zámky, prevádzka Biozávod, Petrova Ves.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnot. projektov
Katrlík Jaroslav	APVV/bilaterálny	1
Katrlík Jaroslav	VEGA	2
Klaudiny Jaroslav	VEGA	1
Kóňa Juraj	VEGA	1
Mastihuba Vladimír	APVV/Dunajská stratégia 2016	1
Pätoprstý Vladimír	APVV/VV 2016	1
Pätoprstý Vladimír	VEGA	1
Stratilová Eva	APVV/VV 2016	1
Tkáč Ján	APVV/bilaterálny	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Iné informácie k vedeckej činnosti

Z celkového počtu 73 vedeckých prác v časopisoch je 68 publikovaných v periodikách evidovaných v Current Contents Connect (CCC), 3 práce sú v časopisoch evidovaných vo Web of Science (WOS) a Scopus a 2 práce v časopisoch neevidovaných v CCC, WOS a Scopus, pričom na 23 % z týchto prác sú autormi len pracovníci ústavu, 15 % prác je publikovaných v spolupráci s domácimi a 56 % so zahraničnými spoluautormi. V porovnaní s minulým rokom sa počty publikácií výrazne nezmenili (celkový počet: 76; práce v časopisoch evidovaných v CCC: 67; práce v impaktovaných časopisoch evidovaných vo WOS a Scopus: 7; ostatné práce: 2). Tento stav stále považujeme za nedostatočný. Potrebné je však poznamenať, že nadmerná administratívna záťaž mnohých vedeckých pracovníkov v súvislosti s implementáciou viacerých projektov OP ŠF a prípravou ďalších, znižuje ich kapacitu na vedeckú prácu a publikačnú aktivitu.

Impakt faktor periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.279 do 9.848 (v 18 prípadoch IF presahuje hodnotu 4.000 a v 36 prípadoch hodnotu 3.000), pričom jeho priemerná hodnota 3.103 (oproti vlaňajšej hodnote 3.405 mierne poklesol) vo všetkých prípadoch výrazne presahuje hodnoty medián impakt faktora pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.108 pre Chemistry Organic, 2.670 pre Biochemistry & Molecular Biology, 1.629 pre Polymer Science, 2.483 pre Microbiology, 2.137 pre Biotechnology & Applied Microbiology, 2.258 pre Chemistry Physical a 1.351 pre Plant Sciences), čo indikuje vysokú kvalitu publikovaných prác. Túto skutočnosť potvrdzujú aj údaje o quartiloch pre dané časopisy: podľa SJR sa 62 % z týchto časopisov nachádza v Q1 a až 87 % v Q1 a Q2. Podľa JCR je to 43 % v Q1 a až 77.5 % v Q1 a Q2.

Celkový počet citácií 2814 (z toho 2783 sú citácie vo WOS a SCOPUS - v porovnaní s minulým rokom je to nárast o 152) vzrástol oproti minulému roku o 124, čo možno tiež považovať za cenný kvantitatívny ale aj kvalitatívny ukazovateľ.

Prístup do elektronických databáz Thomson ISI (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (SciVerse-ScienceDirect, Wiley Online Library, Blackwell Synergy, SpringerLink, Knovel, Reaxys, SciFinder a iné) značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Apelujeme na kompetentných, aby tento prístup ostal zachovaný aj v budúcnosti. Aj keď o užitočnosti časovo obmedzených prístupov do plnotextových databáz niektorých vydavateľstiev, sprostredkovaných Ústrednou knižnicou SAV niet pochýb, značným prínosom pre pracovníkov CHÚ SAV by bolo získanie prístupu do plných textov vybraných časopisov z databáz ACS Publications (American Chemical Society), RSC Publishing (Royal Chemical Society), Thieme Journals (Thieme Medical Publishers), BenthamDirect (Bentham Science Publishers) a Taylor & Francis Group.

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

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri

získavaní grantov. Úhrnne sa riešilo 49 projektov - z toho 34 domácich (VEGA - 20, APVV - 14) a 15 zahraničných (4 projekty 7. RP EÚ, 7 projektov COST, 2 projekty v rámci medzivládnych dohôd o VTS, 1 bilaterálny projekt nadväzujúci na MAD a 1 iný projekt, pričom čerpané finančné prostriedky predstavujú sumu cca 778,9 tisíc €, z čoho je cca 395,4 tisíc € zo zahraničných projektov, 333,5 tisíc € z domácich projektov a 50,0 tisíc € je podpora medzinárodnej spolupráce z národných zdrojov (MVTS a APVV) na projekty 7. RP EÚ a COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezbečiť prevádzku pracoviska.

Dobudovaním technickej infraštruktúry pre glykomiku a biomedicínsky výskum v roku 2015 (získané finančné prostriedky z dvoch projektov OP ŠF vo výške 17,68 mil. € sa využili najmä na nákup prístrojov a príslušenstva) sa CHÚ SAV zaradil medzi najmodernejšie vybavené pracoviská v tejto oblasti.

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

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

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2016

Forma	Počet k 31.12.2016				Počet ukončených doktorantúr v roku 2016					
	Doktorandi				Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Interná zo zdrojov SAV	9	14	1	2	1	3	0	0	0	0
Interná z iných zdrojov	0	0	0	0	1	0	0	0	0	0
Externá	0	1	0	1	0	0	0	1	0	0
Spolu	9	15	1	3	2	3	0	1	0	0
Súhrn	24		4		5		1		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z interných foriem na externé a z externej formy na interné

Pôvodná forma	**Interná z prostriedkov SAV**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**	**Interná z iných zdrojov**	**Externá**	**Externá**
Nová forma	**Interná z iných zdrojov**	**Externá**	**Interná z prostriedkov SAV**	**Externá**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**
Počet	0	0	3	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2016 úspešnou obhajobou

Meno doktoranda	**Forma DŠ**	**Mesiac / rok nástupu na DŠ**	**Mesiac / rok obhajoby**	**Číslo a názov študijného odboru**	**Meno a organizácia školiteľa**	**Fakulta udeľujúca vedeckú hodnosť**
Ing. András Hushegyi	interné štúdium hradené z iných zdrojov	9 / 2012	8 / 2016	5.2.25 biotechnológie	Ing. Ján Tkáč DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Andrej Chyba	interné štúdium hradené z prostriedkov SAV	9 / 2011	2 / 2016	5.2.25 biotechnológie	Ing. Mária Mastihubová PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Ľudmila Kluková	interné štúdium hradené z prostriedkov SAV	9 / 2012	8 / 2016	5.2.25 biotechnológie	Ing. Ján Tkáč DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Zuzana Pakanová	interné štúdium hradené z prostriedkov SAV	9 / 2012	8 / 2016	4.1.22 biochémia	RNDr. Ján Mucha CSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Ing. Kristína Vadinová	interné štúdium hradené z prostriedkov SAV	9 / 2012	8 / 2016	4.1.22 biochémia	doc. Ing. Vladimír Farkaš DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

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

Názov študijného odboru (ŠO)	**Číslo ŠO**	**Doktorandské štúdium uskutočňované na** (univerzita/vysoká škola a fakulta)
organická chémia	4.1.16	Fakulta chemickej a potravinárskej technológie STU
organická chémia	4.1.16	Prírodovedecká fakulta UK
fyzikálna chémia	4.1.18	Akreditácia na FCHPT STU a Prif UK ale v roku 2016 sa neškolil žiadny doktorand
makromolekulová chémia	4.1.19	Fakulta chemickej a potravinárskej technológie STU
biochémia	4.1.22	Fakulta chemickej a potravinárskej technológie STU
biochémia	4.1.22	Prírodovedecká fakulta UK
mikrobiológia	4.2.7	Prírodovedecká fakulta UK
biotechnológie	5.2.25	Fakulta chemickej a potravinárskej technológie STU
biotechnológie	5.2.25	Prírodovedecká fakulta UK

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do 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)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Alžbeta Čížová, PhD. (IIa)
doc. Ing. Vladimír Farkaš, DrSc. (mikrobiológia)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta UK)	Ing. Hana Dudášová, PhD. (IIa)
Ing. Peter Gemeiner, DrSc. (biotechnológie)	Ing. Ján Tkáč, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Andrej Chyba, PhD. (IIb)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Ľudmila Kluková, PhD. (IIb)
Ing. Miloš Hricovíni, PhD. (chemická fyzika)		Ing. Marek Nemčovič, PhD. (IIa)
Ing. Miroslav Kóš, DrSc. (organická chémia)		Ing. Zuzana Pakanová, PhD. (IIb)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		Ing. Katarína Šuchová, PhD. (IIa)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		Ing. Kristína Vadinová, PhD. (IIb)
prof. RNDr. Alexander Lux, CSc. (odbor v zahraničí)		Ing. Andrej Chyba, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)

Ing. Vladimír Mastihuba, PhD. (biotechnológie)		Ing. Ľudmila Kluková, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		Ing. Zuzana Pakanová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Ján Tkáč, DrSc. (biochémia)		Ing. Kristína Vadinová, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		Mgr. Jana Žabková (Mgr., Vysoká škola zdravotníctva a sociálnej práce sv. Alžbety v Bratislave)

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2016

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	8	0	11	1
Celkový počet hodín v roku 2016	28	0	935	120

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

Tabuľka 3g Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	15
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	19
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	17
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	23
5.	**Počet oponovaných dizertačných a habilitačných prác**	13
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	8
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	4
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	10
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	1

3.6. Iné dôležité informácie k pedagogickej činnosti

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

V priebehu roka 2016 sa na CHÚ SAV školilo celkom 29 doktorandov (z toho 2 novoprijatí - v dennej forme štúdia), z ktorých 5 úspešne obhájilo doktorandskú dizertačnú prácu. Jedna externá doktorandka ukončila štúdium predčasne. Dúfame, že v budúcnosti bude viacej záujemcov o doktorandské štúdium a počty doktorandov na ústave budú stabilizované a obsadia sa všetky pridelené doktorandské miesta. Najväčší záujem zo strany študentov je najmä o študijný odbor biotechnológie. Dlhodobo menší záujem zo strany študentov je o odbory fyzikálna chémia, mikrobiológia, makromolekulová chémia a organická chémia a v ostatnom čase aj o biochémiu, napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov a týchto si prioritne podržia na doktorandské štúdium jednotlivé fakulty.

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2016, sa dá predpokladať, že v roku 2017 by mali doktorandskú dizertačnú prácu obhajovať 5 doktorandi.

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

Doktorandi a mladí vedeckí pracovníci sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Oceniť treba najmä ich aktivity počas Dňa otvorených dverí na ústave, ktorý sa pravidelne koná každý rok v novembri. Viacerí sa aktívne zapájajú aj do pedagogickej a popularizačnej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách a aktivity počas Dňa otvorených dverí v rámci Týždňa vedy a techniky na Slovensku. Za študijné a vedecké výsledky získali viacerí aj ocenenia (napr. na vedeckých konferenciách).

Iná pedagogická činnosť:

Ing. Zdenka Hromádková, PhD.
Vedenie odbornej praxe (1. roč. Ing. štúdia, Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie, študijný odbor Biotechnológia)
Počet hodín za semester: 60 h (ZS 2016/2017)

RNDr. Karin Kollárová, PhD.
Vedenie diplomovej praxe (1. roč. Mgr. štúdia, Prírodovedecká fakulta UK, Katedra fyziológie rastlín, študijný odbor Biológia, študijný program Fyziológia rastlín)
Počet hodín za semester: 240 h (2 x 120 h) (LS 2015/2016)

Ing. Ema Paulovičová, CSc.
Vedenie preddiplomovej praxe (1. roč. Ing. štúdia, Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie)
Počet hodín za semester: 60 h (ZS 2016/2017)

doc. Ing. Ladislav Petruš, DrSc.
Vedenie práce v rámci stredoškolskej odbornej činnosti (7. roč. 8-ročného gymnázia, Škola pre mimoriadne nadané deti a Gymnázium, Skalická cesta, Bratislava)
Počet hodín: 30 h

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2016 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

43. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 63 účastníkov, 10.05.-13.05.2016
Vedecký program konferencie bol rozdelený do štyroch sekcií: Medical Mycology, Ecology and Taxonomy of Yeasts, Yeast Biotechnology a Molecular and Cell Biology of the Yeasts. Na konferencii odznelo 28 prednášok, z ktorých 9 bolo vyžiadaných a hradených Komisiou pre kvasinky. Úvodnú prednášku s názvom „Study of mitophagy in the yeast Saccharomyces cerevisiae: function and regulation“, predniesol Dr. N. Camougrand (Francúzsko). Okrem prednášok bolo prezentovaných 25 plagátových vývesiek a v rámci sekcie „Poster highlights“ odznelo 9 krátkych prednášok mladých vedeckých pracovníkov a doktorandov. Komisia pre kvasinky vydala z podujatia Zborník abstraktov „43rd Annual Conference on Yeasts“ (ISSN 1336-4839). Zo 63 účastníkov bolo 34 zahraničných.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2017 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

44th Annual Conference on Yeasts/44. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 02.05.-05.05.2017, (Emília Breierová, 02/ 59410241, 02/ 59410262, chememi@savba.sk)

14th Bratislava Symposium on Saccharides "Glycochemistry for Biology and Medicine"/14. Bratislavské sympózium o sacharidoch "Glykochémia pre biológiu a medicínu", Kongresové centrum SAV, Smolenice, 25.06.-30.06.2017, (Jaroslav Katrlík, 02/ 59410258, chemjkat@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	7	3	0

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Peter Biely, DrSc.

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

(IUMS) (funkcia: člen)

Ing. Emília Breierová, PhD.

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

Ing. Hana Dudášová, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)

Ing. Peter Gemeiner, DrSc.

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

Ing. Ján Hirsch, DrSc.

American Chemical Society (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

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

Ing. Zdenka Hromádková, PhD.

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

Ing. Jaroslav Katrlík, PhD.

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

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Miroslav Kóóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

RNDr. Desana Lišková, PhD.

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

prof. RNDr. Alexander Lux, CSc.

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

Ing. Vladimír Mastihuba, PhD.

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

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)
Management Committee FPS COST Action CM1407 (funkcia: národný zástupca)

RNDr. Mária Matulová, DrSc.

American Chemical Society (funkcia: člen)

RNDr. Ján Mucha, CSc.

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

Ing. Jozef Nahálka, PhD.

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

RNDr. Zuzana Neščáková, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

Česká společnost chemická (funkcia: čestný člen)

Ing. Ján Tkáč, DrSc.

American Chemical Society (funkcia: člen)
Bioelectrochemical Society (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

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

Ing. Renáta Vadkertiová, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen Komisie pre kvasinky)

Zbierka kultúr kvasiniek

člen European Culture Collections´ Organization (ECCO)
člen World Federation for Culture Collections (WFCC)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Hricovíni Miloš	POLONEZ, National Science Centre, Poland	1
Katrlík Jaroslav	H2020-ICT-2016-1	6
Katrlík Jaroslav	H2020-MSCA-RISE-2016	9
Klaudiny Jaroslav	Austrian Science Fund (FWF)	1
Tkáč Ján	Canadian Glycomics Network (GlycoNet) and Canadian Networks of Centres of Excellence	1

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

V rámci MVTS (COST CM1101) pokračovala spolupráca (J. Katrlík) s Dr. G. Yordanovom (Faculty of Chemistry and Pharmacy, Sofia University, Bulharsko) v oblasti skúmania interakcií medzi plazmovými proteínmi a koloidnými polymérnymi nosičmi liečiv technikou povrchovej plazmónovej rezonancie (SPR) (jedna spoločná publikácia).

Výsledky z oblasti využitia lektínového microarray pre sledovanie glykozylačných zmien na cicavčích folikulárnych bunkách v rámci spolupráce (P. Gemeiner, J. Katrlík) s Prof. S. Desantisom (Department of Emergency and Organ Transplantation, University of Bari Aldo Moro, Taliansko) a s Dr. Martinom (Experimental Zooprophylactic Institute of Puglia and Basilicata, Foggia, Taliansko) boli prezentované v jednej spoločnej publikácii.

Spoločná publikácia rezultovala aj z projektovej MVTS (APVV-SK-SRB-2013-0028, J. Katrlík) s Prof. O. Nedić (Institute for the Application of Nuclear Energy - INEP, University of Belgrade, Belgrade, Srbsko) v oblasti skúmania glykozylačných zmien na glykoproteínoch ako potencionálnych biomarkeroch rakoviny hrubého čreva pomocou lektínovej microarray.

V rámci projektu COST Action TD1203, zameranom na zhodnotenie potravinového odpadu, pokračovala spolupráca s Dr. M. Aguedom (University of Liege, Gembloux Agro-Bio Tech, Department of Industrial Biological Chemistry, Belgicko). V spoločnej publikácii boli prezentované výsledky dosiahnuté extrakciou kyslých polysacharidov (pektín) z tekvicovej biomasy pomocou mikrovlnného žiarenia, pričom na získanie optimálnych parametrov bola použitá metóda RSM. V rámci spolupráce s prof. S. Tavmanom (Ege University, Engineering Faculty, Food Engineering, Izmir, Turecko) Izmire bol v roku 2016 podaný spoločný "SAS-TÜBITAK bilateral project". Medzi Celal Bayar University v Turecku a CHÚ SAV bola podpísaná dohoda o spolupráci.

Výsledky dosiahnuté v rámci projektovej MVTS (FP7 ITN PROSENSE; University of Bath, UK; INESC-MN – Microsystems and Nanotechnologies, Portugalsko; University of Lisboa, Portugalsko; Xeptagen SpA, Taliansko) v oblasti výskumu využitia lektínových biosenzorov a biočipov s rôznymi detekčnými platformami, boli predmetom dvoch spoločných publikácií.

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.

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 domácich agentúr VEGA a APVV a spolupráce s priemyselnou sférou ale aj v rámci MVTS a to najmä vo vedeckých programoch EÚ, bilaterálnych MAD, medziústavnej spolupráce a iných fondoch a nadáciách na podporu vedeckého výskumu. V rokoch 2008–2014 pribudla ešte významná účasť na nových výzvach OP ŠF OPVaV 2.1. a 4.1. a v roku 2014 aj na výzvach v programe HORIZONT 2020. V roku 2015 získal CHÚ SAV nenávratný finančný príspevok na dva projekty: jeden v rámci výzvy OPVaV-2015/3.1/01-SORO pre Bratislavský samosprávny kraj (ca 8,32 mil. €) a jeden v rámci výzvy OPVaV-2015/1.1/03-SORO pre mimobratislavké kraje (ca 9,86 mil €). V roku 2016 sa ústav zapojil (ako partner v 3 projektoch) do dvoch nových výziev ŠF EÚ (OPVaI-VA/DP/2016/1.2.1-03 a OPVaI-VA/DP/2016/1.2.1-02).

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

Základnými dokumentmi pracoviska sú: Zriaďovacia listina Chemického ústavu SAV č. 951/0214/2003 zo dňa 11. decembra 2003 a Dodatok č. 1 (z 19. 12. 2008) k Zriaďovacej listine Chemického ústavu SAV č. 448/G/12/2008 (ktorým sa s účinnosťou od 1. 1. 2009 mení forma hospodárenia z rozpočtovej na príspevkovú), Pracovný poriadok, Organizačný poriadok, Platový poriadok, Bezpečnostné predpisy, Traumatologický plán, Pokyny pre kontrolnú činnosť, Dohoda medzi ústavmi SAV sídliacimi v budove správcovanej Chemickým ústavom a tiež Kolektívna zmluva so Základnou organizáciou odborového zväzu. V súvislosti s viacerými zmenami v zákonoch NR SR, nariadeniach vlády SR, vyhláškach a pokynoch MZ SR týkajúcich sa ochrany zdravia pri práci s nebezpečnými faktormi boli v roku 2008, 2009 a 2014 novelizované relevantné predpisy pre práce s nebezpečnými chemickými faktormi, biologickým materiálom, GMO a pre zaobchádzanie so zdrojmi ionizujúceho žiarenia, aplikované na pracovné podmienky v CHÚ SAV a získali príslušné oprávnenia od kompetentných orgánov. V súčasnosti sa ústav uchádza o získanie certifikátov ISO pre laboratórium vody a NMR laboratórium.

Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí okolo 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedeckí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v roku 2016 mal ústav 6 držiteľov tohoto štipendia). Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov v rámci CHÚ SAV. V rámci programu SASPRO (First Call 2014) pôsobil na ústave jeden postdoktorand (nastúpil v roku 2015). V snahe získať mladých adeptov

vedy sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie diplomových prác, preddiplomová prax) a propagujú výsledky vedeckej činnosti (médiá, konferencie, semináre, letné školy, dni otvorených dverí).

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

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného projektu - Katedra bunkovej a molekulárnej biológie liečiv
Začiatok spolupráce: 2012
Zameranie: Stanovenie inhibičných aktivít sacharidových derivátov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

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 farmakodynamických vlastností glykokonjugátov izolovaných z liečivých rastlín, sladkovodných rias a cyanobaktérií.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 3 prezentácie na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - II. detská klinika LF UK a DFNsP v Bratislave, Oddelenie laboratórnej medicíny, Centrum dedičných metabolických porúch
Začiatok spolupráce: 2010
Zameranie: Biomedicínsky výskum v oblasti diagnostiky zriedkavých metabolických ochorení.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prezentácia na vedeckej konferencii.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Imunologický ústav
Začiatok spolupráce: 2009
Zameranie: Imunologický zápal. Sepsa.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Univerzitná nemocnica, Bratislava, Nemocnica Staré Mesto, Oddelenie klinickej imunológie a alergológie
Začiatok spolupráce: 2007
Zameranie: Diferenciálna diagnostika vaginálnych kandidóz u atopických pacientov.
Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

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

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

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

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného projektu - Katedra organickej chémie
Začiatok spolupráce: 2008
Zameranie: Syntéza inhibítorov glykozyltransferáz.
Zhodnotenie: Príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov - Katedra fyziológie rastlín
Začiatok spolupráce: 2007
Zameranie: Využitie rastlín pre dekontamináciu životného prostredia od toxických kovov a obohatenie poľnohospodárskych rastlín o dôležité minerálne látky a štúdium biologickej aktivity galaktoglukomanánových oligosacharidov vo vývinových procesoch a ochrane rastlín.
Zhodnotenie: Výsledkom spolupráce sú 4 publikácie a 5 príspevkov na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko
Začiatok spolupráce: 1995
Zameranie: Združené laboratórium Fourier Transform Infrared Spectroscopy
Zhodnotenie: Viď informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR
Začiatok spolupráce: 2007
Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Zhodnotenie: Viď informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR
Začiatok spolupráce: 2007
Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Zhodnotenie: Viď informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM
Druh spolupráce (spoločné pracovisko alebo iné): Podpísaná dohoda o spolupráci - Katedra chémie
Začiatok spolupráce: 2004
Zameranie: Riešenie vedecko-výskumných úloh, výchova absolventov a doktorandov a využívanie modernej prístrojovej techniky.
Zhodnotenie: Konzultácie a oponentúry Bc. a diplomových prác.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného VEGA projektu - Katedra biotechnológií
Začiatok spolupráce: 2011
Zameranie: Výskum biologicky aktívnych/funkčných necelulózových polysacharidov izolovaných z rastlín a agro-industriálnych a lesných odpadov.
Zhodnotenie: Výsledkom je 1 zborníková práca.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): a) Riešenie spoločných projektov VEGA a APVV; b) Neformálna spolupráca - Ústav biotechnológie
Začiatok spolupráce: 2006
Zameranie: a) Techniky imobilizácie pre vývoj viabilných celobunkových biokatalyzátorov oxidačno-redukčných reakcií; b) Testovanie antimikrobiálnej aktivity prírodných glykofenolík a ich analógov.
Zhodnotenie: Výsledkom spolupráce sú dve publikácie v štádiu prípravy.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biochémie a mikrobiológie
Začiatok spolupráce: 2010
Zameranie: Imunobiologická aktivita látok pre biomedicínske aplikácie.
Zhodnotenie: Výsledkom spolupráce je 1 poster a príprava 2 spoločných publikácií. Vedenie a obhajoba diplomovej práce.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biotechnológie
Začiatok spolupráce: 2012
Zameranie: Odstraňovanie iónov medi pomocou červených kvasiniek.
Zhodnotenie: Práca publikovaná v zahraničnom recenzovanom zborníku.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav biotechnológie a potravinárstva, Oddelenie potravinárskej technológie
Začiatok spolupráce: 2006
Zameranie: a) Štúdium enzýmových transglykozylačných reakcií; b) Hydrofóbne iónové párovanie v purifikácii a modifikácii biokatalyzátorov
Zhodnotenie: Výsledkom spolupráce je vedenie 1 diplomovej práce, letná odborná prax 1 študentky, 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie
Začiatok spolupráce: 2011

Zameranie: Syntéza glykozylačných činidiel a ich využitie na glykozyláciu heterocyklov.
Zhodnotenie: Odborná prax 1 študentky a 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného projektu (COST – EUROCAROTEN) - Ústav biotechnológie a potravinárstva, Oddelenie biochemickej technológie
Začiatok spolupráce: 2016
Zameranie: Skúmanie a stimulácia pigmentov produkovaných kvasinkami.
Zhodnotenie: Analýza, využitie a stimulácia produkcie mikrobiálnych pigmentov.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov - Ústav biochémie, výživy a ochrany zdravia, Oddelenie výživy a hodnotenia potravín
Začiatok spolupráce: 2010
Zameranie: a) Analýza nutraceutík a polysacharidových zložiek cereálii; b) Štúdium štruktúry a vlastností biologicky aktívnych sacharidov; c) Biosenzory pre stanovenie sacharidov.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko
Začiatok spolupráce: 1995
Zameranie: Združené laboratórium Fourier Transform Infrared Spectroscopy.
Zhodnotenie: Združené laboratórium Fourier Transform Infrared Spectroscopy, založené v roku 1995, je spoločným pracoviskom Ústavu anorganickej chémie SAV, Chemického ústavu SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Nový prístroj NICOLET 6700, zakúpený v roku 2008, je inštalovaný v spoločnom laboratóriu FTIR spektroskopie v priestoroch CHÚ SAV a slúži pre potreby výskumu v rámci uvedených inštitúcií, na pedagogické účely ako aj základné servisné merania. V roku 2010 bol spektrometer doplnený o ďalšie príslušenstvo. Neskôr bol doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť. V roku 2015 bolo pracovisko vybavené špičkovými prístrojmi: FT-IR Mikroskop Nicolet iN10 a FT-IR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FT-IR Raman (Thermo Fisher Scientific, Inc.) z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008 (379 tis. €). Výstupy v roku 2016: 2 publikácie a 3 prednášky.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko v rámci Národného centra NMR
Začiatok spolupráce: 2007
Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR).
Zhodnotenie: Dňa 11. mája 2007 bol podpísaný dokument „Zmluva a štatút o združení právnických osôb s názvom Národné centrum nukleárnej magnetickej rezonancie na Slovensku“ (NC NMR). Zmluvu podpísali: FCHPT, STU v Bratislave, FEI TU a UPJŠ v Košiciach, PriF UK, Chemický ústav SAV a Ústav merania SAV v Bratislave. NC NMR bolo vytvorené za účelom zabezpečovania potrieb NMR služieb v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami, zvyšovania vedomostného potenciálu v oblasti NMR. Sieť NC NMR tvoria Centrá NMR. Na CHÚ SAV je lokalizované Centrum pre štúdium dynamiky a interakcií biomolekúl, ktoré bolo v roku 2009 vybavené NMR prístrojmi Varian (600 MHz a 400 MHz). V roku 2015 bolo pracovisko vybavené (z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008) špičkovými NMR prístrojmi Bruker: NMR Spectrometer Avance III HD 600MHz (2,344 mil. €) a Avance III HD 400MHz (1,021 mil. €).

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

Názov univerzity/vysokej školy a fakulty: Fakulta biotechnológie a potravinárstva SPU
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko
Začiatok spolupráce: 2009
Zameranie: Kvalita surovín a potravín.
Zhodnotenie: Dňa 2. septembra 2009 Chemický ústav SAV a Fakulta biotechnológie a potravinárstva SPU v Nitre podpísali dokument „Dohoda o vytvorení spoločného pracoviska metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu“. Cieľom spoločného pracoviska, ktoré je umiestnené v priestoroch CHÚ SAV v Bratislave a Katedry biochémie a biotechnológie FBP SPU v Nitre, je príprava a realizácia vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky a výchova odborných, vedeckých a pedagogických pracovníkov. V rokoch 2011 a 2013 pracovisko implementovalo projekty ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“ a "Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií“ (výzva OPVaV-2013/1.1/02-SORO, 2,88 mil. €), v rámci ktorých sa obstarala špičková prístrojová technika.

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

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

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

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií
Začiatok spolupráce: 2006

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

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Vedeckovýskumná základňa SZU, Oddelenie mikrobiológie
Začiatok spolupráce: 2010
Zameranie: Štúdium imunobiologických vlastností polysacharidových konjugátov in vivo.
Zhodnotenie: Experimentálne vakcinácie polysacharidovými konjugátmi, odbery krvi a orgánov podľa platného protokolu.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Katedra organické chemie
Začiatok spolupráce: 2010
Zameranie: Syntéza a cytotoxická aktivita sacharidových derivátov.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie.

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

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

Názov univerzity/vysokej školy a fakulty: Wroclaw University of Technology, Poland
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov - Division of Medicinal Chemistry and Microbiology, Chemistry Department
Začiatok spolupráce: 2010
Zameranie: Štruktúra a biologická aktivita fenolických glykokonjugátov z liečivých rastlín.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 2 prezentácie na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: The University of Burdwan, West Bengal, India
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Chemistry
Začiatok spolupráce: 2009
Zameranie: Polysacharidy a glykokonjugáty rias a liečivých rastlín.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: University of Adelaide, Glen Osmond, Australia
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - School of

Agriculture, Food and Wine, Australian Centre for Plant Functional Genomics
Začiatok spolupráce: 1994
Zameranie: Štúdium bunkových stien rastlín.
Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Universität für Bodenkultur Wien, Institüt für Chemie, Österreich
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca
Začiatok spolupráce: 2006
Zameranie: Štruktúrna analýza N- a O-viazaných oligosacharidov; MS/MS analýza glykokonjugátov; štruktúra glykopeptidov; definícia glykoprofilu krvného séra v diagnostike.
Zhodnotenie: Výsledkom spolupráce je publikácia v štádiu prípravy; krátkodobé študijné pobyty.

Názov univerzity/vysokej školy a fakulty: Nancy Université, INRA, Vandoeuvre-les-Nancy Cedex, Francúzsko
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Laboratoire Sols et Environnement
Začiatok spolupráce: 2011
Zameranie: Odpoveď koreňového systému a fyziológie Noccaea caerulescens v prítomnosti polyaromatických uhľovodíkov - význam pre fytoextrakciu v multikontaminovanom prostredí.
Zhodnotenie: Výsledkom spolupráce sú 2 publikácie odoslané do redakcie.

Názov univerzity/vysokej školy a fakulty: Centrum výskumu živočíšnej výroby, Nitra
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav včelárstva, Liptovský Hrádok
Začiatok spolupráce: 2005
Zameranie: Štúdium látok vo včelej larválnej kašičke s antipatogénnym účinkom voči niektorým larválnym patogénom.
Zhodnotenie: Pripravovaná 1 spoločná publikácia a získanie vzoriek materských kašičiek.

Názov univerzity/vysokej školy a fakulty: Botanický ústav AVČR
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca
Začiatok spolupráce: 2009
Zameranie: Výskum nových sladkovodných rias a cyanobaktérií s významnou produkciou extracelulárnych polysacharidov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

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

Názov univerzity/vysokej školy a fakulty: University of Bari "Aldo Moro", Bari, Italy
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Emergency and Organ Transplantation
Začiatok spolupráce: 2012
Zameranie: Aplikácia lektínových microarray pre sledovania špecifickej expresie glykokonjugátov ako markerov funkčného stavu systému na celých živočíšnych bunkách (folikuly, vajíčka).

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: University of Belgrade, Belgrade, Serbia
Druh spolupráce (spoločné pracovisko alebo iné): Bilaterálny projekt APVV-SK-SRB - Institute for Applied Nuclear Energy (INEP)
Začiatok spolupráce: 2012
Zameranie: Lektínové microarray biočipy pre charakterizáciu glykánových štruktúr proteínov IGF systému ako nástroj pre výskum, diagnostiku a terapiu kolorektálneho karcinómu.
Zhodnotenie: Výsledkom je 1 spoločná publikácia a 2 prednášky na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Université Blaise Pascal, Aubiere, Francúzsko
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca a bilaterálny projekt MVTS - Institut de Chimie de Clermont-Ferrand (ICCF)
Začiatok spolupráce: 2013
Zameranie: NMR štúdium štruktúry biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody.
Zhodnotenie: Publikácia v štádiu prípravy.

Názov univerzity/vysokej školy a fakulty: Ege University, Engineering Faculty, Izmir, Turkey
Druh spolupráce (spoločné pracovisko alebo iné): Podpísaná dohoda o spolupráci - Food Engineering Department
Začiatok spolupráce: 2014
Zameranie: Izolácia a charakterizácia polysacharidov z agro-industriálnych a lesných odpadov.
Zhodnotenie: Výsledkom spolupráce je 1 zborníková práca. Spolupráca v rámci projektu COST.

Názov univerzity/vysokej školy a fakulty: University of Liege, Gembloux Agro-Bio Tech, Belgium
Druh spolupráce (spoločné pracovisko alebo iné): Spolupráca na riešení spoločného projektu - Department of Industrial Biological Chemistry
Začiatok spolupráce: 2013
Zameranie: Využitie mikrovlnnej extrakcie pri izolácii polysacharidov.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Laboratory of Glycoconjugate Chemistry
Začiatok spolupráce: 2006
Zameranie: Výskum imunomodulačných vlastností synteticky pripravených oligosacharidov in vivo a ex vivo.
Zhodnotenie: Výsledkom spolupráce sú 3 publikácie a 1 poster.

Názov univerzity/vysokej školy a fakulty: INRA, Centre de Recherche de Clermont-Ferrand-Theix, Saint-Genes-Champanelle, Francúzsko
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - UR454 Unité de Microbiologie
Začiatok spolupráce: 2013
Zameranie: Identifikácia štruktúr exopolymérnych látok produkovaných baktériou Staphylococcus xylosus.
Zhodnotenie: Publikácia v štádiu prípravy.

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

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

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

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

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

Názov univerzity/vysokej školy a fakulty: Faculty of Biotechnology and Food Sciences, Lodz University of Technology, Poland
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Institute of Fermentation Technology and Microbiology
Začiatok spolupráce: 2016
Zameranie: Metchnikowia pulcherrima - zdroj lipidov a pulcherimínu.
Zhodnotenie: Skríning produkcie lipidov a tvorby pulcherimínu u rôznych kmeňov kvasiniek Metschnikowia pulcherrima.

Názov univerzity/vysokej školy a fakulty: CEITEC Masarykova univerzita, Brno, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca
Začiatok spolupráce: 2015
Zameranie: Štúdium neväzbových interakcii sacharidov a reakčného mechanizmu

glykozyltransferáz použitím výpočtových metód.
Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie a 3 prezentácie na zahraničných konferenciách.

Názov univerzity/vysokej školy a fakulty: Rikkyo (St. Paul's) University, Tokyo, Japan
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - College of Science, Department of Chemistry
Začiatok spolupráce: 2015
Zameranie: Štúdium neväzbových interakcii sacharidova ich analógov ako možných inhibítorov použitím výpočtových metód.
Zhodnotenie: Výsledkom spolupráce je odborná stáž dvoch študentov z Japonska a postdoktorandský pobyt v Japonsku.

Názov univerzity/vysokej školy a fakulty: Celal Bayar University, Faculty of Engineering, Manisa, Turkey
Druh spolupráce (spoločné pracovisko alebo iné): Podpísaná dohoda o spolupráci - Food Engineering Department
Začiatok spolupráce: 2016
Zameranie: Valorizácia potravinových odpadov.
Zhodnotenie: Výsledkom spolupráce je 1 zborníková práca.

Názov univerzity/vysokej školy a fakulty: Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Department of Microstructure and Mechanics of Biomaterials
Začiatok spolupráce: 2014
Zameranie: Nanoštruktúra biopolymérov z mikrorias.
Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Univerzita Karlova a Všeobecní fakultní nemocnice, Praha, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca
Začiatok spolupráce: 2015
Zameranie: Dedičné metabolické ochorenia/GSD/ a štruktúrna analýza krvného ApoCIII/identifikácia O-viazaných oligosacharidov.
Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Lékařská fakulta Palackého univerzity, Olomouc, Česká republika
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav molekulární a translační medicíny
Začiatok spolupráce: 2014
Zameranie: Testovanie cytotoxickej a antimikróbnej aktivity sacharidových derivátov.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Faculty of Chemistry and Pharmacy, Sofia University, Sofia, Bulgaria
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie projektu COST CM1101
Začiatok spolupráce: 2011
Zameranie: Štúdium interakcií medzi plazmovými proteínmi, koloidnými polymernými nosičmi liečiv technikou povrchovej plazmovej rezonancie.
Zhodnotenie: Výsledkom spolupráce je jedna spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: Department of Earth Sciences, Uppsala University, Sweden
Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca – vedy o Zemi
Začiatok spolupráce: 2015
Zameranie: Analýza geologických vzoriek pomocou metód Ramanovej mikroskopie.
Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

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

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6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

Fakultná nemocnica Trenčín, Onkologické oddelenie:
Predúprava a meranie vzoriek sér pacientov s onkologickým ochorením (rakovina hrubého čreva, prsníka a prostaty) pred a po liečbe, resp. zákroku s cieľom identifikovať potenciálne zmeny v glykoprofile vybraných proteínov v súvislosti s ochorením.

Nemocnica sv. Michala, a.s., Oddelenie klinickej biochémie a hematológie, Bratislava:
Spoločný biomedicínsky výskum v oblasti diagnostiky zriedkavých metabolických ochorení.

HPL spol. s r.o.:
Podpísaná dohoda o spolupráci v oblasti diagnostických analýz biologických materiálov.

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

7.1. Spoločné pracoviská s aplikačnou sférou

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

Názov pracoviska: Saneca-Infraštruktúra-HL
Partner(i): Saneca Phamaceuticals, a.s.
Zameranie: Aplikovaný výskum v oblasti biomedicíny
Rok založenia: 2015
Zhodnotenie: Dňa 17. augusta 2015 Chemický ústav SAV a súkromná spoločnosť Saneca Pharmaceuticals a.s., Hlohovec podpísali dokument „Zmluva o spolupráci“ vyplývajúci z realizácie projektu ŠF EÚ "Technická infraštruktúra výskumného pracoviska" s cieľom vytvorenia a vybavenia pracoviska lokalizovaného v priestoroch spoločnosti Saneca (Hlohovec), ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie, izolácie a finálnej purifikácie dôležitých prírodných látok resp. ich prekurzorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko vybavené prístrojovou technikou v hodnote 9,86 mil. €. Prístrojovú techniku využívajú všetky pracoviská združené v klastri Omics4Health (O4H). V súčasnosti sa pripravujú ďalšie spoločné projekty do aktuálnych výziev OP ŠF.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Pôsobenie rôznych typov endoxylanáz na natívne bunkové steny rastlín (Action of different types of endoxylanases on native plant cell walls)
Partner(i): Novozymes A/S, Bagsvaerd, Denmark
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2014
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2017
Objem získaných prostriedkov v bežnom roku (€): 10000
Stručný opis výstupu/výsledku: Študoval sa vplyv rôznych typov endo-?-1,4 xylanáz na pomleté piliny eukalyptu zbavené lipidov a voskov. Xylanázy z rodín GH10, GH11 a GH30 vytvárali podobné acetylované xylooligosacharidy. Výsledky potvrdzujú, že xylanázy z rodiny GH30 sú vysoko špecifické na hydrolýzu glukurónoxylánov.
Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje. Výsledky sú predmetom troch publikácií. Zodp. riešiteľ z CHÚ SAV: RNDr. Peter Biely, DrSc.

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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

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

Poradenská a expertízna činnosť v súvislosti s využívaním prístroja Iónová mobilita MS; separácia a identifikácia vzoriek organických látok. Odberateľ: ELMAX Žilina, a.s., Žilina – Bytčica; finančný prínos: 36000 €

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

LC-MS analýza vzoriek. Odberateľ: Saneca Pharmaceuticals a.s., Hlohovec; finančný prínos: 1640 €

LC-MS analýza vzoriek. Odberateľ: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Bratislava; finančný prínos: 1050 €

LC-MS analýza vzoriek. Odberateľ: Prírodovedecká fakulta UK, Bratislava; finančný prínos: 1425 €

LC-MS analýza vzoriek. Odberateľ: AH - Slovakia s.r.o., Bratislava; finančný prínos: 267 €

LC-MS analýza vzoriek. Odberateľ: Slovak MAK s.r.o., Leopoldov; finančný prínos: 140 €

LC-MS analýza vzoriek. Odberateľ: MIKROCHEM s.r.o, Pezinok; finančný prínos: 200 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 120 €

Stanovenie elementárneho zloženia (CHN), NMR, MS analýza vzoriek. Odberateľ: Ústav polymérov SAV, Bratislava; finančný prínos: 4887 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: 1) AH - Slovakia, s.r.o., Bratislava; finančný prínos: 979 €; 2) Bratislavská vrtná spoločnosť s.r.o., Bratislava; finančný prínos: 770 €; 3) Welldrilling s.r.o., Bratislava; finančný prínos: 424 €; 4) TRUMPF Slovakia, s.r.o, Košice; finančný prínos: 667 €; 5) XIMEA s.r.o., Marianka; finančný prínos: 445 €

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
Ing. Slavomír Bystrický, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Peter Gemeiner, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Miloš Hricovíni, PhD.	Infraštruktúra ESFRI v programe INSTRUCT pri MŠVVaŠ SR	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Zdenka Hromádková, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR “Národná sústava povolaní“	člen
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v národnom projekte "Národná sústava kvalifikácií" pre Štátny inštitút odborného vzdelávania SR	člen
	Sektorová rada pre chémiu a farmáciu v národnom projekte“Národná sústava povolaní III“ pri MPSVR SR	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
doc. Ing. Ladislav	Junior Chamber International - Porota na nomináciu	člen

Petruš, DrSc.	ocenenia Študentská osobnosť Slovenska v kategórii Prírodné vedy, chémia	
	Porota pre udeľovanie Cien Literárneho fondu za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	člen

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

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

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

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

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

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9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum
Ing. Štefan Belický	Ľudmila Kluková, Ján Tkáč	TL	Sladké tajomstvo chorôb	Quark, 2016, roč. XXII, č. 4, s. 40-41. ISSN 1335-4000	2016
Ing. Tomáš Bertók, PhD.		PB	Bio a nano pre prežitie	Petržalská super škola, III. ročník (pre žiakov 9. ročníka ZŠ), Bratislava	30.5.2016
Ing. Tomáš Bertók, PhD.		PB	Cukry v našom (nie vždy sladkom) živote	Bratislavská vedecká cukráreň, CVTI SR - Národné centrum pre popularizáciu vedy a techniky v spoločnosti, Bratislava; http://ncpvat.cvtisr.sk/sk/multimedialna-galeria/videoarchiv/vedecka-cukraren/ing.-tomas-bertok-phd.-eur-ing..html?page_id=9309	20.9.2016
Ing. Tomáš Bertók, PhD.	Marta Bartošovičová	IN	Pre úspešnú terapiu je dôležitá včasná diagnostika	NCP VaT, CVTI SR: Bratislavská vedecká cukráreň, Bratislava, 20.09.2016; http://vedanadosah.cvtisr.sk/tomas-bertok-pre-	2.9.2016

				uspesnu-terapiu-je-dolezita-vcasna-diagnostika	
Ing. Tomáš Bertók, PhD.	Peter Matijek	TL	30 pod 30/Veda a vzdelávanie: nChemik	Forbes, 2016, č. marec 2016, s. 46-52. ISSN 1338-2527	2016
RNDr. Peter Biely, DrSc.		TL	Ďalší krok v medzinárodnom partnerstve	Správy SAV, 2016, roč. 52, č. 5-6, s. 32. ISSN 0139-6307.	2016
RNDr. Peter Biely, DrSc.	Marc-André Lachance	TL	Half a century of the International Commission on Yeasts	Yeast Newsletter. June 2016, Vol. LXV, No. I, p. 17. ISSN 0513-5222.	2016
Ing. Emília Breierová, PhD.		TL	VIII. Culture Collection of Yeast (CCY), Institute of Chemistry, Slovak Academy of Sciences, Dúbravská cesta 9, 845 38, Bratislava, Slovakia: Recent publication	Yeast Newsletter. December 2015, Vol. LXIV, No. II, p. 41-42. ISSN 0513-5222	2016
Ing. Emília Breierová, PhD.		TL	XIX. Culture Collection of Yeast (CCY), Institute of Chemistry, Slovak Academy of Sciences, Dúbravská cesta 9, 845 38, Bratislava, Slovakia: Recent publication	Yeast Newsletter. December 2016, Vol. LXV, No. II, p. 35-36. ISSN 0513-5222	2016
Ing. Dominika Damborská		TL	Sladké markery rakoviny	Quark, 2016, roč. XXII, č. 9, s. 43. ISSN 1335-4000	2016
Ing. Dominika Damborská	Tomáš Bertók, Štefan Belický, Peter Kasák, Ján Tkáč	IN	Ultrasensitive detection and glycan analysis of a prostate cancer biomarker	Atlas of Science: another view on science. http://atlasofscience.org/ultrasensitive-detection-and-glycan-analysis-of-a-prostate-cancer-biomarker/	15.3.2016
Ing. Hana Dudášová, PhD.	Marta Balaščáková	PB	Kvasinky - naši každodenní spoločníci	Týždeň vedy a techniky 2016, Deň otvorených dverí CHÚ SAV, Bratislava	11.11.2016
Ing. Hana Dudášová, PhD.	Renáta Vadkertiová, Emília Breierová	EX	Úžasný svet kvasiniek (vedecký stánok)	Festival vedy – Európska noc výskumníkov 2016, Bratislava, Stará tržnica – vedecké stánky	30.9.2016
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	TL	Budúcnosť už klope na dvere	Quark, 2016, roč. XXII, č. 9, s. 42. ISSN 1335-4000	2016
Ing. Pavol Farkaš, PhD.	Miroslav Ferko, Martin Podstupka	TL	Čaro Interaktívnej konferencie	Správy SAV, 2016, roč. 52, č. 5-6, s. 11-13. ISSN 0139-6307	2016
doc. Ing. Vladimír Farkaš, DrSc.		PB	Biologická ochrana rastlín	Bratislavská vedecká cukráreň, CVTI SR - Národné centrum pre popularizáciu vedy a techniky v spoločnosti, Bratislava; http://ncpvat.cvtisr.sk/sk/multimedialna-	11.10.2016

				galeria/videoarchiv/vedecka-cukraren/doc.-ing.-vladimir-farkas-drsc..html?page_id=9350	
doc. Ing. Vladimír Farkaš, DrSc.	Marta Bartošovičová	IN	Úlohou vedy je nielen poznávať, ale aj slúžiť	Bratislavská vedecká cukráreň, CVTI SR - Národné centrum pre popularizáciu vedy a techniky v spoločnosti, Bratislava; http://vedanadosah.cvtisr.sk/vladimir-farkas-ulohou-vedy-je-nielen-poznavat-ale-aj-sluzit	28.9.2016
Ing. Michal Halaj		PB	Izolácia polysacharidov z kultivačného média mikrorias	Týždeň otvorených dverí FCHPT STU 2016, Bratislava	2.2.2016
Ing. Michal Halaj		PB	Škrob v potravinách	Chemický jarmok - CHEMSHOW 2016, FCHPT STU, Stánok č. 28, Bratislava	24.5.2016
RNDr. Alena Holazová, PhD.		PB	Sladké tajomstvá života?	Týždeň vedy a techniky 2016, Deň otvorených dverí CHÚ SAV, Bratislava	11.11.2016
Mgr. Elena Karnišová Potocká		PB	Enzýmy: odkiaľ sú a na čo nám slúžia	Týždeň vedy a techniky 2016, Deň otvorených dverí CHÚ SAV, Bratislava	11.11.2016
Ing. Jaroslav Katrlík, PhD.		TL	Biočipy pomôžu rýchlejšie odhaliť rakovinu	Denník Pravda, 24.8.2016, s. 4. ISSN 1335-4050. http://spravy.pravda.sk/domace/clanok/402975-biocipy-pomozu-rychlejsie-odhalit-rakovinu/	24.8.2016
Ing. Jaroslav Katrlík, PhD.	Dominika Damborská, Janka Bleyová	RO	Biočipy pre výskum rakoviny	RTVS, Rádio Regina BA, relácia Rádiobudík, 8.09 h a 8.17 h	23.8.2016
Ing. Jaroslav Katrlík, PhD.	Lenka Uherová	IN	Biočipy vďaka cukru prenasledujú rakovinu	DenníkN, Science.sk, 8.8.2016. http://science.dennikn.sk/clanky-a-rozhovory/ziva-priroda-a-chemicke-vedy/biologia-a-chemia/6349-biocipy-prenasleduju-rakovinu-vdaka-cukru	8.8.2016
Ing. Jaroslav Katrlík, PhD.	Pavel Damborský, Daniela Matejovičová	TV	Vedci zo SAV sa venujú vývoju biočipov	RTVS, relácia Správy RTVS, 11. 8. 2016. http://www.rtvs.sk/televizia/archiv/9936/102103#2640	11.8.2016
Ing. Jaroslav Katrlík, PhD.	SITA	IN	Vedci SAV vyvíjajú biočipy, ktoré vystopujú rakovinu	Sme.sk, Sme Tech, 8.8.2016. http://tech.sme.sk/c/20233525/slovenski-vedci-vyvijaju-biocipy-ktore-vystopuju-rakovinu.html	8.8.2016

Ing. Jaroslav Katrlík, PhD.	TASR	IN	Vedci zo SAV pracujú na biočipoch, ktoré budú stopovať rakovinu	Teraz.sk, Teraz/Zdravie, 6.8.2016. http://www.teraz.sk/zdravie/zdravie-vedci-zo-sav-pracuju-na-bioci/210687-clanok.html	6.8.2016
Ing. Jaroslav Katrlík, PhD.	Zuzana Vitková	IN	Slovenskí vedci vyvíjajú biočipy, ktoré majú zastaviť rakovinu	Netky.sk, sekcia Relax, 5.8.2016, 12:20. http://www.netky.sk/clanok/slovenski-vedci-vyvijaju-biocipy-ktore-maju-zastavit-rakovinu	5.8.2016
Ing. Jaroslav Katrlík, PhD.	Zuzana Vitková	IN	Vedci pracujú na obrovskej novinke: Budú stopovať rakovinu v tele?	Nový čas, Správy/Domáce sprývy. https://www.cas.sk/clanok/433169/vedci-pracuju-na-obrovskej-novinke-budu-stopovat-rakovinu-v-tele/	8.8.2016
Ing. Jaroslav Katrlík, PhD.	Zuzana Vitková	IN	Vedci SAV vyvíjajú biočipy, ktoré „stopujú“ rakovinu	DenníkN.sk, Komentáre, 7.8.2016. https://dennikn.sk/530762/newsfilter-tyzdna-treba-sa-zastat-slusneho-prokuratora-a-sudcu/	7.8.2016
Ing. Ľudmila Kluková, PhD.	Jaroslav Filip, Štefan Belický, Alica Vikartovská, Ján Tkáč	IN	When graphene meets lectin for sensitive glycan analysis	Atlas of Science: another view on science. http://atlasofscience.org/when-graphene-meets-lectin-for-sensitive-glycan-analysis/	20.12.2016
Ing. Ľudmila Kluková, PhD.	Štefan Belický	EX	Krásny nový bioelektronanosvet (interaktívny stánok)	TVT 2016 - Veda netradične, Bratislava-Incheba Expo	10.11.2016
Ing. Miroslav Kóš, DrSc.	Felícia Boronkayová	TL	Cukor. Fuj!?	Život, 2016, roč. 66, č. 24, s. 28-31. ISSN 0139 6323	18.6.2016
Ing. Miroslav Kóš, DrSc.	K. Lászlóová, F. Duchoň, J. Šajbidor, J. Salaj, P. Schreiber, Z. Špitalský, R. Sabo	TL	Objavovanie budúcnosti	PROFIT, Príloha PROFIT+: Čo nám uľahčuje život, 2016, č. 16-17, s. 28-31. ISSN 1335-4620	3.8.2016
Ing. Miroslav Kóš, DrSc.	Otakar Horák, Róbert Mistrík	IN	Slováci chcú zmapovať molekuly človeka, hľadajú nové cesty, ako diagnostikovať choroby	DenníkN.sk, Veda, 13.5.2016. https://dennikn.sk/458906/slovaci-chcu-zmapovat-molekuly-cloveka-chcu-pomoct-diagnostikou-chorob/	13.5.2016
Ing. Miroslav Kóš, DrSc.	Róbert Mistrík, Ján Mucha, Peter Turčáni	PB	Genóm človeka je prečítaný, teraz sú na rade malé molekuly	Prezentácia projektu spojená s tlačovou konferenciou, Štúdio L+S, Bratislava, 10.05.2016	10.5.2016
Ing. Miroslav Kóš, DrSc.	Róbert Mistrík, Ján Mucha, Peter Turčáni, Peter Kočiš	IN	Slováci mapujú molekuly človeka	Sme.sk, sekcia Sme Tech, 10.05.2016. http://tech.sme.sk/c/20159856/ako-slovaci-mapuju-molekuly-cloveka-sledujte-diskusiu-nazivo.html	10.5.2016
Ing. Miroslav Kóš,	Róbert Mistrík,	TL	Slovenskí vedci	Učiteľské noviny, 2016,	16.6.2016

DrSc.	Milica Šarmírová		mapujú malé molekuly v ľudskom organizme	roč. LXIII, č. 6, s. 7. ISSN 0139-5769	
Ing. Miroslav Kóš, DrSc.	Róbert Mistrík, Peter Turčáni, Elena Senková	TV	Slovenskí vedci chcú zmapovať malé molekuly v tele človeka	RTVS, relácia Správy RTVS, 14.5.2016. https://www.rtvs.sk/televizia/archiv/9936/94894	14.5.2016
Ing. Miroslav Kóš, DrSc.	Róbert Mistrík, Peter Turčáni, Rastislav Iliev	TV	Výskum o krok vpred: Vďaka slovenským vedcom bude študovanie ľudského tela jednoduchšie	Televízia TA3, relácia Slovensko: Správy, 15.5.2016. http://www.ta3.com/clanok/1083808/vdaka-slovenskym-vedcom-bude-studovanie-ludskeho-tela-jednoduchsie.html	15.5.2016
Mgr. Stanislav Kozmon, PhD.		PB	Využitie počítačov v chémii	Týždeň vedy a techniky 2016, Deň otvorených dverí CHÚ SAV, Bratislava	11.11.2016
Ing. Filip Květoň	Erika Došeková, Alena Holazová	EX	Chemické experimenty	Týždeň vedy a techniky 2016, Deň otvorených dverí CHÚ SAV, Bratislava	11.11.2016
Ing. Vladimír Mastihuba, PhD.		PB	Glykozidázy ako nástroj biokatalýzy	Slovenská chemická spoločnosť pri SAV, cyklus Chemické horizonty, FCHPT STU, Bratislava	27.10.2016
Ing. Vladimír Mastihuba, PhD.		TL	Chemické horizonty 2015: Chemické horizonty priniesli v roku 2015 opäť rad zaujímavých prednášok	ChemZi, 2015, roč. 11, č. 2, s. 224. ISSN 1336-7242	2016
RNDr. Ján Mucha, CSc.	Róbert Mistrík, Ján Mucha, Peter Turčáni, Dávid Vido	TV	Mapujú molekuly človeka	Televízia Markíza, relácia Televízne noviny, 11. 5. 2016. http://videoarchiv.markiza.sk/video/televizne-noviny/televizne-noviny/45755_televizne-noviny	11.5.2016
Ing. Vladimír Pätoprstý, PhD.		PB	Ako stanoviť narkotiká	Týždeň vedy a techniky 2016, Deň otvorených dverí CHÚ SAV, Bratislava	11.11.2016
Ing. Vladimír Pätoprstý, PhD.	Róbert Mistrík, Elena Senková	TV	Slovenský vedec zjednodušil výskum	RTVS, relácia Správy RTVS, 28. 12. 2016, 19:00. https://www.rtvs.sk/televizia/archiv/9936/114282#2110	28.12.2016
Ing. Ján Tkáč, DrSc.		PB	My career story	SAIA, Euraxess network, project REFLEX: European Workshop "Career Choice: Researcher", Hotel Crowne Plaza, Bratislava	9.11.2016
Ing. Ján Tkáč, DrSc.	András Hushegyi	IN	Ultrasensitive detection of influenza viruses by glycan biosensors	Atlas of Science: another view on science. http://atlasofscience.org/ultrasensitive-detection-of-	8.2.2016

				influenza-viruses-by-glycan-biosensors/	
Ing. Ján Tkáč, DrSc.	CVTI SR	IN	Vedec roka SR 2015	YouTube, 10.05.2016. https://www.youtube.com/watch?v=ccvHKedcLQM	10.5.2016
Ing. Ján Tkáč, DrSc.	Eva Majková, Pavol Bielik	TV	Téma dňa: Vedec roka 2015	TA3, Téma dňa, 10.5.2016. http://www.ta3.com/clanok/1083519/vedec-roka-2015-najvacsi-poziar-v-dejinach-kanady.html	10.5.2016
Ing. Ján Tkáč, DrSc.	Jakub Šimkovič	IN	Rozhovor: Ján Tkáč: Slovensko má čo robiť v úsilí pritiahnuť ľudí zo zahraničia	Euractiv Špeciál, 20.–24.6.2016, s. 4-5. http://euractiv.sk/wp-content/uploads/2016/07/EURACTIV-SPECIAL-062016-ERC-granty-a-Slovensko%E2%80%8F.pdf	24.6.2016
Ing. Ján Tkáč, DrSc.	Jana Tutková	IN	Choroby v tele hľadáme vďaka biočipom a cukru v bunkách	Hospodárske noviny, Sekcia HNStyle: Veda, 08.06.2016. http://style.hnonline.sk/veda/676217-choroby-v%20tele-hladame-vdaka	8.6.2016
Ing. Ján Tkáč, DrSc.	K. Mičieta, P. Šajgalík, P. Moczo, J.-P. Bourguignon, T. Jungwirth, I. Hermanovská, D. Straka, P. Rychterová, D. Malová, D. Ježová	IN	ERC grant - my personal experience	ERC day in Slovakia, 8.7.2016. https://www.youtube.com/watch?v=ehyasXfXqtk	8.7.2016
Ing. Ján Tkáč, DrSc.	Kata Martinková	RO	Ján Tkáč, vedec roka 2015, z Chemického ústavu SAV	RTVS, Rádio Slovensko, relácia Nočná pyramída - hosť, 30.05.2016. http://www.rtvs.sk/radio/archiv/11436/453943	30.5.2016
Ing. Ján Tkáč, DrSc.	Marta Bartošovičová	IN	Vedec roka SR 2015: Ján Tkáč z Chemického ústavu SAV	CVTI SR, Veda na dosah, sekcia Články, 10.5.2016. http://vedanadosah.cvtisr.sk/vedec-roka-sr-2015-jan-tkac-z-chemickeho-ustavu-sav	10.5.2016
Ing. Ján Tkáč, DrSc.	Martin Podstupka	TL	Sloboda dovolí robiť kvalitné veci	Správy SAV, 2016, roč. 52, č. 2, s. 4-6. ISSN 0139-6307	2016
Ing. Ján Tkáč, DrSc.	Matúš Német	IN	Ocenili slovenské osobnosti z oblasti výskumu a technológií: Toto sú naj vedci roka	Pluska.sk, sekcia Regióny/Bratislava, 11.05.2016. http://www.pluska.sk/regiony/bratislava/ocenili-slovenske-osobnosti-z-oblasti-vyskumu-technologii-toto-su-naj-vedci-roka.html	11.5.2016
Ing. Ján Tkáč, DrSc.	Milica Šarmírová	TL	Slovenská veda sa dostáva na úroveň	Učiteľské noviny, 2016, roč. LXIII, č. 6, s. 4-5.	16.6.2016

				ISSN 0139-5769	
Ing. Ján Tkáč, DrSc.	Miroslav Vajs	IN	Ocenili výskum rakoviny i netradičnú nabíjačku	Správy.Pravda.sk, sekcia Domáce, 11.05.2016. http://spravy.pravda.sk/domace/clanok/392737-ocenili-vyskum-rakoviny-i-netradicnu-nabijacku/	11.5.2016
Ing. Ján Tkáč, DrSc.	Rastislav Ovšonka	IN	Popradčan Ján Tkáč sa stal vedcom roka	http://www.podtatranske-noviny.sk/2016/05/popradcan-jan-tkac-sa-stal-vedcom-roka/	20.5.2016
Ing. Ján Tkáč, DrSc.	Slávka Habrmanová	IN	Vytvorili stroje tisíckrát menšie ako ľudský vlas a dostanú Nobelovu cenu	CVTI SR, http://vedanadosah.cvtisr.sk/vytvorili-stroje-tisickrat-mensie-ako-ludsky-vlas-a-dostanu-nobelovu-cenu	13.10.2016
Ing. Ján Tkáč, DrSc.	TASR	IN	Slovenskými vedcami roka sa stali Monika Rychtáriková a Ján Tkáč	http://domov.sme.sk/c/20159965/slovenskymi-vedcami-roka-sa-stali-monika-rychtarikova-a-jan-tkac.html	10.5.2016
Ing. Ján Tkáč, DrSc.	TASR, Monika Rychtáriková, Daniel Šlosár, Tibor Hianik, Tomáš Plecenik	IN	Vedcami roka 2015 sú Monika Rychtáriková a Ján Tkáč	Teraz.sk, sekcia Slovensko, 12.05.2016. http://www.teraz.sk/slovensko/vedci-roka-rychtarikova-tkac/196046-clanok.html	12.5.2016
Ing. Ján Tkáč, DrSc.	TASR/PR	IN	Najúspešnejší vedci roka	Info.sk, sekcia Správy: Tlačové správy, 11.05.2016. http://www.info.sk/sprava/97307/najuspesnejsi-vedci-roka-2015/	11.5.2016
Ing. Ján Tkáč, DrSc.	Zuzana Devera	IN	Vedec roka Ján Tkáč: Cukry na povrchu molekúl odhalia rakovinu v ranom štádiu	Trend.sk, Ekonomika, 10.5.2016. http://www.etrend.sk/ekonomika/vedec-roka-jan-tkac-cukry-na-povrchu-molekul-pomozu-odhalit-rakovinu-vo-velmi-vcasnom-stadiu.html	10.5.2016
Ing. Ján Tkáč, DrSc.	Zuzana Matkovská	IN	Vedec roka: Máme kvalitných, talentovaných ľudí	Sme.sk, sekcia Domov, 10.5.2016. http://domov.sme.sk/c/20160119/vedec-roka-mame-kvalitnych-talentovanych-ludi.html	10.5.2016
Ing. Ján Tkáč, DrSc.	Zuzana Palovic	TL	Jan Tkac/Scientist: I am a lot more prepared to solve problems	Our Eurostars - Denník N, 11.7.2016, s. 4. https://dennikn.sk/blog/our-eurostars-returning-international-slovaks/	11.7.2016
Ing. Renáta Vadkertiová, PhD.		TL	Microbe highlights: Taphrina gei-montani (strains CCY 058-007-001 to CCY 058-007-005), a new species parasiting herbaceous Rosaceae	MIRRI News, 2016, Issue 8, p. 4-5.	2016

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	13	tlač	18	TV	6
rozhlas	2	internet	27	exkurzie	3
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
43. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	10.-13.05.2016	63

9.3. Účasť na výstavách

Názov výstavy: AGROKOMPLEX 2016: 43. medzinárodná poľnohospodárska a potravinárska výstava
Miesto konania: Agrokomplex Nitra
Dátum: 18.8.2016
Zhodnotenie účasti: Ústav prezentoval kolekciu vzácnych sacharidov, ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta. V tejto súvislosti sa nadväzovali kontakty za účelom získania nových komerčných partnerov. Prezentovala sa tiež zbierka kvasiniek, farebné polysacharidy, chitooligosacharidy, biotechnologické využitie rastlinných kultúr in vitro pre zdravie človeka, vybrané publikácie pracovníkov ústavu a katalóg produktov.

Názov výstavy: Medzinárodný strojársky veľtrh 2016
Miesto konania: Agrokomplex Nitra
Dátum: 24.5.2016
Zhodnotenie účasti: V rámci tohoto 23. medzinárodného veľtrhu strojov, nástrojov, zariadení a technológií ústav prezentoval kolekciu vzácnych sacharidov, ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta.

Názov výstavy: Týždeň vedy a techniky na Slovensku: výstava Veda netradične - interaktívne vedecké prezentácie
Miesto konania: Bratislava - Výstavisko Incheba Expo
Dátum: 10.11.2016
Zhodnotenie účasti: Usporiadateľom podujatia bolo Ministerstva školstva, vedy, výskumu a športu SR a Národné centrum pre popularizáciu vedy a techniky v spoločnosti. V rámci expozície vo vedeckom interaktívnom stánku s názvom „Krásny nový bioelektronanosvet“ prezentovali Ing. Ľudmila Kluková, PhD. a Ing. Štefan Belický, výskumníci z Centra glykomiky z Chemického ústavu SAV. Návštevníci sa dozvedeli o možnostiach detekcie a využitia biosenzorov pri včasnej diagnostike ochorení, o praktickom využití biosenzorov vo výskume biomarkerov, ďalej akú úlohu

zohrávajú sacharidy v ľudskom tele a aký je ich význam pri vzniku a priebehu rôznych chorôb. Návštevníci mali tiež možnosť oboznámiť sa s mikroskopom a ukážkou, ako funguje jednoduchý model biosenzora.

Názov výstavy: Festival vedy - Európska noc výskumníkov 2016, 10. ročník
Miesto konania: Bratislava, Stará tržnica - Vedecké stánky (téma: Živá príroda a chemické vedy, Biológia, Mikrobiológia)
Dátum: 30.9.2016
Zhodnotenie účasti: V rámci expozície vo vedeckom stánku s názvom „Úžasný svet kvasiniek“ pracovníčky Zbierky kultúr kvasiniek (Ing. Emília Breierová, PhD., Ing. Hana Dudášová, PhD. a Ing. Renáta Vadkertiová, PhD.) predstavili návštevníkom kvasinky v ich rôznorodých tvaroch, farbách a vlastnostiach. Zároveň prezentovali, prečo sú kvasinky naši priatelia (používajú sa vo veľkej miere v potravinárskom priemysle) a prečo sú naši nepriatelia (spôsobujú ochorenia zvané mykózy). Návštevníci mali možnosť vidieť rôzne tvary a farby kvasinkových kultúr a niektoré vlastnosti, ktoré kvasinky majú.

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

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

9.5. Členstvo v redakčných radách časopisov

RNDr. Marek Baráth, PhD.

Chemical Papers (funkcia: Assistant Editor)

RNDr. Peter Biely, DrSc.

Yeast Newsletter (funkcia: Associate Editor)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

Ing. Pavol Farkaš, PhD.

Chemical Papers (funkcia: Assistant Editor)

Ing. Peter Gemeiner, DrSc.

Artificial Cells, Blood Substitutes, and Biotechnology (funkcia: člen Editorial Board)
Biotechnology and Applied Biochemistry (funkcia: člen Editorial Board)
Biotechnology Letters (funkcia: člen Editorial Board)
Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Hirsch, DrSc.

Chemical Papers (funkcia: Editorial Manager)

Ing. Miloš Hricovíni, PhD.

Carbohydrate Research (funkcia: člen Editorial Board)

Ing. Zdenka Hromádková, PhD.

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Kóóš, DrSc.

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

prof. RNDr. Alexander Lux, CSc.

Plant Root (funkcia: Editor)

Ing. Vladimír Mastihuba, PhD.

ChemZi (funkcia: člen Redakčnej rady)

Ing. Jozef Nahálka, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

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

Ing. Ján Tkáč, DrSc.

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

Ing. Igor Tvaroška, DrSc.

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

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Marek Baráth, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Biely, DrSc.

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

doc. Ing. Vladimír Farkaš, DrSc.

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

RNDr. Ján Gajdoš, PhD.

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

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)

Ing. Ján Hirsch, DrSc.

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

Ing. Miloš Hricovíni, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Zuzana Hricovíniová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Andrej Chyba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Karnišová Potocká

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Ing. Miroslav Koóš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Desana Lišková, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Anna Malovíková, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen Predsedníctva)

Ing. Mária Mastihubová, PhD.

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

RNDr. Mária Matulová, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Zuzana Neščáková, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Ema Paulovičová, CSc.

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

Ing. Lucia Paulovičová, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

doc. Ing. Ladislav Petruš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Mária Petrušová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Vlasta Sasinková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Ján Tkáč, DrSc.

Slovenská elektrochemická spoločnosť (funkcia: člen)

Ing. Jozef Turjan

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Iveta Uhliariková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

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

V rámci Týždňa vedy a techniky na Slovensku 2016 (TVT 2016), Chemický ústav SAV usporiadal Deň otvorených dverí CHÚ SAV (11.11.2016), počas ktorého viacerí pracovníci formou prednášok popularizovali svoju vedecko-výskumnú činnosť. Návštevníci mali tiež možnosť prezrieť si vybrané laboratóriá ústavu, zhliadnuť počítačovú prezentáciu vedecko-výskumnej práce a najvýznamnejších výsledkov jednotlivých oddelení CHÚ SAV a vo viacerých laboratóriách boli pripravené aj špeciálne popularizačné chemické pokusy a ukážky. Tento rok sa dňa otvorených dverí zúčastnilo 122 návštevníkov.

V rámci TVT 2016 sa ústav zúčastnil aj podujatia "Veda netradične", ktoré organizovalo Ministerstvo školstva, vedy, výskumu a športu SR a Národné centrum pre popularizáciu vedy a techniky v spoločnosti v dňoch 10.-11.11.2016 v priestoroch Incheba Expo. V interaktívnom stánku „Krásny nový bioelektronanosvet“ pracovníci Oddelenia glykobiotechnológie (Ing. Š. Belický a Ing. Ľ. Kluková, PhD.) prezentovali možnosti detekcie a využitia biosenzorov pri včasnej diagnostike ochorení, praktické využitie biosenzorov vo výskume biomarkerov, ďalej akú úlohu zohrávajú sacharidy v ľudskom tele a aký je ich význam pri vzniku a priebehu rôznych chorôb.

Pracovníci ústavu pokračovali v práci s talentovanými študentmi stredných škôl (Ing. E. Paulovičová, CSc. - vedenie seminárnych prác; doc. Ing. L. Petruš, DrSc. - vedenie práce v rámci stredoškolskej odbornej činnosti). V tejto súvislosti bolo odprezentovaných viacero popularizačných prednášok na gymnáziách v Bratislave.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25487
z toho	knihy a zviazané periodiká	25487
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		4
z toho zahraničné periodiká		3
Ročný prírastok knižničných jednotiek		5
v tom	kúpou	5
	darom	0
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		5

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		12
z toho	odborná literatúra pre dospelých	3
	výpožičky periodík	9
	prezenčné výpožičky	9
MVS iným knižniciam		6
MVS z iných knižníc		7
MMVS iným knižniciam		0
MMVS z iných knižníc		4
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

10.3. Používatelia

Tabuľka 10c Používatelia

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

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	2929

10.5. Iné informácie o knižničnej činnosti

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

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

– – –

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

– – –

11.3. Členstvo vo vedeckých kolégiách SAV

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (predseda)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Kóš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Koóš, DrSc.

- Knižničná rada SAV (člen)
- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)

Ing. Peter Magdolen

- Dislokačná komisia SAV (člen)

doc. Ing. Ladislav Petruš, DrSc.

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

Ing. Renáta Vadkertiová, PhD.

- Komisia SAV pre životné prostredie (člen)

11.5. Členstvo v orgánoch VEGA

Mgr. Peter Capek, PhD.

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

Ing. Ján Hirsch, DrSc.

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

Ing. Jozef Nahálka, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

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

Ing. Ján Tkáč, DrSc.

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

Ing. Igor Tvaroška, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	**Skutočnosť k 31.12.2016 spolu**	**v tom:**			
		zo ŠR od zriaďovateľa	**z vlastných zdrojov**	**z iných zdrojov**	**z toho:**
					ŠF EÚ
Výdavky spolu	3241696	1766985	260811	1213900	37268
Bežné výdavky	3241696	1766985	260811	1213900	37268
v tom:					
mzdy (610)	1492120	963012	23459	505649	19770
poistné a príspevok do poisťovní (620)	528231	163891	78053	286287	6295
tovary a služby (630)	966677	477294	147537	341846	2400
z toho: časopisy	49642	25788	23854	0	0
VEGA projekty	173286	173286	0	0	0
MVTS projekty	214871	50012	0	164859	0
CE	0	0	0	0	0
vedecká výchova	7520	7520	0	0	0
bežné transfery (640)	254668	162788	11762	80118	8803
z toho: štipendiá	162824	162788	36	0	0
transfery partnerom projektov	79910	0	0	79910	8803
Kapitálové výdavky	0	0	0	0	0
v tom:					
obstarávanie kapitálových aktív					
kapitálové transfery					
z toho: transfery partnerom projektov					

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	**Skutočnosť k 31.12.2016 spolu**	**v tom:**	
		rozpočtové	**z mimorozp. zdrojov**
Príjmy spolu	3410785	1766985	1643800
Nedaňové príjmy	2078848	1766985	311863
v tom:			
príjmy z prenájmu	2344	0	2344
príjmy z predaja výrobkov a služieb	308460	0	308460
iné	1059	0	1059
Granty a transfery (mimo zdroja 111)	1331937	0	1331937
v tom:			
tuzemské	819594	0	819594
z toho: APVV	311035	0	311035
iné	508559	0	508559
zahraničné	512343	0	512343
z toho: projekty rámcového programu EÚ	332255	0	332255
iné	180088	0	180088

13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2016 žiadnu nadáciu ani fondy.

14. Iné významné činnosti organizácie SAV

Organickou súčasťou ústavu je Zbierka kultúr kvasiniek (Culture Collection of Yeasts), ktorá je členom Organizácie európskych zbierok (ECCO), Svetovej federácie zbierok mikroorganizmov (WFCC), je registrovaná vo Svetovom katalógu kultúr (CCY 333) a má štatút medzinárodného ukladacieho centra patentovo chránených kmeňov (je v nej uložených asi 3500 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 350 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2016: 22 (17 pre CHÚ a 5 pre zahraničie). Získané kultúry v roku 2016: 53 (11 samostatne izolovaných a 4 získané z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 321 € a úspora predstavovala 960 € (510 € za kmene pre CHÚ, 330 € za izolované a získané kmene a 120 € za získané kmene zo zahraničia a iných pracovísk).

Chemický ústav SAV je vydavateľom časopisu *Chemical Papers* - jediného odborného

periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS). Impakt faktor časopisu v ostatných rokoch výrazne narastal (IF2012 = 0.879; IF2013 = 1.193; IF2014 = 1.468; IF2015 = 1.326). Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav SAV. V období 2007-2014 bolo publikovanie tlačenej aj elektronickej verzie časopisu v kompetencii vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). Od roku 2015 je vydavateľom a distribútorom De Gruyter Open Ltd., pričom Copyright a Ownership patrí Chemickému ústavu SAV. Od roku 2012 vychádza 12 čísiel ročne (predtým 6 čísiel).

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment vzácnych sacharidov. Tieto dodáva na zahraničný trh, niektoré ako jediný producent na svete. Ústav je v priamom styku s viacerými poprednými svetovými firmami a prostredníctvom obchodných partnerov má kontakty s najvýznamnejšími dodávateľmi čistých chemikálií. Celkové tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2016 sumu 231473 €, čo je o 537 € viac ako vlani.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletné analytické a štrukturálne charakterizácie produktov a študovaných látok iným pracoviskám. Príjmy zo služieb ústavom SAV, katedrám a ústavom vysokých škôl, rezortným a súkromným výskumným a výrobným organizáciám predstavovali 45729 €. Príjmy za rozbory vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely, predstavovali sumu cca 7070 €. V súčasnosti je snahou získať pre toto laboratórium príslušný certifikát kvality, čo by prispelo k zvýšeniu tržieb.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v r. 2016

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Biely Peter
Významná osobnosť SAV 2016
Oceňovateľ: Predsedníctvo SAV
Opis: Ocenenie za prínos akadémii a významnosť vedeckej práce.

Farkaš Pavol
Cena SAV za popularizáciu vedy
Oceňovateľ: Predsedníctvo SAV
Opis: Za propagáciu významu vedy a presadzovanie jej rozvoja (spolu s Ing. Miroslavom Ferkom, PhD.).

Gemeiner Peter
Medaila SAV za podporu vedy
Oceňovateľ: Vedecká rada SAV
Opis: Nummum Academiae Memorialem Tribuit pro singularibus meritis de studii scientiarum provehendis.

Hromádková Zdenka
Čestná plaketa SAV Dionýza Štúra za zásluhy v prírodných vedách

Oceňovateľ: Predsedníctvo SAV
Opis: Za prínosy vo výskume v oblasti polysacharidov a glykomateriálov.

Hushegyi András
Cena Predsedníctva SAV
Oceňovateľ: Predsedníctvo SAV
Opis: Za 2. miesto v Súťaži mladých vedeckých pracovníkov SAV.

Mucha Ján, Pätoprstý Vladimír
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Za významný prínos pri obstaraní a sprevádzkovaní špičkovej prístrojovej techniky pre štúdium v oblasti glykomiky.

Sasinková Vlasta
Cena SAV v oblasti medzinárodnej vedecko-technickej spolupráce
Oceňovateľ: Predsedníctvo SAV
Opis: Za prvý nález diamantu a moissanitu (SiC) v juhovýchodných Alpách (ocenená ako spoluriešiteľka v kolektíve RNDr. Mariána Janáka, DrSc.).

15.1.2. Iné domáce ocenenia

Bertók Tomáš
30 pod 30: Najväčšie talenty Slovenska/Veda a vzdelávanie
Oceňovateľ: Forbes
Opis: Vybraný časopisom Forbes (Slovensko) medzi 30 najväčších talentov Slovenska pod 30 rokov (článok: nChemik. In Forbes, 2016, marec 2016, s. 46-52)

Damborská Dominika
Cena Prevedy
Oceňovateľ: Občianske združenie PREVEDA a spoločnosť BASF Slovensko
Opis: Ocenenie celkovému víťazovi VIII. Interaktívnej konferencie mladých vedcov 2016 v sekcii Využitie inštrumentálnych metód v analýze biologicky významných látok.

Spišáková Mária
Diplom - v sekcii Organická, bioorganická, farmaceutická chémia, farmakológia a toxikológia
Oceňovateľ: Občianske združenie PREVEDA
Opis: Ocenenie príspevku na VIII. Interaktívnej konferencii mladých vedcov 2016

Tkáč Ján
Vedec roka SR
Oceňovateľ: Centrum vedecko-technických informácií SR, Slovenská akadémia vied a Zväz slovenských vedeckotechnických spoločností
Opis: Za výsledky výskumu, ktoré možno označiť za „Vedecký počin roka" (19. ročník súťaže - ocenenie za rok 2015).

Zámorová Martina
Diplom v súťaži 10 rokov s Prevedou – podporujeme tímových hráčov!
Oceňovateľ: Občianske združenie PREVEDA
Opis: Za príspevok v sekcii Bunkový metabolizmus, fyziológia, molekulárna biológia a genetika (klinické štúdie) na VIII. Interaktívnej konferencii mladých vedcov 2016.

15.2. Medzinárodné ocenenia

Bertók Tomáš
Danubius Young Scientist Award
Oceňovateľ: Austrian Federal Ministry for Science, Research and Economy; Institute for the Danube Region and Central Europe (Austria)
Opis: Za mimoriadne výsledky vo vedeckých aktivitách a výstupoch vo vzťahu k Dunajskému regiónu.

Hushegyi András
Diplom - Cena Metrohm 2016
Oceňovateľ: CEO Metrohm Česká republika s.r.o.
Opis: Za najlepšiu publikáciu mladého elektroanalytického chemika /do 35 rokov/.

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

Informácie o pracovisku sú voľne dostupné na internete (www.chem.sk) ako aj z knižných brožúr vydaných za roky 1953-1993, 1993-1997 a 1998-2002. Začiatkom roka 2015 bola vydaná brožúra k 60. výročiu založenia ústavu, ktorá obsahuje niektoré údaje o pracovisku až do roku 2013.

17. Problémy a podnety pre činnosť SAV

a) Zabezpečovanie a prideľovanie finančných prostriedkov zo ŠR

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

Apelujeme na P SAV, aby zachovalo a nezničovalo príspevok na vydávanie kvalitných vedeckých časopisov (periodík) ústavmi SAV.

Oceňujeme rozhodnutie P SAV, že v roku 2016 neznížilo finančné prostriedky na granty akademickej agentúry VEGA a že sa podieľalo na stabilizácii financovania projektov Verejnej výzvy APVV.

Oceňujeme ústretovosť a pomoc podpredsedu SAV pre ekonomiku prof. Koppela a pracovníkov Ú SAV pri riešení problémov súvisiacimi s finančnými korekciami v rámci projektov OP VaV ŠF EÚ.

b) Iné problémy pracoviska

Napriek tomu, že sa výrazne zmodernizovala prístrojová technika v Analytickom oddelení, ktoré bolo vďaka finančným prostriedkom (cca 17 mil. €) z troch implementovaných projektov OP ŠF, v ktorých bol ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiež došlo k zlepšeniu situácie aj v prístrojovom vybavení jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participoval ako partner), nedostatok kapitálových finančných prostriedkov neumožnil v roku 2016 výraznejšiu obnovu

prístrojového vybavenia v Realizačnom oddelení a v Zbierke kvasiniek. Zbierka má možnosť používať špeciálne prístroje zakúpené z prostriedkov OP ŠF a dva prístroje slúžiace na identifikáciu kvasiniek pomocou molekulárno-biologických metód zakúpené v r. 2013 z vlastných zdrojov; potrebuje však obnoviť a dokúpiť základné prístrojové vybavenie, zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie a uzatvoriť priestory v ktorých sa nachádza, aby mohla splniť štandardy, ktoré vyžaduje OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO). Toto ako aj úplná rekonštrukcia počítačovej siete v budove bude prioritou pri účasti v ďalších výzvach OP ŠF EÚ.

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

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

b) Iné podnety

Upozorňujeme na niektoré nedostatky v Osnove Správy o činnosti organizácie: a) podkapitola 4.2.1. by sa mala premenovať na "Členstvo a funkcie v medzinárodných vedeckých spoločnostiach a úniách", pretože členstvo v národných komitétoch sa v ELVYS vykazuje v podkapitole 9.6.; rozdielna terminológia v Tabuľkách 12a a 12b pre PO SAV; číslovanie tabuliek - dve tabuľky sú označené ako 2g); b) v záhlaví tabuľky 3e “Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium” treba slovo “spoločných” vynechať alebo nahradiť slovom “univerzitných”, pretože spoločné odborové komisie ukončili svoju činnosť už v roku 2010 a od roku 2011 existujú len odborové komisie pre doktorandské štúdium, ktoré sú zriaďované osobitne pre každú univerzitu, na ktorej bol príslušný odbor doktorandského štúdia akreditovaný; c) zosúladiť resp. rozlišovať (regionalita versus účasť) používanie výrazov "zahraničný" a medzinárodný" (napr. pri vedeckých konferenciách).

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

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

Apelujeme na P SAV, aby sledovalo situáciu prístupu do vedeckých databáz a nedopustilo, že dôjde k prerušeniu prístupu do nich.

Apelujeme na P SAV, aby sa pre SAV pokúsilo vybaviť výnimku zo zákona o verejnom obstarávaní, ktorý pracoviskám SAV spôsobuje značné komplikácie.

Správu o činnosti organizácie SAV spracoval(i):

Ing. Miroslav Kóš, DrSc., 02/ 59410254, 02/ 59410200
Oľga Švančarová (ekonomická časť), 02/ 59410208

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
Ing. Miroslav Kóš, DrSc.	Ing. Ján Tkáč, DrSc.

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2016

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Peter Biely, DrSc.	5	0.05
2.	Ing. Slavomír Bystrický, DrSc.	60	0.60
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	50	0.50
5.	Ing. Ján Hirsch, DrSc.	5	0.05
6.	Ing. Miroslav Kóš, DrSc.	100	1.00
7.	RNDr. Mária Matulová, DrSc.	100	1.00
8.	doc. Ing. Ladislav Petruš, DrSc.	100	1.00
9.	Ing. Ivan Šimkovic, DrSc.	100	1.00
10.	Ing. Ján Tkáč, DrSc.	130	1.30
11.	Ing. Igor Tvaroška, DrSc.	5	0.05
12.	RNDr. Mária Vršanská, DrSc.	70	0.70
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
Samostatní vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Mgr. Peter Baráth, PhD.	100	0.83
3.	Ing. Tomáš Bertók, PhD.	140	1.40
4.	Mgr. Jana Blahutová, PhD.	100	0.00
5.	Ing. Emília Breierová, PhD.	100	1.00
6.	Ing. Marek Bučko, PhD.	100	1.00
7.	Mgr. Peter Capek, PhD.	100	1.00
8.	Ing. Alžbeta Čížová, PhD.	100	1.00
9.	Ing. Hana Dudášová, PhD.	100	1.00
10.	Ing. Pavol Farkaš, PhD.	100	1.00
11.	Ing. Jaroslav Filip, PhD.	100	0.00
12.	RNDr. Ján Gajdoš, PhD.	100	0.33
13.	Ing. Eva Hrabárová, PhD.	100	1.00

14.	Ing. Miloš Hricovíni, PhD.	100	1.00
15.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
16.	Ing. Zdenka Hromádková, PhD.	100	1.00
17.	Ing. Jaroslav Katrlík, PhD.	130	1.25
18.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
19.	RNDr. Karin Kollárová, PhD.	100	1.00
20.	Mgr. Juraj Kóňa, PhD.	100	1.00
21.	Ing. Zuzana Košťálová, PhD.	100	0.17
22.	Mgr. Stanislav Kozmon, PhD.	100	1.00
23.	RNDr. Desana Lišková, PhD.	100	1.00
24.	prof. RNDr. Alexander Lux, CSc.	5	0.05
25.	RNDr. Eva Machová, PhD.	60	0.60
26.	RNDr. Anna Malovíková, PhD.	100	1.00
27.	Ing. Vladimír Mastihuba, PhD.	100	1.00
28.	Ing. Mária Mastihubová, PhD.	100	1.00
29.	RNDr. Ján Mucha, CSc.	100	1.00
30.	Ing. Jozef Nahálka, PhD.	100	1.00
31.	Ing. Marek Nemčovič, PhD.	100	0.33
32.	Ing. Ema Paulovičová, CSc.	100	1.00
33.	Ing. Lucia Paulovičová, PhD.	100	1.00
34.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
35.	RNDr. Mária Petrušová, PhD.	100	0.86
36.	Ing. Monika Poláková, PhD.	100	1.00
37.	Mgr. Vladimír Puchart, PhD.	100	1.00
38.	Ing. Eva Stratilová, PhD.	100	1.00
39.	Ing. Sergej Šesták, PhD.	100	1.00
40.	Ing. Katarína Šuchová, PhD.	100	0.00
41.	Ing. Renáta Vadkertiová, PhD.	100	1.00
42.	Ing. Alica Vikartovská, PhD.	124	1.24
Vedeckí pracovníci			
1.	Ing. Maroš Bella, PhD.	100	1.00
2.	RNDr. Anikó Bertóková, PhD.	100	0.00
3.	RNDr. Lucia Demovičová, PhD.	100	0.00
4.	Ing. Zuzana Firáková, PhD.	100	0.00
5.	Ing. Soňa Garajová, PhD.	100	0.00

6.	RNDr. Alena Holazová, PhD.	130	1.30
7.	Ing. Andrej Chyba, PhD.	100	1.00
8.	Ing. Ľudmila Kluková, PhD.	130	0.56
9.	Mgr. Lenka Kohútová, PhD.	100	0.00
10.	RNDr. Jana Korcová, PhD.	100	1.00
11.	RNDr. Ján Kozák, PhD.	100	1.00
12.	Mgr. Danica Kučerová, PhD.	100	0.00
13.	RNDr. Lenka Lorencová, PhD.	128	1.28
14.	Ing. Júlia Mičová, PhD.	100	0.00
15.	RNDr. Zuzana Neščáková, PhD.	100	0.25
16.	Ing. Zuzana Pakanová, PhD.	100	0.01
17.	RNDr. Klaudia Palenčárová, PhD.	100	1.00
18.	Ing. Božena Pribulová, PhD.	100	1.00
19.	Ing. Andrea Schenkmayerová, PhD.	100	0.00
20.	Ing. Vladimír Sládek, PhD.	100	0.25
21.	Mgr. Mária Šedivá, PhD.	100	1.00
22.	Ing. Kristína Vadinová, PhD.	100	0.02
23.	Mgr. Zuzana Vatehová, PhD.	100	1.00
24.	RNDr. Jana Ziburová, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Ing. Viera Bedrichová	100	1.00
3.	Ing. Štefan Belický	30	0.76
4.	Ing. Dominika Damborská	100	1.00
5.	Ing. Pavel Damborský	30	0.76
6.	Mgr. Erika Došeková	30	0.30
7.	Ing. Erika Farkašová	100	1.00
8.	Mgr. Elena Karnišová Potocká	8	0.08
9.	Ing. Peter Kis	8	0.08
10.	Ing. Filip Květoň	30	0.76
11.	Ing. Peter Magdolen	100	1.00
12.	RNDr. Vlasta Sasinková	100	1.00
13.	Ing. Hana Smrtičová	100	1.00
14.	Ing. Jozef Švec	100	1.00
15.	Ing. Jozef Tonka	100	1.00

16.	Ing. Jozef Turjan	100	1.00
17.	RNDr. Iveta Uhliariková	100	1.00
18.	Ing. Silvia Vlčková	100	1.00
19.	Mgr. Martina Zámorová	20	0.18
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Ema Podobová	100	1.00
2.	PhDr. Eva Riganová	100	1.00
3.	Mgr. Jana Žabková	100	1.00
Odborní pracovníci ÚSV			
1.	Mária Bednáriková	100	1.00
2.	Veronika Bencová	100	0.33
3.	Alena Bordáčová	100	1.00
4.	Helena Čigašová	100	1.00
5.	Eva Filipková	100	1.00
6.	Ľudmila Gažíková	100	1.00
7.	Jana Guthová	100	1.00
8.	Beáta Chválová	100	1.00
9.	Beáta Kalivodová	100	1.00
10.	Alžbeta Kanská	100	1.00
11.	Janka Komačková	100	1.00
12.	Ľudovít Kompaník	100	1.00
13.	Eva Morháčová	100	1.00
14.	Milan Novosad	100	1.00
15.	Nadežda Orthová	100	1.00
16.	Ondrej Pénzeš	100	1.00
17.	Margita Plšková	20	0.60
18.	Emília Rosová	100	1.00
19.	Kvetoslava Sabová	100	0.00
20.	Zdena Smolková	100	1.00
21.	Radoslava Šályová	125	1.25
22.	Alena Šoltésová	100	1.00
23.	Nadežda Šporánková	100	1.00
24.	Oľga Švančarová	100	1.00
25.	Vojtech Tóth	100	1.00
26.	Matej Vaš	100	1.00

27.	Mariana Vlčeková	100	1.00
28.	Erika Voleková	100	1.00
29.	Scarlett Weinzettlová	100	1.00
30.	Dana Žišková	125	1.25
Ostatní pracovníci			
1.	Ladislav Baláži	100	1.00
2.	Peter Cagáň	100	1.00
3.	Dušan Križan	100	1.00
4.	Helena Lešťanská	100	1.00
5.	Elena Masarovičová	100	1.00
6.	Eva Pazderová	100	1.00
7.	Miroslav Pír	100	1.00
8.	Ing. Viliam Podoba	100	0.75
9.	František Špetko	100	1.00
10.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Vedeckí pracovníci			
1.	Mgr. Miroslava Ďuranová, PhD.	31.3.2016	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	RNDr. Mária Dzúrová	31.8.2016	0.66
2.	Ing. András Hushegyi, PhD.	31.8.2016	0.66
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Antónia Barlíková	31.3.2016	0.25
Odborní pracovníci ÚSV			
1.	Jana Köplingerová	31.1.2016	0.08
2.	Mária Letáková	31.8.2016	0.66
3.	Lukáš Németh	19.1.2016	0.07
4.	Helena Rauscherová	7.3.2016	0.02
Ostatní pracovníci			
1.	Milan Chochlík	29.2.2016	0.06

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Ing. Marta Balaščáková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
2.	Ing. Štefan Belický	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
3.	Mgr. Zsófia Csáky	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
4.	Mgr. Dominika Čimborová	Prírodovedecká fakulta UK	4.1.22 biochémia
5.	Ing. Dominika Damborská	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
6.	Ing. Pavel Damborský	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
7.	Mgr. Erika Došeková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
8.	Mgr. Lucia Fraňová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
9.	Ing. Michal Halaj	Fakulta chemickej a potravinárskej technológie STU	4.1.19 makromolekulová chémia
10.	Mgr. Viera Hrivnáková	Prírodovedecká fakulta UK	4.1.16 organická chémia
11.	Mgr. Jana Jakubčinová	Prírodovedecká fakulta UK	4.1.16 organická chémia
12.	Mgr. Elena Karnišová Potocká	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
13.	Ing. Peter Kis	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
14.	Mgr. Tomáš Klunda	Prírodovedecká fakulta UK	4.1.16 organická chémia
15.	Ing. Tomáš Krajčovič	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
16.	Ing. Filip Květoň	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
17.	Mgr. Maroš Laho	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
18.	Mgr. Ivana Mišová	Prírodovedecká fakulta UK	4.1.22 biochémia
19.	Mgr. Marek Pápay	Prírodovedecká fakulta UK	4.1.22 biochémia
20.	Ing. Lucia Pokorná	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
21.	Ing. Mária Spišáková	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
22.	Mgr. Veronika Virčíková	Prírodovedecká fakulta UK	4.1.22 biochémia
23.	Mgr. Martina Zámorová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	RNDr. Iveta Uhliariková	Prírodovedecká fakulta UK	4.1.17 analytická chémia
2.	Ing. Silvia Vlčková	Prírodovedecká fakulta UK	4.1.16 organická chémia

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziústavná dohoda

1.) Odozva O-špecifických polysacharidov a cholera *(O-Specific polysaccharide responses and cholera)*

Zodpovedný riešiteľ:	Slavomír Bystrický
Trvanie projektu:	4.10.2014 / 31.3.2019
Evidenčné číslo projektu:	5R01AI106878-02
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Massachusetts General Hospital
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	National Institute of Allergy and Infectious Diseases, NIH, USA: 2872 €

Programy: Medzivládna dohoda

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

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2015 / 31.12.2016
Evidenčné číslo projektu:	APVV-SK-SRB-2013-0028
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Srbsko: 3
Čerpané financie:	APVV: 2430 €

Dosiahnuté výsledky:
Výsledky štúdia glykozylačných zmien u glykoproteínov ako potenciálnych biomarkerov rakoviny hrubého čreva pomocou lektínového microarray dosiahnuté v spolupráci s INEP, Univerzita v Belehrade, Srbsko boli publikované v spoločnej publikácii:

ŠUNDERIĆ, Miloš - ŠEDIVÁ, Alena - ROBAJAC, Dragana - MILJUŠ, Goran - GEMEINER, Peter - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Lectin-based protein microarray analysis of differences in serum alpha-2-macroglobulin glycosylation between patients with colorectal cancer and noncancer persons. In Biotechnology and Applied Biochemistry, 2016, vol. 63, p. 457-464. (1.429 - IF2015). (2016 - Current Contents). ISSN 0885-4513. (ADCA)

3.) Produkcia biosurfaktantov mikroorganizmami z oblakov: Dopad na mikrofyziku oblakov a biotechnológiu *(Production of biosurfactants by cloud microorganisms: Impact on cloud microphysics and application in biotechnology)*

Zodpovedný riešiteľ:	Mária Matulová
Trvanie projektu:	4.1.2016 / 29.12.2017
Evidenčné číslo projektu:	SK-FR-2015-0020
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Francúzsko: 3
Čerpané financie:	APVV: 2650 €

Programy: COST

4.) Európsky systém na podporu výskumu a aplikácií karotenoidov v potravinárstve a zdravotníctve *(European network to advance carotenoid research and applications in agro-food and health (EUROCAROTEN))*

Zodpovedný riešiteľ:	Emília Breierová
Trvanie projektu:	18.4.2016 / 17.4.2020
Evidenčné číslo projektu:	CMST COST Action CA15136
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Antonio J. Melendez-Martinez, Universidad de Sevilla, Sevilla
Počet spoluriešiteľských inštitúcií:	31
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 2625 €

Dosiahnuté výsledky:
Cieľom projektu je zvýšiť konkurencieschopnosť európskeho poľnohospodársko-potravinového priemyslu a podporu zdravia koordináciou výskumu kvasiniek produkujúcich karotenoidné pigmenty, ktoré sa budú využívať ako zdroje karoténov v potravinárstve a krmovinárstve. Výskum v r. 2016 bol zameraný na červené kvasinky rodov Rhodotorula, Sporidiobolus, Sporobolomyces, Cystofilobasidium a Phaffia, ktoré sú známymi producentmi karoténových pigmentov, hlavne beta-karoténu, gama-karoténu, torulénu, torularodínu a astaxantínu.

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

Zodpovedný riešiteľ:	Peter Gemeiner
Trvanie projektu:	15.6.2011 / 18.1.2016
Evidenčné číslo projektu:	CMST COST Action CM1101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Piotr Warszynski, Institute of Catalysis and Surface Chemistry, Krakow
Počet spoluriešiteľských inštitúcií:	30
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 600 €

Dosiahnuté výsledky:
Výsledky štúdia interakcií medzi plazmovými proteínmi a koloidnými polymernými nosičmi liečiv technikou povrchovej plazmovej rezonancie (SPR) dosiahnuté v spolupráci riešiteľských pracovisk boli publikované v spoločnej publikácii:

YORDANOV, Georgi - GEMEINER, Peter - KATRLÍK, Jaroslav. Study of interactions between blood plasma proteins and poly(butyl cyanoacrylate) drug nanocarriers by surface plasmon resonance. In Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, vol. 510, p. 309-316. (2.760 - IF2015). (2016 - Current Contents). ISSN 0927-7757. (ADCA)

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

Zodpovedný riešiteľ:	Zdenka Hromádková
Trvanie projektu:	22.11.2012 / 21.11.2016
Evidenčné číslo projektu:	FA COST Action TD1203
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. James Clark, Department of Chemistry, The University of York
Počet spoluriešiteľských inštitúcií:	23
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3208 €

Dosiahnuté výsledky:
Pokračovala spolupráca s Ege University, Engineering Faculty, Food Engineering, Izmir, Turecko. V roku 2016 bol podaný spoločný "SAS-TÜB?TAK bilateral project". Z Celal Bayar University v Turecku navštívil CHÚ SAV Dr. T. Yilmaz. Podpísaná bola kooperatívna dohoda medzi týmto pracoviskom a CHÚ SAV.
V spolupráci s univerzitou v Belgicku bola publikovaná práca zaoberajúca sa extrakciou kyslých polysacharidov z tekvicovej biomasy pomocou mikrovlnného žiarenia, pričom na získanie optimálnych parametrov bola použitá metóda RSM.

KOŠTÁLOVÁ, Zuzana - AGUEDO, Mario - HROMÁDKOVÁ, Zdenka. Microwave-assisted extraction of pectin from unutilized pumpkin biomass. In Chemical Engineering and Processing: Process Intensification, 2016, vol. 102, p. 9-15. (2.154 - IF2015). (2016 - Current Contents). ISSN 0255-2701. ADCA)

7.) Zhodnotenie vedľajších prúdov spracovania lignocelulózovej biomasy pre udržateľnú produkciu chemikálií, materiálov a palív pomocou technológií s nízkym dopadom na životné prostredie *(Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies)*

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	15.5.2014 / 14.5.2018
Evidenčné číslo projektu:	FPS COST Action FP1306
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Rafael Luque, Departamento de Quimica Organica, Universidad de Cordoba, Cordoba

Počet spoluriešiteľských inštitúcií:	30
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3500 €

Dosiahnuté výsledky:
Bola zvládnutá enzýmová glykozylácia tyrozolu (čiastočne aj hydroxytyrozolu) dalšími mono a disacharidmi. Pre ich chemickú glykozyláciu sa testovala cesta enzýmovej acylácie/deacylácie na jednoduchých modeloch ako regio- a chemoselektívna alternatíva k chemickým protekčným a deprotekčným technikám. Z výsledkov sa pripravuje spoločná publikácia.

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

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	16.3.2015 / 15.3.2019
Evidenčné číslo projektu:	CMST COST Action CM1407
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Bruno Botta, Universita degli Studi di Roma La Sapienza, Dipartimento di Chimica e Tecnologie del Farmaco, Rome
Počet spoluriešiteľských inštitúcií:	31
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3500 €

Dosiahnuté výsledky:
V apríli 2016 sa konal 2nd Meeting of COST Action CM1407. Organizovaný bol členmi projektu z Centro de Investigaciones Biológicas, Campus of Universidad Complutense de Madrid. Na tejto akcii sme prezentovali výsledky syntézy bioaktívnych glykofenolík so zameraním na acylácie monosacharidov fenolickými kyselinami selektívnymi chemickými a enzýmovými metódami. Pokračuje spolupráca s Dr. Carole Devaux (Luxembourg Institute of Health) a bola podpísaná dohoda o poskytovaní rôzne derivatizovaných stilbénov tomuto pracovisku na biologické testovanie. V súčasnosti sa hľadajú najvhodnejšie metódy ich syntézy. Takisto pokračuje spolupráca s Dr. Ľubicou Horákovou z Ústavu experimentálnej farmakológie a toxikológie SAV. Momentálne sa pripravuje acylovaný rutín. V rámci projektu všeobecne bol začiatkom roka spustený systém poskytovania látok, získaných syntézou alebo izoláciou z prírody členom biologických WGs na rôzne testovania.

MASTIHUBOVÁ, Mária - CHYBA, Andrej - KIS, Peter - POTOCKÁ, Elena - MASTIHUBA, Vladimír. Synthesis of sugars acylated by polyphenolic acids – chemical & enzymatic approaches. In Program and Book of Abstracts: 2nd Meeting of COST Action CM1407: Challenging Organic Synthesis Inspired by Nature – from Natural Products Chemistry to Drug Discovery, April 4-5, 2016, Madrid, Spain. Poster. (AFK)

9.) Systémy biokatalýzy *(Systems biocatalysis)*

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	20.11.2013 / 19.11.2017
Evidenčné číslo projektu:	CMST COST Action CM1303
Organizácia je	nie

koordinátorom projektu:	
Koordinátor:	Prof. Stefano Servi, The Protein Factory, Milano
Počet spoluriešiteľských inštitúcií:	25
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3500 €

Dosiahnuté výsledky:
Pokračovalo sa v štúdiu multienzýmovej sialyzácie in vitro v spolupráci so skupinou Prof. Wolf-Dietera Fessnera (Technische Universität Darmstadt, Germany). Z dosiahnutých výsledkov sa pripravuje spoločná publikácia.

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

Zodpovedný riešiteľ:	Igor Tvaroška
Trvanie projektu:	28.3.2012 / 27.3.2016
Evidenčné číslo projektu:	CMST COST Action CM1106
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Daniele Passarella, Universita degli Studi di Milano, Dipartimento di Chimica Organica e Industriale, Milano
Počet spoluriešiteľských inštitúcií:	30
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 875 €

Dosiahnuté výsledky:
V priebehu roku 2016 bola pripravená prvá séria polyhydroxylovaných pyrolidínových derivátov so substitúciou na kruhovom dusíku (fukčné skupiny ktoré sú schopné vytvárať "σ-hole" halogénové väzby a "π-stack" interakcie). Jednalo sa o 7 derivátov, pri ktorých boli následne uskutočnené enzýmové a in vitro testy na nádorových bukových líniach (rakovina kostnej drene). 5 derivátov vykazovalo inhibíciu na mikromolárnej úrovni (5×10^{-5} až 2×10^{-4} M). Pomocou počítačového racionálneho dizajnu s použitím hybridných empirických-kvantovomechanických QSAR modelov vyvinutých v našom laboratóriu bola navrhnutá druhá séria polyhydroxylovaných pyrolidínových derivátov, ktoré mali navrhnutú elektróndeficitnú funkčnú skupinu pripojenú na kruhový dusík pyrolidínového skeletu pomocou rôzne dlhého a flexibilného alifatického alebo aromatického linkera. Pre túto druhú sériu derivátov bola optimalizovaná syntéza a jednotlivé deriváty sú v štádiu prípravy.

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi α-mannosidase II. In Journal of Molecular Graphics and Modelling, 2016, vol. 66, p. 47-57. (1.674 - IF2015). (2016 - Current Contents). ISSN 1093-3263. (ADCA)

Programy: 7RP

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

Zodpovedný riešiteľ:	Stanislav Kozmon
Trvanie projektu:	1.7.2015 / 30.6.2018

Evidenčné číslo projektu:	SASPRO 0005/01/02
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels: 63733 €

12.) Nanoštruktúrové hybridné organicko-anorganické solárne články *(Nanostructured hybrid organic-inorganic solar cells)*

Zodpovedný riešiteľ:	Júlia Mičová
Trvanie projektu:	1.9.2016 / 31.8.2018
Evidenčné číslo projektu:	KONNECT 007
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Česko: 1, Kórejská republika: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 8333 €

Dosiahnuté výsledky:
Zahajujúce stretnutie projektu KONNECT 007 sa uskutočnilo v októbri 2016 na Fyzikálnom ústave AV ČR, v.v.i. v Prahe. Kórejskú stranu zastupoval Prof. Chan Im z Konkuk University. Z Fyzikálneho ústavu AV ČR sa stretnutia zúčastnili členovia riešiteľského tímu pod vedením Dr. Remeša. Chemický ústav SAV zastupovala Dr. Mičová. Úvodné 4 mesiace riešenia projektu boli venované štúdiu a optimalizácii metódy prípravy anorganických častí hybridných solárnych článkov. Pozornosť sa sústredila najmä na oxid zinočnatý pre jeho aplikačne zaujímavé opto-elektrické vlastnosti. Bola optimalizovaná metóda prípravy „metóda hydrotermálneho rastu“, z hľadiska reakčného času, teploty, ako aj koncentrácie reakčných zložiek, tak aby sa dosiahla využiteľne významná plocha anorganickej vrstvy hybridných solárnych článkov. Výsledky boli prezentované na dvoch medzinárodných konferenciách.

MIČOVÁ, Júlia. Preparation of zinc oxide nanorods colloid from thin layers. In 8. ročník mezinárodní konference nanomateriálů - výzkum & aplikace (NANOCON 2016), 19.-21. 10. 2016, Brno, Česká republika. Poster PA25.
MIČOVÁ, Júlia. Production of zinc oxide nanowires powder with precisely defined morphology. In 9th international conference Solid State Surfaces and Interfaces 2016 (SSSI 2016), 21.-24. 11. 2016, Piešťany, Slovensko. Poster No. 21.

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

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

inštitúcií:	Taliansko: 1, Portugalsko: 1
Čerpané financie:	EC Brussels: 89166 € Podpora medzinárodnej spolupráce z národných zdrojov: 1875 €

Dosiahnuté výsledky:
Vyvinuté boli rozličné spôsoby stanovenia proteínu "prostate specific antigen" (PSA), ktorý je využívaný ako biomarker rakoviny prostaty, s využitím DNA aptamérov a lektínov v kombinácii s elektrochemickou detekciou, s využitím protilátok a lektínov v kombinácii s „lateral flow immunoassay“. Využitá bola aj technika Surface Plasmon Resonance (SPR) fluorescenčnej lektínovej microarray na stanovenia afinitných konštánt.

BELICKÝ, Štefan - KATRLÍK, Jaroslav - TKÁČ, Ján. Glycan and lectin biosensors. In Essays in Biochemistry, 2016, vol. 60, p. 37-47. (3.378 - IF2015). (2016 - WOS Core Collection, Scopus). ISSN 0071-1365. (ADMA)

DAMBORSKÝ, Pavel - ŠVITEL, Juraj - KATRLÍK, Jaroslav. Optical biosensors. In Essays in Biochemistry, 2016, vol. 60, p. 91-100. (3.378 - IF2015). (2016 - WOS Core Collection, Scopus). ISSN 0071-1365. (ADMA)

HAMMOND, Jules L. - FORMISANO, Nello - ESTRELA, Pedro - CARRARA, Sandro - TKÁČ, Ján. Electrochemical biosensors and nanobiosensors. In Essays in Biochemistry, 2016, vol. 60, p. 69-80. (3.378 - IF2015). (2016 - WOS Core Collection, Scopus). ISSN 0071-1365. (ADMA)

DAMBORSKÝ, Pavel - KOCZULA, Katarzyna M. - GALLOTTA, Andrea - KATRLÍK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In Analyst, 2016, vol. 141, p. 6444-6448. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654. (ADCA)

DAMBORSKÝ, Pavel - ZÁMOROVÁ, Martina - KATRLÍK, Jaroslav. Determining the binding affinities of prostate-specific antigen to lectins: SPR and microarray approaches. In Proteomics, 2016, vol. 16, p. 3096-3104. (4.079 - IF2015). (2017 - Current Contents). ISSN 1615-9853. (ADCA)

JOLLY, Pawan - DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - SOARES, Ruben R.G. - CHU, Virginia - CONDE, Jo?o P. - KATRLÍK, Jaroslav - ESTRELA, Pedro. DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. In Biosensors and Bioelectronics, 2016, vol. 79, p. 313-319. (7.746 - IF2015). (2016 - Current Contents). ISSN 0956-5663. (ADCA)

14.) Elektrochemické lektínové a glykánové biočipy integrované s nanoštruktúrami
(Electrochemical LEctin and glycan biochips integrated with NAnostructures)

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.1.2013 / 31.12.2017
Evidenčné číslo projektu:	FP7-311532
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels: 245604 € Podpora medzinárodnej spolupráce z národných zdrojov: 21996 €

Dosiahnuté výsledky:
Výsledky z oblasti výskumu využitia lektínových biosenzorov a glykánových biosenzorov s detekciou založenou na elektrochemickej impedančnej spektroskopii dosiahnuté v spolupráci s BVT Technologies a.s. (ČR), Mendelovou Univerzitou v Brne (ČR) a Katarskou Univerzitou boli publikované v štyroch spoločných vedeckých prácach:

HUSHEGYI, András - KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - TKÁČ, Ján. Carbohydrate nanotechnology and its application to biosensor development. In STINE, Keith J. (ed.). Carbohydrate Nanotechnology. Hoboken, NJ, USA: John Wiley & Sons, 2016, chapter 15, p. 387-421. ISBN 978-1-118-86053-3. (ABC)

BERTÓK, Tomáš - DOŠEKOVÁ, Erika - BELICKÝ, Štefan - HOLAZOVÁ, Alena - LORENCOVÁ, Lenka - MISLOVIČOVÁ, Danica - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica - PLIČKA, Robert - KREJČÍ, Jan - ILČÍKOVÁ, Markéta - KASÁK, Peter - TKÁČ, Ján. Mixed zwitterion-based self-assembled monolayer interface for impedimetric glycomic analyses of human IgG samples in an array format. In Langmuir, 2016, vol. 32, p. 7070-7078. (3.993 - IF2015). (2016 - Current Contents). ISSN 0743-7463. (ADCA)

HUSHEGYI, András - PIHÍKOVÁ, Dominika - BERTÓK, Tomáš - ADAM, Vojtech - KIZEK, René - TKÁČ, Ján. Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. In Biosensors and Bioelectronics, 2016, vol. 79, p. 644-649. (7.746 - IF2015). (2016 - Current Contents). ISSN 0956-5663. (ADCA)

KLUKOVÁ, Ľudmila - FILIP, Jaroslav - BELICKÝ, Štefan - VIKARTOVSKÁ, Alica - TKÁČ, Ján. Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. In Analyst, 2016, vol. 141, p. 4278-4282. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654. (ADCA)

Programy: Iné

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

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	NPRP 6-381-1-078
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Qatar University
Počet spoluriešiteľských inštitúcií:	1 - Katar: 1
Čerpané financie:	Qatar National Research Fund (QNRF): 78106 €

Dosiahnuté výsledky:
Pripravené boli sendvičové biosenzory s imobilizovanými protilátkami, ktoré boli schopné selektívne interagovať s biomarkerom rakoviny prostaty – PSA (špecifický prostatický antigén) s následnou inkubáciou biosenzora s lektínami. Viaceré lektíny boli využité v glykoprofilácii PSA, ale len lektíny izolované zo *Sambuccus nigra* boli schopné poskytnúť vysoký signál, zatiaľ čo lektín izolovaný z *Maackia amurensis* poskytoval veľmi nízky signál pri analýze komerčne dostupného

PSA. Výsledky analýzy biosenzorom boli v plnom súlade s výsledkami nameranými technikou MALDI-TOF MS. Následne bol elektrochemický biosenzor aplikovaný v analýze sér od ľudí s rakovinou prostaty so sľubnými výsledkami.

PIHÍKOVÁ, Dominika - BELICKÝ, Štefan - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján. Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. In Analyst, 2016, vol. 141, p. 1044-1051. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654. (ADCA)

PIHÍKOVÁ, Dominika - KASÁK, Peter - KUBÁNIKOVÁ, Petra - SOKOL, Roman - TKÁČ, Ján. Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. In Analytica Chimica Acta, 2016, vol. 934, p. 72-79. (4.712 - IF2015). (2016 - Current Contents). ISSN 0003-2670. (ADCA)

PIHÍKOVÁ, Dominika - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - BELICKÝ, Štefan - BERTÓK, Tomáš - KASÁK, Peter - MUCHA, Ján - TKÁČ, Ján. Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. In Proteomics, 2016, vol. 16, p. 3085-3095. (4.079 - IF2015). (2016 - Current Contents). ISSN 1615-9853. (ADCA)

Projekty národných agentúr

Programy: VEGA

1.) Štúdium stability potenciálnych inhibítorov ľudských glykozyltransferáz *(Investigation of the stability of potential inhibitors of human glycosyltransferases)*

Zodpovedný riešiteľ:	Marek Baráth
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0024/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 21206 €

2.) Vývoj nových imobilizovaných biokatalyzátorov s využitím rekombinantných mikroorganizmov pre biokatalytické kaskádové reakcie *(Development of novel immobilized biocatalysts utilizing recombinant microorganisms for biocatalytic cascade reactions)*

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0090/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV (VEGA): 11716 €

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

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0018/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6892 €

4.) Štúdium protektívneho potenciálu syntetizovaných fenyletanoidných glykozidov v systémoch cicavčích buniek a plazmidovej DNA *(Study of protective potential of synthesized phenylethanoid glycosides in the systems of mammalian cells and plasmid DNA)*

Zodpovedný riešiteľ:	Eva Horváthová
Zodpovedný riešiteľ v organizácii SAV:	Mária Mastihubová
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0084/16
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 1844 €

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

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0100/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV (VEGA): 6203 €

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

Zodpovedný riešiteľ:	Zdenka Hromádková
Trvanie projektu:	1.1.2013 / 31.12.2016

Evidenčné číslo projektu:	2/0085/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 7355 €

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

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0162/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV (VEGA): 21707 €

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

Zodpovedný riešiteľ:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0175/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6896 €

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

Zodpovedný riešiteľ:	Desana Lišková
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0083/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV (VEGA): 8845 €

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

Zodpovedný riešiteľ:	Eva Machová
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0026/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 14886 €

11.) Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán *(Antibacterial and immunomodulatory properties of bee defensin-1 in chronic wound healing process)*

Zodpovedný riešiteľ:	Juraj Majtán
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0007/14
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6896 €

12.) Syntetický potenciál marginálnych glykozidáz *(Synthetic potential of marginal glycosidases)*

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	1.1.2016 / 31.12.2018
Evidenčné číslo projektu:	2/0157/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 7235 €

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

Zodpovedný riešiteľ:	Mária Matulová
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0007/13

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 5514 €

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

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0188/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 11007 €

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

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0136/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 4135 €

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

Zodpovedný riešiteľ:	Monika Poláková
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0064/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 11772 €

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

Zodpovedný riešiteľ:	Vladimír Puchart
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0037/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 9819 €

18.) Multi-škálové modelovanie interakcií atómov prechodných kovov a heterocyklických a cukrom-podobných látok *(Multi-scale modelling of transition metal interactions with heterocyclic and sugar-like compounds)*

Zodpovedný riešiteľ:	Vladimír Sládek
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0035/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	SAV (VEGA): 1378 €

19.) Štruktúra, funkcia a mechanizmus účinku rastlinných a fungálnych transglykozyláz *(Structure, function and mechanism of action of plant and fungal transglycosylases)*

Zodpovedný riešiteľ:	Eva Stratilová
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0058/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6325 €

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

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

Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 8551 €

Programy: APVV

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

Zodpovedný riešiteľ:	Miroslav Barančík
Zodpovedný riešiteľ v organizácii SAV:	Jozef Nahálka
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0348-12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 4800 €

22.) Imobilizované rekombinantné mikroorganizmy pre biotechnologickú produkciu chemických špecialít pomocou biokatalytických kaskádových reakcií *(Immobilized recombinant microorganisms forthe biotechnological production of chemical specialties using biocatalytic cascade reactions)*

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0227
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 11870 €

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

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0305-12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Jesseniova lekárska fakulta UK v Martine
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 11500 €

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

Zodpovedný riešiteľ:	Jozef Huran
Zodpovedný riešiteľ v organizácii SAV:	Vlasta Sasinková
Trvanie projektu:	1.10.2013 / 31.12.2016
Evidenčné číslo projektu:	APVV-0443-12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 4835 €

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

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0753
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 43685 €

26.) Syntetická biológia pre produkciu nových biologicky aktívnych látok u streptomycét *(Synthetic biology for the production of new biologically active compounds in streptomycetes)*

Zodpovedný riešiteľ:	Ján Kormanec
Zodpovedný riešiteľ v organizácii SAV:	Mária Matulová
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0410
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3465 €

27.) Posttranslačné modifikácie v mitochondriách a ich úloha v patologických procesoch *(Post-translation modifications in mitochondria and their role in pathological processes)*

Zodpovedný riešiteľ:	Eva Kutejová
Zodpovedný riešiteľ v organizácii SAV:	Ján Mucha
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0375
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 11500 €

28.) Príprava modelovej subcelulárnej vakcíny z manooligomérnych štruktúr kvasinky *Candida albicans* *(Preparation of model subcellular vaccine from mannooligomer structures of Candida albicans yeast)*

Zodpovedný riešiteľ:	Eva Machová
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0161
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20000 €

29.) Vývoj nových teoretických nástrojov pre predikciu a interpretáciu EPR a NMR parametrov *(Developing new theoretical tools for prediction and interpretation of EPR and NMR parameters)*

Zodpovedný riešiteľ:	Vladimír Malkin
Zodpovedný riešiteľ v organizácii SAV:	Miloš Hricovíni
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0726
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2250 €

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

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0846-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 20460 €

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

Zodpovedný riešiteľ:	Monika Poláková
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0484-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 38579 €

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

Zodpovedný riešiteľ:	Vladimír Puchart
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0602-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 30000 €

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

Zodpovedný riešiteľ:	Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Katrlík
Trvanie projektu:	1.7.2015 / 31.10.2018

Evidenčné číslo projektu:	APVV-14-0334
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 5700 €

34.) Zbierka kultúr kvasiniek ako biobanka pre budúce generácie *(Culture Collection of Yeasts as a biobank for future generations)*

Zodpovedný riešiteľ:	Renáta Vadkertiová
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0744
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 27428 €

Príloha C

Publikačná činnosť organizácie (*generovaná z ARL*)

AAB Vedecké monografie vydané v domácich vydavateľstvách

AAB01 Nové strategické prístupy v experimentálnej kardioprotekcii. Editori: M. Ferko a P. Farkaš. Banská Bystrica: Preveda, 2016. 92 s., ISBN 978-80-970712-9-5.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 FILIP, Jaroslav - BERTÓK, Tomáš - TKÁČ, Ján. Electrochemical biosensors and biofuel cells based on graphene and graphene derivatives. In ALIOFKHAZAREI, Mahmood - ALI, Nasar - MILNE, William I. - OZKAN, Cengiz S. - MITURA, Stanislaw - GERVASONI, Juana L. (eds.). Graphene Science Handbook: Mechanical and Chemical Properties. - Boca Raton, FL, USA: CRC Press, 2016, vol. 4, chapter 11, p. 179-206. ISBN 978-1456591233.

ABC02 HUSHEGYI, András - KLUKOVÁ, Ľudmila - BERTÓK, Tomáš - TKÁČ, Ján. Carbohydrate nanotechnology and its application to biosensor development. In STINE, Keith J. (ed.). Carbohydrate Nanotechnology. - Hoboken, NJ, USA: John Wiley and Sons, 2016, chapter 15, p. 387-421. ISBN 978-1-118-86053-3.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ACCOGLI, Gianluca - DESANTIS, Salvatore - MARTINO, Nicola Antonio - DELL´AQUILA, Maria Elena - GEMEINER, Peter - KATRLÍK, Jaroslav. A lectin-based cell microarray approach to analyze the mammalian granulosa cell surface glycosylation profile. In Glycoconjugate Journal, 2016, vol. 33, p. 717-724. (1.828 - IF2015). (2016 - Current Contents). ISSN 0282-0080.

ADCA02 ADESIOYE, Fiyinfoluwa A. - MAKHALANYANE, Thulani P. - BIELY, Peter - COWAN, Don A. Phylogeny, classification and metagenomic bioprospecting of microbial acety xylan esterases. In Enzyme and Microbial Technology, 2016, vol. 93-94, p. 79-91. (2.624 - IF2015). (2016 - Current Contents). ISSN 0141-0229.

ADCA03 ARROYO, Javier - FARKAŠ, Vladimír - SANZ, Ana B - CABIB, Enrico. 'Strengthening the fungal cell wall through chitin–glucan cross-links: effects on morphogenesis and cell integrity'. In Cellular Microbiology, 2016, vol. 18, p. 1239-1250. (4.460 - IF2015). (2016 - Current Contents). ISSN 1462-5814.

ADCA04 BEKEOVÁ, Carmen - REHÁKOVÁ, Alena - FECKOVÁ, Ľubomíra - VLČKOVÁ, Silvia - NOVÁKOVÁ, Renáta - MINGYAR, Erik - KORMANEC, Ján. Characterisation of the genes involved in the biosynthesis and attachment of the aminodeoxysuga. In Applied Microbiology and Biotechnology, 2016, vol. 100, p 3177-3195. (3.376 - IF2015). (2016 - Current Contents). ISSN 0175-7598.

ADCA05 BERTÓK, Tomáš - DOŠEKOVÁ, Erika - BELICKÝ, Štefan - HOLAZOVÁ, Alena, Šedivá - LORENCOVÁ, Lenka - MISLOVIČOVÁ, Danica - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica, Welwardová - PLIČKA, Robert - KREJČÍ, Jan - ILČÍKOVÁ, Markéta - KASÁK, Peter - TKÁČ, Ján. Mixed zwitterion-based self-assembled monolayer interface for impedimetric glycomic analyses of human IgG samples in an array format. In Langmuir, 2016, vol. 32, p. 7070-7078. (3.993 - IF2015). (2016 - Current Contents). ISSN 0743-7463.

ADCA06 BIELY, Peter. Microbial glucuronoyl esterases: 10 years after discovery. In Applied and Environmental Microbiology, 2016, vol. 32, p. 7014-7018. (3.823 - IF2015). (2016 - Current Contents). ISSN 0099-2240.

ADCA07 BIELY, Peter - SINGH, Suren - PUCHART, Vladimír. Towards enzymatic breakdown of complex plant xylan structures: State of the art. In Biotechnology Advances, 2016, vol. 34, p. 1260-1274. (9.848 - IF2015). (2016 - Current Contents). ISSN 0734-9750.

ADCA08 BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. Using DFT methodology for more reliable predictive models: Design of inhibitors of Golgi α-mannosidase II. In Journal of molecular Graphics and Modelling, 2016, vol. 66, p. 47-57. (1.674 - IF2015). (2016 - Current Contents). ISSN 1093-3263.

ADCA09 BUČKO, Marek - GEMEINER, Peter - SCHENKMAYEROVÁ, Andrea - KRAJČOVIČ, Tomáš - RUDROFF, Florian - MIHOVILOVIČ, Marko. Baeyer-Villiger oxidations: biotechnological approach. In Applied Microbiology and Biotechnology, 2016, vol. 100, p. 6585-6599. (3.376 - IF2015). (2016 - Current Contents). ISSN 0175-7598.

ADCA10 CYBULSKA, Justyna - HALAJ, Michal - CEPÁK, Vladimír - LUKAVSKÝ, Jaroslav - CAPEK, Peter. Nanostructure features of microalgae biopolymer. In Starch-Starke, 2016, vol. 68, p. 629-636. (1.523 - IF2015). (2016 - Current Contents). ISSN 0038-9056.

ADCA11 ČÍŽOVÁ, Alžbeta - NEŠČÁKOVÁ, Zuzana - MALOVÍKOVÁ, Anna - BYSTRICKÝ, Slavomír. Preparation and characterization of cationic and amphoteric mannans from Candida albicans. In Carbohydrate Polymers, 2016, vol. 149, p. 1-7. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.

ADCA12 DAMBORSKÁ, Dominika - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - BELICKÝ, Štefan - BERTÓK, Tomáš - KASÁK, Peter - MUCHA, Ján - TKÁČ, Ján. Sweet characterisation of prostate specific antigen using electrochemical lectin-based immunosensor assay and MALDI TOF/TOF analysis: Focus on sialic acid. In Proteomics, 2016, vol. 16, p. 3085-3095. (4.079 - IF2015). (2016 - Current Contents). ISSN 1615-9853.

ADCA13 DAMBORSKÁ, Dominika - KASÁK, Peter - KUBÁNIKOVÁ, Petra - SOKOL, Roman - TKÁČ, Ján. Aberrant sialylation of a prostate-specific antigen: Electrochemical label-free glycoprofiling in prostate cancer serum samples. In Analytica Chimica Acta, 2016, vol. 934, p. 72-79. (4.712 - IF2015). (2016 - Current Contents). ISSN 0003-2670.

ADCA14 DAMBORSKÁ, Dominika - BELICKÝ, Štefan - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján. Sensitive detection and glycoprofiling of a prostate specific antigen using impedimetric assays. In Analyst, 2016, vol. 141, p. 1044-1051. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654.

ADCA15 DAMBORSKÝ, Pavel - ZÁMOROVÁ, Martina - KATRLÍK, Jaroslav. Determining the binding affinities of prostate-specific antigen to lectins: SPR and microarray approaches. In Proteomics, 2016, vol. 16, p. 3096-3104. (4.079 - IF2015). (2016 - Current Contents). ISSN 1615-9853.

ADCA16 DAMBORSKÝ, Pavel - KOCZULA, Katarzyna M. - GALLOTA, Andrea - KATRLÍK, Jaroslav. Lectin-based lateral flow assay: proof-of-concept. In Analyst, 2016, vol. 141, p. 6444-6448. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654.

ADCA17 DUPUY, Joan - LEGLIZE, Pierre - VINCENT, Quentin - ZELKO, Ivan - MUSTIN, Christian - OUVRARD, Stephanie - STERCKEMAN, Thibault. Effect and localization of phenanthrene in maize roots. In Chemosphere, 2016, vol. 149, p. 130-136. (3.698 - IF2015). (2016 - Current Contents). ISSN 0045-6535.

ADCA18 FARKAŠ, Pavol - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Peter - PAULOVIČOVÁ, Lucia - PAULOVIČOVÁ, Ema - BYSTRICKÝ, Slavomír. One-pot preparation of labelled mannan–peptide conjugate, model for immune cell processing. In Glycoconjugate Journal, 2016, vol. 33, p. 113-120. (1.828 - IF2015). (2016 - Current

Contents). ISSN 0282-0080.

ADCA19 FRAŇOVÁ, Lucia - PUCHART, Vladimír - BIELY, Peter. β-Glucuronidase-coupled assays of glucuronoyl esterases. In Analytical Biochemistry, 2016, vol. 510, p. 114-119. (2.243 - IF2015). (2016 - Current Contents). ISSN 0003-2697.

ADCA20 GARAJOVÁ, Soňa - MATHIEU, Yann - BECCIA, Maria Rosa - BENNATI-GRANIER, Chloé - BIASO, Frédéric - FANUEL, Mathieu - ROPARTZ, David - GUIGLIARELLI, Bruno - RECORD, Eric - ROGNIAUX, Héléne - HENRISSAT, Bernard - BERRIN, Jean-Guy. Single-domain flavoenzymes trigger lytic polysaccharide monooxygenases for oxidative degradation of cellulose. In Scientific Reports, 2016, vol. 6, art. no. 28276 (9 pages). (5.228 - IF2015). (2016 - Current Contents). ISSN 2045-2322.

ADCA21 GUO, Boyang - SATO, Nobuaki - BIELY, Peter - AMANO, Yoshihiko - NOZAKI, Kouichi. Comparison of catalytic properties of multiple beta-glucosidases of Trichoderma reesei. In Applied Microbiology and Biotechnology, 2016, vol. 100, p. 4959-4968. (3.376 - IF2015). (2016 - Current Contents). ISSN 0175-7598.

ADCA22 HOLAZOVÁ, Alena, Šedivá - KATRLÍK, Jaroslav. Sledování glykosylace lektinovými biočipy a biosenzory využívající povrchovou plasmonovou rezonanci. In Chemické Listy, 2016, vol. 110, p. 842-850. (0.279 - IF2015). (2016 - Current Contents). ISSN 0009-2770.

ADCA23 HRICOVÍNIOVÁ, Zuzana - HRICOVÍNI, Michal - BREZOVÁ, Vlasta - MAGDOLEN, Peter. New series of N-aryl- and N-heteroaryl-D-glucuronamides as potential anticancer agents: synthesis and spectroscopic analysis. In Tetrahedron: Asymmetry, 2016, vol. 27, p. 361-368. (2.108 - IF2015). (2016 - Current Contents). ISSN 0957-4166.

ADCA24 HRICOVÍNIOVÁ, Zuzana. Surfactants of biological origin: The role of Mo(VI) and microwaves in the synthesis of xylan-based non-ionic surfactants. In Carbohydrate Polymers, 2016, vol. 144, p. 297-304. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.

ADCA25 HRIVNÁKOVÁ, Viera - FARGAŠOVÁ, Agáta. Charakterizácia nanočastíc a ich vplyv na eukaryotické bunky a vyššie rastliny (Characterization of nanoparticles and their effects on eukaryotic cells and higher plants). In Chemické Listy, 2016, vol. 110, p. 440-446. (0.279 - IF2015). (2016 - Current Contents). ISSN 0009-2770.

ADCA26 HRONSKÁ, Helena - MASTIHUBA, Vladimír - TOKOŠOVÁ, Silvia - ROSENBERG, Michal. Semicontinual synthesis of alkyl galactosides using β-galactosidase entrapped in polyvinylalcohol hydrogel. In Biocatalysis and Biotransformation, 2016, vol. 34, p. 219-225. (0.892 - IF2015). ISSN 1024-2422.

ADCA27 HUSHEGYI, András - DAMBORSKÁ, Dominika - BERTÓK, Tomáš - ADAM, Vojtech - KIZEK, René - TKÁČ, Ján. Ultrasensitive detection of influenza viruses with a glycan-based impedimetric biosensor. In Biosensors and Bioelectronic, 2016, vol. 79, p. 644-649. (7.476 - IF2015). (2016 - Current Contents). ISSN 0956-5663.

ADCA28 CHOI, Ji Won - SYNYTSYA, Andriy - CAPEK, Peter - BLEHA, Roman - POHL, Radek - PARK, Yong Il. Structural analysis and anti-obesity effect of a pectic polysaccharide isolated from Korean mulberry fruit Oddi (Morus alba L.). In Carbohydrate Polymers, 2016, vol. 146, p. 187-196. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.

ADCA29 CHYBA, Andrej - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Effective enzymatic caffeoylation of natural glucopyranosides. In Bioorganic & Medicinal Chemistry Letters, 2016, vol. 26, p. 1567-1570. (2.486 - IF2015). (2016 - Current Contents). ISSN 0960-894X.

ADCA30 CHYBA, Andrej - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Regioselective galloylation of methyl β-D-glucopyranoside by a lipase. In Monatshefte für Chemie, 2016, vol. 147, p. 1137-1142. (1.131 - IF2015). (2016 -

Current Contents). ISSN 0026-9247.

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GII19 TUTKOVÁ, Jana - TKÁČ, Ján. Choroby v tele hľadáme vďaka biočipom a cukru v bunkách. In Hospodárske noviny, Sekcia HNStyle: Veda, 08.06.2016. http://style.hnonline.sk/veda/676217-choroby-v%20tele-hladame-vdaka.

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Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

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

doc. Ing. Ladislav Petruš, DrSc.
Názov semestr. predmetu: Chémia prírodných látok (5. roč. Mgr. štúdia)
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Semestrálne cvičenia:

Mgr. Elena Karnišová Potocká
Názov semestr. predmetu: Bakalársky projekt I (3. roč. Bc. štúdia)
Počet hodín za semester: 36
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

Mgr. Elena Karnišová Potocká
Názov semestr. predmetu: Laboratórne cvičenie z enzymológie a enzýmového inžinierstva (1. roč. Ing. štúdia)
Počet hodín za semester: 30
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Peter Kis
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie II (2. roč. Bc. štúdia)
Počet hodín za semester: 65
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie

Mgr. Tomáš Klunda
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie (1. roč. Bc. štúdia)
Počet hodín za semester: 52
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

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

Mgr. Maroš Laho
Názov semestr. predmetu: Základné cvičenia z mikrobiológie (1. roč. Bc. štúdia, učiteľský smer Biológia a chémia)
Počet hodín za semester: 36
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Semestrálny projekt I (1. roč. Ing. štúdia)
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Mária Mastihubová, PhD.
Názov semestr. predmetu: Laboratórium organickej syntézy I (1. roč. Ing. štúdia)
Počet hodín za semester: 104
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie

Ing. Mária Mastihubová, PhD.
Názov semestr. predmetu: Semestrálny projekt I (1. roč. Ing. štúdia)
Počet hodín za semester: 104
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Oddelenie organickej chémie

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

Semináre:

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

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

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Diplomová práca 2 (1. roč. Mgr. štúdia v odbore Biológia)
Počet hodín za semester: 48
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Diplomová práca 3 (2. roč. Mgr. štúdia v odbore Biológia)
Počet hodín za semester: 48
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci 1 (3. roč. Bc. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

RNDr. Desana Lišková, PhD.
Názov semestr. predmetu: Bakalárska práca z fyziológie rastlín (3. roč. Bc. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

RNDr. Desana Lišková, PhD.
Názov semestr. predmetu: Diplomová práca 1 (1. roč. Mgr. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

RNDr. Desana Lišková, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci 2 (3. roč. Bc. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Ing. Eva Stratilová, PhD.
Názov semestr. predmetu: Semestrálna práca (I. roč. Ing. štúdia)
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemická, Vysoké učení technické v Brně, VUT Brno, Česko, Ústav chemie potravin a biotechnologií

Ing. Eva Stratilová, PhD.
Názov semestr. predmetu: Semestrálna práca (I. roč. Ing. štúdia)
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Eva Stratilová, PhD.
Názov semestr. predmetu: Semestrálna práca a diplomová prax (I. roč. Ing. štúdia)
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemická, Vysoké učení technické v Brně, VUT Brno, Česko, Ústav chemie potravin a biotechnologií

Mgr. Zuzana Vatehová, PhD.
Názov semestr. predmetu: Bakalárska práca z fyziológie rastlín (3. roč. Bc. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Zuzana Vatehová, PhD.
Názov semestr. predmetu: Diplomová práca 1 (1. roč. Mgr. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Zuzana Vatehová, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci 2 (3. roč. Bc. štúdia v odbore Biológia)
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Terénne cvičenia:

– – –

Individuálne prednášky:

Mgr. Stanislav Kozmon, PhD.
Názov semestr. predmetu: Štúdium reakčných mechanizmov a vlastností molekúl použitím metód výpočtovej chémie - 2. roč. Bc. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Aplikácia biokatalýzy v chémii sacharidov (v rámci predmetu Nové trendy v organickej chémii - 2. roč. Bc. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Biokatalýza v organickej syntéze (v rámci predmetu Enzymológia a enzýmové inžinierstvo - 1. roč. Ing. štúdia)
Počet hodín za semester: 2
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Ema Paulovičová, CSc.
Názov semestr. predmetu: Antifungálna imunita I (štúdijný program Medicínska technológia - 5. roč. Ing. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Lucia Paulovičová, PhD.
Názov semestr. predmetu: Antifungálna imunita II (študijný program Medicínska technológia - 5. roč. Ing. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Ján Tkáč, DrSc.
Názov semestr. predmetu: Enzymológia a enzýmové inžnierstvo (študijný program Biotechnológia - 1. ročník Ing. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Ján Tkáč, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z biochémie a molekulárnej biológie (študijný program Biochémia - 2. ročník Mgr. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

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

Príloha E

Medzinárodná mobilita organizácie

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

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Belgicko					Jaroslav Katrlík	12
Česko			Štefan Belický	10	Tomáš Bertók	4
			Tomáš Bertók	10	Marek Bučko	4
			Peter Capek	6	Erika Došeková	2
			Stanislav Kozmon	30	Peter Gemeiner	4
					Alena Holazová	3
					Jaroslav Katrlík	2
					Júlia Mičová	366
					Monika Poláková	1
					Vlasta Sasinková	6
					Mária Šedivá	1
					Ján Tkáč	2
					Igor Tvaroška	25
					Jana Ziburová	1
Francúzsko	Mária Matulová	8			Soňa Garajová	366
	Iveta Uhliariková	8			Igor Tvaroška	4
Japonsko			Stanislav Kozmon	11	Vladimír Sládek	366
JAR					Andrea Schenkmayerová	366
Katar					Jaroslav Filip	366
Nemecko					Pavel Damborský	8
					Mária Matulová	3
					Iveta Uhliariková	3
					Renáta Vadkertiová	2
Poľsko					Peter Capek	5
Rakúsko					Marek Bučko	1
					Peter Capek	1
					Sergej Šesták	1
Srbsko	Jaroslav Katrlík	8				
	Martina Zámorová	8				
Švédsko					Peter Biely	3
Taliansko			Peter Capek	4	Ján Tkáč	2
			Mária Matulová	4		
Počet vyslaní spolu	**4**	**32**	**7**	**75**	**29**	**1930**

(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
Česko			Bc. Alena Jurnečková	60		
			Mgr. Dana Vránová, PhD.	5		
Francúzsko	Dr. Mounir Traikia	5			Dr. Sérge Pérez	1
Japonsko					Kanade Shimizu (MSc student)	10
					prof. Hiroaki Tokiwa	10
					Ruriko Matsuda (MSc student)	10
					Yuki Ishikawa (MSc student)	16
					Yuta Yamamoto (MSc student)	16
JAR					Nanthakumar Arumugam (MSc student)	30
Nemecko					Xiaoling Lu	33
Srbsko	Dr. Miloš Šunderić	7				
	Dr. Olgica Nedić	7				
	Mgr. Nikola Gligorijević	7				
Švédsko					Iwona Klonowska (PhD student)	3
Taliansko			Dr. Daniele Ciceri	1		
			Dr. Gabriela Fontana	2		
			Dr. Ruggero Beretta	2		
Počet prijatí spolu	**4**	**26**	**5**	**70**	**9**	**130**

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Belgicko	IBCarb	Jaroslav Katrlík	3
Česko	12.ICPG	Michal Halaj	3
		Ján Hirsch	5
		Zdenka Hromádková	4
	17.ŠHS	Peter Baráth	6
		Viera Hrivnáková	6
		Vladimír Pätoprstý	7
		Silvia Vlčková	6
	68.SCHS	Štefan Belický	2
		Ján Hirsch	6
		Miloš Hricovíni	4
		Zuzana Hricovíniová	4
		Elena Karnišová Potocká	4
		Ján Tkáč	2
		Jozef Turjan	5

	CTB 2016	Miloš Hricovíni	3
	ICCBM 16	Tomáš Bertók	1
	MEM 2016	Dominika Damborská	2
		András Hushegyi	2
	NANOCON 2016	Dominika Damborská	3
	SSC 2016	Vlasta Sasinková	6
	TD 2016	Marta Balaščáková	2
		Hana Dudášová	2
	XXV BS	Marek Baráth	5
		Tomáš Bertók	1
		Lucia Fraňová	4
		Stanislav Kozmon	6
		Ján Tkáč	1
Francúzsko	23.YRFM	Lucia Fraňová	3
Holandsko	BPE 2016	Elena Karnišová Potocká	5
Chorvátsko	CCM 2016	Zuzana Neščáková	5
Japonsko	ICY2016	Peter Biely	15
Kanada	GlycoT 2016	Stanislav Kozmon	9
		Igor Tvaroška	8
Kórejská republika	KSG 2016	Peter Capek	10
Lotyšsko	EBC 2016	Jaroslav Katrlík	8
Maďarsko	DocW 2016	Michal Halaj	3
	MESIA 2016	Zuzana Neščáková	3
Nemecko	MMM 2016	Pavel Damborský	4
		Jaroslav Katrlík	4
		Martina Zámorová	4
	Prosense SS	Štefan Belický	8
		Pavel Damborský	8
		Jaroslav Katrlík	4
Rakúsko	MassSpec 2016	Eva Stratilová	2
		Kristína Vadinová	1
		Silvia Vlčková	2
Rusko	4.ISPSB	Zuzana Vatehová	7
Španielsko	COST CM1407	Mária Mastihubová	4
Švajčiarsko	PWS 2016	Štefan Belický	7
		Pavel Damborský	7
		Jaroslav Katrlík	6
		Ján Tkáč	7
Švédsko	Biosensors 2016	Štefan Belický	7
		Dominika Damborská	7
		Pavel Damborský	7
		András Hushegyi	7
		Ľudmila Kluková	7
		Ján Tkáč	7
		Martina Zámorová	6
USA	2.GWC	Ján Tkáč	16
	38.SBFC	Peter Biely	6
	Sialoglyco 2016	Jaroslav Katrlík	11
Veľká Británia	8.MQSS	Peter Baráth	6

	Prosense CPCD	Jaroslav Katrlík	4
		Ján Tkáč	7
Spolu	**32**	**66**	**347**

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

Skratky použité v tabuľke (C):

12.ICPG - 12h International Conference on Polysaccharides-Glycoscience
17.ŠHS - 17. Škola hmotnostní spektrometrie
2.GWC - 2nd Glycobiology World Congress
23.YRFM - 23rd Young Research Fellows Meeting
38.SBFC - 38th Symposium on Biotechnology for Fuels and Chemicals
4.ISPSB - Fourth International Symposium on Plant Signaling and Behavior
68.SCHS - 68. Sjezd chemických společností
8.MQSS - 8th MaxQuant Summer School: Computational Mass Spectrometry-Based Proteomics
Biosensors 2016 - Biosensors 2016: 26th Anniversary World Congress on Biosensors
BPE 2016 - Advanced Course "Biocatalysis and Protein Engineering"
CCM 2016 - Croatian Congress of Microbiology
COST CM1407 - 2nd Meeting of COST Action CM1407: Challenging Organic Synthesis Inspired by Nature – from Natural Products Chemistry to Drug Discovery
CTB 2016 - 8th Central European Conference "Chemistry towards Biology"
DocW 2016 - Doctoral Workshop 2016
EBC 2016 - European Biotechnology Congress 2016
GlycoT 2016 - GlycoT 2016: The 10th International Symposium on Glycosyltransferases
IBCarb - Meeting IBCarb Network: Metrology of Carbohydrates
ICCBM 16 - 16th International Conference on the Crystallisation of Biological Macromolecules
ICY2016 - 14th International Congress on Yeasts
KSG 2016 - 2016 Annual Summer Meeting of Korean Society for Glycoscience
MassSpec 2016 - 27th MassSpec Forum
MEM 2016 - Seminár Moderní elektroanalytické metody 2016
MESIA 2016 - 3rd Meeting of Middle-European Societies for Immunology and Allergology
MMM 2016 - Diagnosis within Micro-fluidics & Multiplexing Micro-arrays (MMM)
NANOCON 2016 - 8th International Conference on Nanomaterials - Research & Application
Prosense CPCD - Prosense Conference on Prostate Cancer Diagnosis: Cancer Diagnosis: Parallel Sensing of Prostate Cancer Biomarkers
Prosense SS - Prosense Spring School: Label-free techniques for electronic sensing of biomolecules
PWS 2016 - Prosense SB Meeting and Winter School - New nano-bio-sensing tools for theragnostics
PWS 2016 - Prosense Winter School - New nano-bio-sensing tools for theragnostics
Sialoglyco 2016 - Sialoglyco 2016
SSC 2016 - Solid State Chemistry 2016
TD 2016 - XXV. Tomáškovy dny mladých mikrobiologů
XXV BS - XXV. Biochemický sjezd

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