Chemický ústav SAV

Správa o činnosti organizácie SAV za rok 2020

Bratislava
január 2021

Obsah

1.	Základné údaje o organizácii	1
2.	Vedecká činnosť	3
3.	Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku	14
4.	Medzinárodná vedecká spolupráca	19
5.	Koncepcia dlhodobého rozvoja organizácie	24
6.	Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky	26
7.	Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi	37
8.	Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie	38
9.	Vedecko-organizačné a popularizačné aktivity	40
10.	Činnosť knižnično-informačného pracoviska	45
11.	Aktivity v orgánoch SAV	46
12.	Hospodárenie organizácie	48
13.	Nadácie a fondy pri organizácii SAV	49
14.	Iné významné činnosti organizácie SAV	49
15.	Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV	50
16.	Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám	52
17.	Problémy a podnety pre činnosť SAV	53

PRÍLOHY

A	*Zoznam zamestnancov a doktorandov organizácie k 31.12.2020*	56
B	*Projekty riešené v organizácii*	63
C	*Publikačná činnosť organizácie*	91
D	*Údaje o pedagogickej činnosti organizácie*	111
E	*Medzinárodná mobilita organizácie*	114
F	*Vedecko-popularizačná činnosť pracovníkov organizácie SAV*	115
	Ohlasy (citácie)	118

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV
Riaditeľ: Ing. Miroslav Kóš, DrSc.
Zástupca riaditeľa: Mgr. Stanislav Kozmon, PhD.
Vedecký tajomník: Mgr. Jana Blahutová, PhD.
Predseda vedeckej rady: Ing. Vladimír Mastihuba, PhD.
Člen Snemu SAV: Ing. Miroslav Kóš, DrSc.
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Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:
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	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	150	67	83	17	23	141	118.87	74.9	19
Vedeckí pracovníci	85	45	40	9	13	76	64.94	62.86	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	24	9	15	6	10	24	14.87	10.98	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	6	2	4	1	0	6	4.8	1.06	0
Odborní pracovníci ÚS	23	4	19	1	0	23	24.77	0	19
Ostatní pracovníci	12	7	5	0	0	12	9.49	0	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 31.12.2020 (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 31.12.2020 (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
O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.; M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2020)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	10	35	2	2	10	24	11
Ženy	1	39	0	0	1	20	19

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

Veková štruktúra (roky)	**< 31**		**31-35**		**36-40**		**41-45**		**46-50**		**51-55**		**56-60**		**61-65**		**> 65**	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Muži	7	4.9	8	8.5	2	1.5	4	4.0	5	5.5	3	3.5	2	2.5	4	4.0	12	4.5
Ženy	9	3.0	11	12.5	8	8.5	1	1.0	5	5.0	2	2.0	3	3.0	5	5.5	2	1.2

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2020

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	50.9	51.6	49.6
Ženy	44.8	42.2	42.0
Spolu	47.5	47.2	45.9

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

V roku 2020 nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii Chemického ústavu SAV, ktorá bola naďalej zameraná najmä na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

V rámci organizačného členenia organizácie (od 1. 1. 2005), je vytvorených osem vedeckých oddelení - Štruktúra a funkcia sacharidov, Glykobiológia, Glykomateriály, Glykochémia, Glykobiotechnológia, Enzymológia sacharidov, Imunochémia glykokonjugátov a Zbierka kvasiniek

(tieto vedecké oddelenia spolu tvoria Centrum glykomiky) a tri spoločné nevedecké oddelenia - Analytické, Realizačné a Ekonomicko-technické oddelenie.

Chemický ústav SAV bol v rámci pravidelných hodnotení vedeckých organizácií SAV (akreditácie) v roku 2007, 2012 a 2016 zaradený do kategórií A* (rok 2007), A (rok 2012) a B (rok 2016), čo svedčí o vysokej kvalite vedecko-výskumnej práce a ostatných zohľadňovaných ukazovateľoch.

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2020

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	18	7	197021	195521	-	-	3000	-
2. Projekty APVV	6	15	-	-	230314	182252	-	110465
3. Projekty OP ŠF	1	4	-	-	140538	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	6	0	-	-	430434	408254	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2020

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV v r. 2020	-	5	6
2. Projekty výziev OP ŠF podané r. 2020	Bratislava	1	0
	Regióny	0	2

Projekty výziev OP ŠF podané v r. 2020

Názov projektu: Štúdium štruktúrnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení
Anglický názov: Study of structural changes of complex glycoconjugates in the process of hereditary metabolic and civilization diseases

Akronym: GlykoPatogeneza
Kód projektu v ITMS2014+: 313020Y920
Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK v Bratislavskom kraji
Kód výzvy: OPVaI-VA/DP/2018/2.1.1-05
Kód žiadosti o poskytnutie NFP: NFP313020Y920
Odborný garant za CHÚ SAV: RNDr. Ján Mucha, CSc.
Žiadateľ: Chemický ústav SAV
Partneri: Sitno Pharma s. r. o.; Centrum experimentálnej medicíny SAV - Ústav experimentálnej farmakológie a toxikológie
Trvanie projektu: 01/2020-06/2023
Požadované financie: 720 992,57 € (EC Brussels) (na celý projekt na celú dobu)
Požadované financie: 547 698,59 € (EC Brussels) (pre CHÚ SAV na celú dobu)

Názov projektu: Vývoj nanoštrukturovaných povlakov s inaktivačným účinkom na vírusy a baktérie pre rôzne typy flexibilných materiálov
Anglický názov: Development of nanostructured coatings with inacticating effect on viruses and bacteria for various types of flexible materials
Akronym: nemá
Kód projektu v ITMS2014+: NFP313010AUH4
Výzva: Výzva na podporu mobilizácie a využitia potenciálu výskumných inštitúcií pri boji proti pandémii vyvolanej ochorením COVID-19 a znižovaní negatívnych následkov pandémie (regióny)
Kód výzvy: OPVII-VA/DP/2020/9.4-01
Odborný garant: Ing. Ivan Morgoš
Odborný garant za CHÚ SAV: RNDr. Ján Mucha, CSc.
Žiadateľ: STATON s.r.o.
Partneri: Chemický ústav SAV; Univerzita Komenského v Bratislave
Trvanie projektu: 01/2021-06/2023
Požadované financie: 2 104 557,74 € (EC Brussels) (na celý projekt na celú dobu)
Požadované financie: 332 029,32 € (EC Brussels) (pre CHÚ SAV na celú dobu)

Názov projektu: Vývoj produktov modifikáciou prírodných látok a štúdium ich multimodálnych účinkov na ochorenie COVID-19
Anglický názov: Development of products by modification of natural substances and study of their multimodal effects on COVID-19
Akronym: COVID
Kód projektu v ITMS2014+: 313010ATT2
Výzva: Výzva na predkladanie žiadostí o poskytnutie nenávratného finančného príspevku na podporu mobilizácie a využitia potenciálu výskumných inštitúcií pri boji proti pandémii vyvolanej ochorením COVID-19 a znižovaní negatívnych následkov pandémie (regióny)
Kód výzvy: OPII-VA/DP/2020/9.4-01
Kód žiadosti o poskytnutie NFP: NFP313010ATT2
Žiadateľ: Sitno Pharma s. r. o.
Zodpovedný riešiteľ: Ing. Vladimír Žvak, CSc.
Zodpovedný riešiteľ za CHÚ SAV: Ing. Vladimír Pätoprstý, PhD.
Partneri: Chemický ústav SAV; Centrum experimentálnej medicíny SAV; Národné poľnohospodárske a potravinárske centrum
Trvanie projektu: 07/2020-06/2023
Požadované financie: 1 290 687,49 € (EC Brussels) (na celý projekt na celú dobu)
Požadované financie: 1 021 948,87 € (EC Brussels) (pre CHÚ SAV na celú dobu)

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2020

Tabuľka 2c Medzinárodné projekty riešené v roku 2020

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi-záciu	Spolu	Pre organi-záciu		
1. Projekty 7. RP EÚ a Horizont 2020	1	2	18576	-	151599			
2. Projekty ERA.NET, ESA, JRP	1	1	43750	-				
3. Projekty COST	0	10	42140	-				
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-				
5. Projekty v rámci medzivládnych dohôd	2	0	-	-				
6. Bilaterálne projekty MAD	0	0	-	-				
7. Bilaterálne projekty ostatné	0	1	-	-				
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	1	1						
9. Iné projekty	0	0	-	-	34013	-	-	-

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

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2020

Tabuľka 2d Počet projektov Horizont 2020 v roku 2020

	A	B
Počet podaných projektov Horizont 2020	0	0

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

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 cca 19 mil. €; financie boli použité na nákup prístrojovej infraštruktúry), CHÚ SAV sa zapojil do

ďalších výziev v druhej etape pre financovanie výskumných aktivít podľa prílohy v úspešných projektoch (financovanie nákupu spotrebného materiálu, energií a ľudských zdrojov) vyhlásených koncom roka 2018. V roku 2018 ústav podal žiadosť do výzvy v rámci bratislavského kraja, v rámci ktorej je ústav kvalifikovaný ako oprávnený žiadateľ. Tento projekt je však stále iba v štádiu posudzovania. Ako žiadateľ sa ústav ešte zapojil do výzvy na podporu výskumno-vývojových kapacít/refundácia. V tomto prípade už došlo k podpísaniu Zmluvy o poskytnutí NFP (30.12.2019) a odpovedajúce ŽoP boli podané v roku 2020 a doteraz boli preplatené tri ŽOP v sume 1011619 €. Zatiaľ neboli preplatené dve ŽOP v sume cca 560 tisíc €. V ďalších troch projektoch v rámci výziev vyhlásených v roku 2018 ústav figuruje ako partner (2 projekty vo výzve na podporu mobilizácie excelentných výskumných tímov v oblastiach špecializácie RIS3 SK a 1 projekt vo výzve na podporu DSV). U dvoch projektov z týchto výziev došlo v roku 2020 k podaniu ŽOP, z ktorých 1 už bola preplatená (61107 €). V roku 2020 sa ústav zapojil do ďalších výziev OPVaI a 2 projekty (výzva na podporu mobilizácie a využitia potenciálu výskumných inštitúcií pri boji proti pandémii vyvolanej ochorením COVID-19) sú v štádiu hodnotenia.

CHÚ SAV má záujem zapojiť sa aj do ďalších výziev, pričom prioritou je získať finančnú podporu najmä na spotrebný materiál, energie, ľudské zdroje a dobudovanie infraštruktúry. Z prostriedkov projektu na podporu výskumno-vývojových kapacít (NFP: 008/2019/OPII/VA) je ambíciou prijať niekoľko doktorandov nad limit stanovený pre ústav z centrálnych zdrojov a taktiež zamestnať úspešných a kvalitných postdoktorandov. Časť získaných finančných prostriedkov bude využitá aj na dotovanie Ceny Dr. Štefana Bauera za najlepšiu vedeckú publikáciu doktoranda a mladého vedeckého pracovníka do 35 rokov, ktorú ústav zriadil s účinnosťou od r. 2021.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

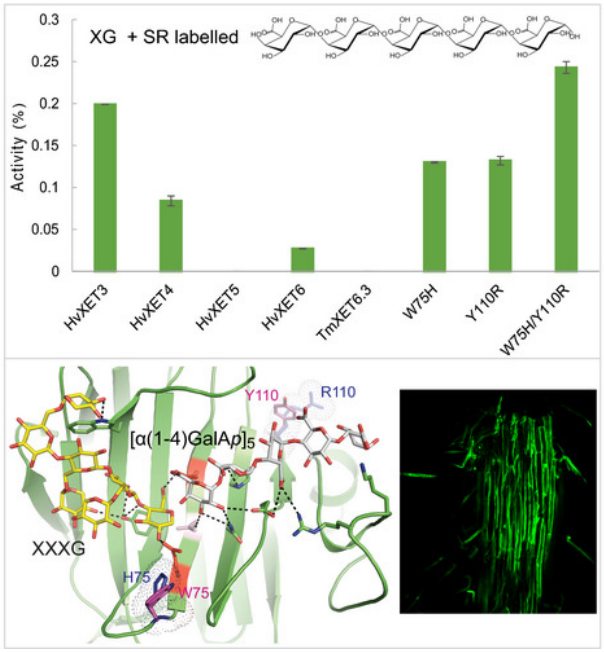
Identifikácia nového typu väzieb medzi štrukturálnymi polysacharidmi bunkových stien a ich význam pre vlastnosti týchto štruktúr - čo ich katalyzuje a ako (Stratilová B., Šesták, Garajová, Pakanová, Vadinová, Kučerová, Kozmon, Stratilová E.)

Pre pochopenie úlohy izoenzýmov xyloglukán endotransglykozylázy pri tvorbe a prestavbe bunkových stien rastlín je nevyhnutná ich charakterizácia na biochemickej a molekulárnej úrovni. V práci bola definovaná špecificita izoforiem tohto enzýmu z jačmeňa, HvXET3, HvXET4 a HvXET6, pričom bolo vôbec prvýkrát poukázané na schopnosť niektorých izoforiem katalyzovať heterotransglykozyláciu fragmentov xyloglukánu a celulózy na pektín, čo reprezentuje nové a zatiaľ v rastlinách nepopísané možnosti tvorby väzieb štrukturálnych polysacharidov. *In vivo* bola aktivita vizualizovaná v koreňoch jačmeňa, boli definované expresné profily týchto izoenzýmov a ich evolučné vzťahy, ako aj diskutovaný význam tohto objavu pre štruktúru bunkových stien a ich funkciu. Táto aktivita bola dôsledkom prítomnosti bázických aminokyselinových zvyškov v definovaných pozíciách, ktoré sa podielali na väzbe akceptorového substrátu, čo bolo dokázané stanovením aktivít enzýmov s bodovými mutáciami. Na základe tejto práce boli autori požiadaní, aby vypracovali prehľadný článok zaoberajúci sa danou problematikou. Projekt VEGA 2/0137/20. (**Chemický ústav SAV**).

STRATILOVÁ, Barbora - KOZMON, Stanislav - STRATILOVÁ, Eva - HRMOVÁ, Mária. Plant xyloglucan xyloglucosyl transferases and the cell wall structure: Subtle but significant. In *Molecules*, 2020, vol. 25, art. no. 5619 [25] p. (2019: 3.267 - IF, Q2 - JCR, 0.698 - SJR, Q1 - SJR, karentované - CCC). ISSN 1420-3049. Typ: ADCA

STRATILOVÁ, Barbora - ŠESTÁK, Sergej - MRAVEC, Jozef - GARAJOVÁ, Soňa - PAKANOVÁ, Zuzana - VADINOVÁ, Kristína - KUČEROVÁ, Danica - KOZMON, Stanislav - SCHWERDT, Julian G. - SHIRLEY, Neil - STRATILOVÁ, Eva - HRMOVÁ, Mária. Another

building block in the cell wall: Barley xyloglucan xyloglucosyl transferases link covalently xyloglucan and anionic oligosaccharides derived from pectin. In *The Plant Journal*, 2020, vol. 104, p. 752-754. (2019: 6.141 - IF, Q1 - JCR, 3.161 - SJR, Q1 - SJR, karentované - CCC). ISSN 0960-7412. Typ: ADCA



2.3.2. Aplikačný typ

Porovnanie klinických parametrov nového biomarkera na stanovenie PCa na základe glykoprofilácie fPSA v sére s klinickými parametrami v súčasnosti používaných pomocných testov ako %fPSA a PHI (Bertók, Jáné, Bertóková, Lorencová, Tkáč)

Na klinickú validáciu nového onkomarkera PCa na báze glykánov sa použilo porovnanie medzi dvoma rovnakými skupinami (s histologicky potvrdeným PCa alebo s benígnym stavom bez rakoviny), pričom boli použité vzorky sér od mužov, ktorí podstúpili biopsiu prostaty kvôli zvýšenému PSA. Softvérové balíčky SPSS a R sa použili na multiparametrické analýzy a na zistenie klinických parametrov z ROC kriviek (Receiver Operating Curve) a s využitím genetického algoritmu. Pri porovnaní skupín bez rakoviny a PCa vykázala kombinácia štyroch fPSA glykoforiem s dvoma klinickými parametrami (PGI, glykánový index prostaty (PGI)) hodnotu plochy pod ROC krivkou (AUC) 0,821 (95% CI 0,754 – 0,890). Hodnoty AUC boli 0,517 pre PSA, 0,683 pre %fPSA a 0,737 pre PHI. Glykánová analýza sa tiež použila na odlíšenie nádorov nízkeho stupňa (GS = 6) od významných nádorov (GS <7). Tieto výsledky indikujú, že v porovnaní s analýzou PSA samotného alebo s analýzou %fPSA a PHI vykázal PGI lepšiu diskrimináciu medzi prítomnosťou a absenciou PCa a pri predpovedaní klinicky významnej PCa. Okrem toho by použitie GPI pomohlo odborníkom vyhnúť sa 63,5% zbytočných biopsií, zatiaľ čo použitie fPSA% a PHI by pomohlo vyhnúť sa 17,5% a 33,3% zbytočných biopsií. Projekt ERC PoC. (**Chemický ústav SAV**).

BERTÓK, Tomáš - JÁNÉ, Eduard - BERTÓKOVÁ, Anikó - LORENCOVÁ, Lenka - ZVARA, Peter - SMOLKOVÁ, Božena - KUČERA, Radek - KLOCKER, Helmut - TKÁČ, Ján. Validating fPSA glycoprofile as a prostate cancer biomarker to avoid unnecessary biopsies and re-biopsies. In *Cancers*, 2020, vol. 12, art. no. 2988 [10] p. (2019: 6.126 - IF, Q1 - JCR, 1.938 - SJR, Q1 - SJR, registrované - WoS Core Collection, Scopus). ISSN 2072-6694. Typ: ADMA

2.3.3. Medzinárodné vedecké projekty

Vývoj a aplikácia vysokovýkonných afinitných metód pre glykánovú analýzu biologicky, medicínsky a diagnosticky významných vzoriek (Katrlík, Križáková, Pažitná, Kianičková, Kundalia)

V rámci dvoch projektov MVTS (APVV SK-SRB-18-0028 "Analýza glykoforiem transferínu ako potencionálych účinných biomarkerov pre medicínu" a APVV DS-FR-19-0034 "Analýza nukleových kyselín, proteínov a metabolitov ako potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky") pokračoval výskum v oblasti vývoja a aplikácie vysokovýkonných afinitných metód využívajúcich lektíny založených na microarray platforme pre analýzu biologicky, medicínsky a diagnosticky významných vzoriek a biomarkerov. Napriek problémom spôsobeným epidemickou situáciou, ktorá znemožnila plánované mobilitné aktivity, sa podarilo dosiahnuť významné výsledky, z ktorých niektoré boli publikované a ďalšie sa pre publikovanie pripravujú. Pomocou lektínovej microarray metódy sa podarila vysokocitlivá analýza (pikomolárne koncentrácie) zastúpenia glykánov na receptoroch "insulin-like growth factor" systému v súvislosti s kolorektálnym karcinómom a boli identifikované rozdiely v glykánovom zložení medzi izolovanými receptormi a celkovými membránovými proteínmi, ako aj medzi receptormi získanými z tumorového a netumorového tkaniva. Lektíny využívajúca microarray platforma sa tiež uplatnila pri analýze fukozylácie fibrinogénu ako prognostického biomarkera terminálneho štádia ochorenia obličiek (ESRD) u pacientov na peritoneálnej dialýze, kde sa ukázalo, že dôkladnejšie vyšetrenia môžu byť dobrým základom pre nájdenie potenciálneho diagnostického a prognostického markera. Informácie o glykánoch fibrinogénu môžu pomôcť pri výskume ESRD, vrátane možných kardiovaskulárnych komplikácií, a môžu tiež pomôcť pri určovaní možnej doby používania peritonea na dialýzu. Microarray metóda bola taktiež aplikovaná pri analýze rôznych typov vzoriek (sérum, plazma, trombocyty, izolované glykoproteíny) v súvislosti s tehotenskou cukrovkou v rámci výskumu zameranom na skúmanie potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky. Projekty APVV SK-SRB-18-0028 a APVV DS-FR-19-0034. (**Chemický ústav SAV**).

ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina - MASNIKOSA, Romana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Sensitive glycoprofiling of insulin-like growth factor receptors isolated from colon tissue of patients with colorectal carcinoma using lectin-based protein microarray. In *International Journal of Biological Macromolecules*, 2020, vol. 144, p. 932-937. (2019: 5.162 - IF, Q1 JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). ISSN 0141-8130. Typ: ADCA

BARALIĆ, Marko - GLIGORIJEVIĆ, Nikola - BRKOVIĆ, Voin - KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - ŠUNDERIĆ, Miloš - MILJUŠ, Goran - PENEZIĆ, Ana - DOBRIJEVIĆ, Zorana - LAUŠEVIĆ, Mirjana - NEDIĆ, Olgica - ROBAJAC, Dragana. Fibrinogen fucosylation as a prognostic marker of end-stage renal disease in patients on peritoneal dialysis. In *Biomolecules*, 2020, vol. 10, art. no. 1165 [12] p. (2019: 4.082 - IF, Q2 - JCR, 1.614 - SJR, Q1 - SJR, registrované - WoS Core Collection, Scopus). ISSN 2218-273X. Typ: ADMA

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2020 / doplnky z r. 2019
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**1 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**1 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**60 / 2**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**8 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**1 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**1 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**14 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**3 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**1**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**1 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

Evidujú len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	**Q1**	**Q2**	**Q3**	**Q4**	**Spolu**
Podľa IF z r. 2019 (zdroj JCR) *Počet článkov / doplnky*	27 / 1	26 / 1	9 / 0	3 / 0	65 / 2
Podľa SJR z r. 2019 (zdroj Scimago) *Počet článkov / doplnky*	41 / 2	20 / 0	5 / 0	2 / 0	68 / 2

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2019 / doplnky z r. 2018**
Citácie vo WOS (1.1, 2.1)	3005 / 32
Citácie v SCOPUS (1.2, 2.2)	269 / 39
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	2 / 4
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	64 / 2
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	19 / 2
Prednášky a vývesky na národných vedeckých podujatiach	35 / 0

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy C, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

BUČKO, Marek - GEMEINER, Peter. Imobilizácia živých buniek pre biokatalytickú produkciu chemických špecialít. In *Mezinárodní workshop: Studium polyelektrolytových kapsul pomocí environmentálního rastrovacího elektronového mikroskopu, 22.-26.6.2020, Ústav přístrojové techniky, Akademie věd České republiky v.v.i., Brno, Česká republika*.

TKÁČ, Ján - BERTÓK, Tomáš - JÁNÉ, Eduard - HÍREŠ, Michal - LORENCOVÁ, Lenka - PINKOVÁ GAJDOŠOVÁ, Veronika - BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - HRONČEKOVÁ, Štefánia. Analýza glykánov v diagnostike rakoviny. In *72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika*. (vyžiadaná prednáška - Dr. Tkáč)
Abstract published: In *Czech Chemical Society Symposium Series*, 2020, ročník 18, číslo 3, p. 63. PL-03. ISSN 2336-7202. *Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika*. Typ: AFE

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

– – –

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

– – –

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2020

2.7.1. Vynálezy, na ktoré bol v roku 2020 udelený patent

a) na Slovensku

– – –

b) v zahraničí

– – –

2.7.2. Vynálezy prihlásené v roku 2020

a) na Slovensku

– – –

b) v iných krajinách ako prioritná prihláška

– – –

c) PCT

– – –

d) EP

– – –

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

– – –

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2020

– – –

b) udelené v roku 2020

– – –

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

– – –

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

– – –

Finančný prínos pre organizáciu SAV v roku 2020 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bučko Marek	VEGA	1
Katrlík Jaroslav	VEGA	3
Klaudiny Jaroslav	VEGA	1
Kozmon Stanislav	VEGA	1

Lux Alexander	VEGA	1
Mastihuba Vladimír	KEGA	1
	VEGA	2
Pätoprstý Vladimír	APVV/VV 2020	2
	VEGA	1
Poláková Monika	VEGA	1
Tkáč Ján	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knižné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bella Maroš	0	0	2	0	0	0	0
Biely Peter	0	0	9	0	0	0	0
Capek Peter	0	0	3	0	0	0	0
Farkaš Pavol	0	0	3	0	0	1	0
Gemeiner Peter	0	0	4	0	0	0	0
Katrlík Jaroslav	0	0	6	0	0	0	0
Kollárová Karin	0	0	6	2	0	0	0
Kóňa Juraj	0	0	1	0	0	0	0
Kóš Miroslav	1	0	1	0	0	0	0
Košťálová Zuzana	0	0	3	0	0	0	0
Kozmon Stanislav	0	0	2	0	0	0	0
Lux Alexander	0	0	17	0	1	0	0
Mastihuba Vladimír	0	0	4	0	0	0	0
Mastihubová Mária	0	0	2	0	0	0	0
Matulová Mária	0	0	2	0	0	0	0
Mičová Júlia	0	0	2	0	0	0	0
Nahálka Jozef	0	0	3	0	0	0	0
Petruš Ladislav	0	0	2	0	0	0	0
Poláková Monika	0	0	2	0	0	0	0
Schusterová Hana	0	0	4	1	0	0	0
Stratilová Eva	0	0	1	0	0	0	0
Šimkovic Ivan	0	0	9	0	0	0	0

Šuchová Katarína	0	0	1	0	0	0	0
Tkáč Ján	0	0	33	0	0	0	0
Vadkertiová Renáta	0	0	2	0	0	0	0
Vivodová Zuzana	0	0	1	0	0	0	0
Spolu	**1**	**0**	**125**	**3**	**1**	**1**	**0**

2.11. Iné informácie k vedeckej činnosti

Z celkového počtu 71 vedeckých prác v časopisoch (oproti minulému roku nárast o 6) je 62 publikovaných v periodikách evidovaných v Current Contents Connect (CCC) (kategórie ADCA a ADDA), 8 prác je v časopisoch evidovaných vo Web of Science (WOS) a Scopus (kategórie ADMA, ADNA a ADNB) a 1 práca je v kategórii ADFB (ostatné domáce časopisy), pričom na 11.5 % z týchto prác sú autormi len pracovníci ústavu, 31.5 % prác je publikovaných v spolupráci len s domácimi a 57 % aj so zahraničnými spoluautormi.

Impakt faktor (IF) periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.390 do 9.801 (v jednom prípade presahuje 9.000, v troch prípadoch presahuje 7.000, v štyroch prípadoch presahuje 6.000, v ôsmich prípadoch presahuje 5.000, v siedmich prípadoch presahuje 4.000 a v devätnástich prípadoch presahuje hodnotu 3.000, pričom jeho priemerná hodnota 3.669 (oproti vlaňajšej hodnote mierny pokles - o 0.160) vo všetkých prípadoch presahuje (vo väčšine výrazne) hodnoty medián impakt faktora (MIF) pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 2.503 pre Biotechnology & Applied Microbiology, 2.181 pre Chemistry Organic, 3.167 pre Biochemistry & Molecular Biology, 1.812 pre Polymer Science a 2.845 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác. Túto skutočnosť potvrdzujú aj údaje o quartiloch pre dané časopisy: podľa SJR sa 64.2 % z týchto časopisov nachádza v Q1 a 28.3 % v Q2 (spolu 92.5 % v Q1 a Q2). Podľa JCR je to 40.9 % v Q1 a 40.9 % v Q2 (spolu 81.8 % v Q1 a Q2).

Celkový počet citácií 3417 (z toho 3345 sú citácie vo WOS a Scopus) je na úrovni minulého roku (3428), pričom u citácii z WOS a Scopus sa zaznamenal mierny nárast (o 27), čo možno tiež považovať za cenný kvantitatívny ale aj kvalitatívny ukazovateľ.

Na zahraničných a domácich vedeckých podujatiach bolo prezentovaných 57 príspevkov (prednášky a postre). Pokles oproti vlaňajšku bol spôsobený pandémiou COVID-19 (zrušenie takmer všetkých vedeckých konferencií a sympózií, obmedzené cestovanie, ...).

Prístup do elektronických databáz Clarivate (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (ScienceDirect, Wiley Online Library, De Gruyter, SpringerLink, Knovel, Sage Premier) značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Je poľutovaniahodné, že z financovaných databáz vypadli v roku 2020 databázy SciFinder a Reaxys (veľmi potrebné najmä pre oblasť organickej a analytickej chémie a biochémie). Apelujeme na kompetentných, aby na ďalšie obdobie opätovne zabezpečili prístup aj do týchto databáz. 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 vedeckých prác v zahraničných časopisoch a grantových projektov zo zahraničia svedčí o vysokej medzinárodnej reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i

zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií resp. pozvaniami prednášok na zahraničných univerzitách a iných vedecko-výskumných inštitúciách a vedecko-odborných podujatiach.

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri získavaní grantov. Úhrnne sa riešilo 70 vedeckých projektov (plus 5 projektov ŠF EÚ) - z toho 52 domácich (VEGA - 25, APVV - 21, iné - 6) a 18 zahraničných (3 projekty 7. RP EÚ a H2020, 2 projekty JRP, 10 projektov COST, 2 projekty v rámci medzivládnych dohôd o VTS a 1 bilaterálny projekt), pričom z čerpaných finančných prostriedkov (cca 1330,1 tisíc €), bolo 185,6 tisíc € zo zahraničných projektov, 1040 tisíc € z domácich projektov a 104,5 tisíc € bola podpora medzinárodnej spolupráce z národných zdrojov (MVTS a APVV) na projekty 7. RP EÚ a COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť štandardnú 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 moderné 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.

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 2020

Forma	Počet k 31.12.2020				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2020					
							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	M	Ž
Denná zo zdrojov SAV	4	14	1	2	2	11	1	2	0	0	0	0
Denná z iných zdrojov	1	1	0	0	0	1	0	1	0	0	0	0
Externá	0	2	0	1	0	2	0	1	0	0	0	0
Spolu	5	17	1	3	2	14	1	4	0	0	0	0
Súhrn	22		4		16		5		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2020 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov štud. odboru / štud. program	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Mgr. Jana Jakubčinová	interné štúdium hradené z prostriedkov SAV	9 / 2016	8 / 2020	1420 Chémia/ Organická chémia	RNDr. Marek Baráth PhD., Chemický ústav SAV	Prírodovedecká fakulta UK
Mgr. Dominika Kubalová	interné štúdium hradené z prostriedkov SAV	2 / 2016	2 / 2020	1420 Chémia/ Biochémia	RNDr. Peter Griač CSc., Centrum biovied SAV	Prírodovedecká fakulta UK
Ing. Filip Květoň	interné štúdium hradené z prostriedkov SAV	9 / 2016	8 / 2020	2908 Biotechnológie/ Biotechnológia	Ing. Ján Tkáč DrSc., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU

3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou v nadštandardnej dĺžke štúdia

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
Mgr. Zsófia Csáky	interné štúdium hradené z iných zdrojov	9 / 2014	3 / 2020	1420 Chémia/ Biochémia	RNDr. Ivan Hapala CSc., Centrum biovied SAV	Fakulta chemickej a potravinárskej technológie STU

Mgr. Viera Dujnič	externé štúdium	9 / 2015	8 / 2020	1420 Chémia/ Organická chémia	Ing. Vladimír Pätoprstý PhD., Chemický ústav SAV	Prírodovedecká fakulta UK

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2020 (obhajoba leto 2020)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
5	5	0	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/1, PER/1

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín.
Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

3.7. Zoznam štud. odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Kód ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Chémia	1420	Univerzita Komenského, Prírodovedecká fakulta
Chémia	1420	STU, Fakulta chemickej a potravinárskej technológie
Biotechnológie	2908	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	2908	STU, Fakulta chemickej a potravinárskej technológie
Názov študijného programu (ŠP)	**Kód ŠP**	**Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)**
Organická chémia	12408	Univerzita Komenského, Prírodovedecká fakulta
Organická chémia	4621	STU, Fakulta chemickej a potravinárskej technológie
Fyzikálna chémia	100620	Univerzita Komenského, Prírodovedecká fakulta
Fyzikálna chémia	4625	STU, Fakulta chemickej a potravinárskej technológie
Biochémia	12461	Univerzita Komenského, Prírodovedecká fakulta
Biochémia	4627	STU, Fakulta chemickej a potravinárskej technológie

Biotechnológia	12460	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológia	4626	STU, Fakulta chemickej a potravinárskej technológie
Makromolekulová chémia	4620	STU, Fakulta chemickej a potravinárskej technológie

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	**Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedec. 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 - FCHPT STU)	_ _ _	Mgr. Viera Dujnič, PhD. (PhD., Prírodovedecká fakulta UK)
Ing. Peter Gemeiner, DrSc. (biotechnológia - PriF UK a FCHPT STU)		RNDr. Marietta Hakarová (RNDr., Prírodovedecká fakulta UK)
Ing. Ján Hirsch, DrSc. (organická chémia - FCHPT STU) (organická chémia - PriF UK)		Mgr. Jana Jakubčinová, PhD. (PhD., Prírodovedecká fakulta UK)
Ing. Miloš Hricovíni, PhD. (chemická fyzika - FCHPT STU)		Ing. Filip Květoň, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Miroslav Kooš, DrSc. (organická chémia - FCHPT STU)		
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín - PriF UK) (anatomie a fyziologie rostlin - PriF Univerzity Karlovy a Masarykovy Univerzity)		
Ing. Vladimír Mastihuba, PhD. (chémia a technológia poživatín - FCHPT STU) (biotechnológia - FCHPT STU)		
doc. Ing. Ladislav Petruš, DrSc. (organická chémia - FCHPT STU) (organická chémia - PriF UK) (organická chémia - PriF UPJŠ)		
Ing. Ján Tkáč, DrSc. (biochémia - FCHPT STU) (biochémia - PriF UK) (biotechnológia - FCHPT STU)		
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia - PriF UK a FCHPT STU)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2020

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	2	0	9	1
Celkový počet hodín v r. 2020	7	0	696	100

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	14
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	19
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	20
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	33
5.	**Počet oponovaných dizertačných a habilitačných prác**	11
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	11
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	3
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	11
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	3

3.9. Iné dôležité informácie k pedagogickej činnosti

Chemický ústav SAV mal v roku 2020 akreditované 2 študijné odbory doktorandského štúdia: (1420 Chémia a 2908 Biotechnológie) na Fakulte chemickej a potravinárskej technológie STU a Prírodovedeckej fakulte UK v Bratislave. Na základe podpísaných dohôd s týmito fakultami má ústav právo školiť (ako EVI) v doktorandských študijných programoch 4621 organická chémia, 4625 fyzikálna chémia, 4627 biochémia, 4626 biotechnológia a 4620 makromolekulová chémia na FCHPT STU a v študijných programoch (12408 organická chémia, 100620 fyzikálna chémia, 12461 biochémia a 12460 biotechnológia na PriF UK v Bratislave.

V priebehu roka 2020 sa na CHÚ SAV školilo celkom 27 doktorandov (z toho 4 novoprijatí - 3 v dennej forme štúdia a 1 v externej forme štúdia), z ktorých 5 úspešne obhájilo doktorandskú dizertačnú prácu (z toho 2 v nadštandardnej dĺžke štúdia).

Zvýšil sa počet záujemcov o doktorandské štúdium na ústave, pričom najväčší záujem zo strany študentov je najmä o študijné odbory biotechnológie a biochémia. Dlhodobo menší záujem zo strany študentov je o ostatné odbory (fyzikálna chémia, makromolekulová chémia a organická chémia), napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov, a týchto si prioritne prijmú na doktorandské štúdium jednotlivé fakulty.

Vďaka zahraničnému grantu (projekt FH2020-MSCA-ITN, Dr. Tkáč) boli na doktorandské štúdium v roku 2019 prijatí dvaja zahraniční doktorandi (MSc. Aguedo z Peru a MSc. Kundalia z Indie).

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2020, sa dá predpokladať, že v roku 2021 by mali doktorandskú dizertačnú prácu obhajovať 3 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 vedecko-popularizačné aktivity. Viacerí sa aktívne zapájajú aj do pedagogickej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách a aktivity v rámci Týždňa vedy a techniky na Slovensku a Noci výskumníkov.

Za študijné a vedecké výsledky získali viacerí aj ocenenia (napr. RNDr. Lenka Lorencová, PhD. - Cena za 1. miesto v súťaži mladých vedeckých pracovníkov SAV; Ing. Filip Květoň, PhD. - Cena rektora STU; RNDr. Veronika Pinková Gajdošová - Cena dekana PriF UK; Ing. Martin Kalník a Ing. Kristína Kianičková - diplom z vedeckej konferencie).

Iná pedagogická činnosť

Ing. Tomáš Bertók, PhD.
- vedenie práce SOČ (Terézia Jurčíková, 3. ročník Bilingválne gymnázium C. S. Lewisa Petržalka: Využitie nanobiotechnológií pri diagnostike nádorových ochorení“)

Ing. Jaroslav Katrlík, PhD.
- vedenie práce v rámci predmetu Laboratórny projekt z Biotechnológie II (Kristína Pisoňová, 2. ročník, Ústav biochémie a mikrobiológie FCHPT STU)

Ing. Marek Nemčovič, PhD.
Ing. Zuzana Pakanová, PhD.
- prednáška na synBIOcarb TE5 "MS analysis of glycoproteins with a focus on medical applications" a 2 praktické cvičenia "Mass spectrometry in glycomics Part 1" a "Mass spectrometry in glycomics Part 2" na tréningovom kurze pre doktorantov v rámci Marie Currie štipendijného programu.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2020 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 12.05.-15.05.2020
V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2021.

8. medzinárodné sympózium o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 06.09.-09.09.2020
V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2021.

Chémia smerom k biológii 10 (CTB10)/INSTRUCT-ULTRA, Bratislava, Slovensko, 08.11.-12.11.2020

V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2021.

15. Bratislavské sympózium o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 16.11.-20.11.2020
V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2021.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2021 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

47th Annual Conference on Yeasts/47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 11.05.-14.05.2021, (Hana Schusterová, 02/ 59410262, chemhadu@savba.sk)

Chemistry towards Biology (CTB10) and INSTRUCT-ULTRA Structural biology meeting/Chémia smerom k biológii a INSTRUCT-ULTRA míting o štruktúre biomolekúl, Bratislava, Slovensko, 06.09.-10.09.2021, (Miloš Hricovíni, 02/ 59410323, 02/ 59410256, chemilos@savba.sk)

8th International Symposium on Structure and Function of Roots/8. Medzinárodné sympózium o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 12.09.-16.09.2021, (Alexander Lux, 02/ 60296457, lux@fns.uniba.sk)

15th Bratislava Symposium on Saccharides/15. Bratislavské sympózium o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 11.10.-15.10.2021, (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

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Baráth Marek	0	0	1
Blahutová Jana	0	1	0
Guthová Jana	0	1	0
Hricovíni Miloš	0	0	1
Hricovíniová Zuzana	0	1	0
Katrlík Jaroslav	0	0	1
Kollárová Karin	0	2	0
Kóňa Juraj	0	2	0
Kučerová Danica	0	1	0
Lux Alexander	0	1	0
Schusterová Hana	0	1	0
Švančarová Oľga	0	1	0
Uhliariková Iveta	0	1	0
Vadkertiová Renáta	0	0	1
Vivodová Zuzana	0	2	0
Spolu	0	14	4

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.

International Academy of Wood Science (funkcia: volený člen (Fellow of IAWS))
Komisia pre kvasinky Československej spoločnosti mikrobiologickej (funkcia: člen)

Mgr. Peter Capek, PhD.

Management Committee COST Action CA18238 (funkcia: národný zástupca)

Ing. Pavol Farkaš, PhD.

Management Committee CA COST Action CA16231 (funkcia: národný zástupca)

Ing. Peter Gemeiner, DrSc.

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

European Carbohydrate Organization (funkcia: národný reprezentant)
INSTRUCT-ERIC (European Research Infrastructure Consortium) (funkcia: zástupca SR)
International Carbohydrate Organization (funkcia: národný reprezentant)
Management Committee COST Action CA18103 (funkcia: národný zástupca)

Ing. Zdenka Hromádková, PhD.

Management Committee COST Action CA18224 (funkcia: národný zástupca)

Ing. Jaroslav Katrlík, PhD.

International Glycoconjugate Organisation (funkcia: národný reprezentant)
Management Committee CA COST Action CA16113 (funkcia: národný zástupca)
Management Committee COST Action CA18103 (funkcia: MC Substitute)
Management Committee COST Action CA18132 (funkcia: národný zástupca)

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Miroslav Kóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

Ing. Zuzana Košťálová, PhD.

Management Committee COST Action CA18101 (funkcia: národný zástupca)

prof. RNDr. Alexander Lux, CSc.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)
International Society for Silicon in Agriculture (ISSAG) (funkcia: člen)

Japaneese Society for Plant Roots (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Management Committee COST Action CA18101 (funkcia: MC Substitute)
Management Committee COST Action CA18103 (funkcia: národný zástupca)
Management Committee FPS COST Action CA17128 (funkcia: národný zástupca)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)
Management Committee COST Action CA18132 (funkcia: MC Substitute)
Management Committee COST Action CA18224 (funkcia: národný zástupca)

RNDr. Ján Mucha, CSc.

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

Ing. Vladimír Pätoprstý, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

Česká společnost chemická (funkcia: čestný člen)

Ing. Hana Schusterová, PhD.

Československá spoločnosť mikrobiologická (funkcia: tajomníčka výboru Komisie pre kvasinky)
Management Committee COST Action CA15136 (funkcia: MC Substitute)

Ing. Katarína Šuchová, PhD.

Management Committee CA COST Action CA18229 (funkcia: národný zástupca)

Ing. Ján Tkáč, DrSc.

American Chemical Society (funkcia: člen)
Bioelectrochemical Society (funkcia: člen)
Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)
Management Committee COST Action CA18103 (funkcia: MC Substitute)
Management Committee COST Action CA18132 (funkcia: MC Substitute)

Ing. Igor Tvaroška, DrSc.

International Steering Committee of the International Consortium on Anti-Virals (ISC ICAV) (funkcia: člen)

Ing. Renáta Vadkertiová, PhD.

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

Zbierka kultúr kvasiniek

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

Chemický ústav SAV

- Instruct-ERIC (European Research Infrastructure Consortium)
- CDG & Allies – PPAIN (Congenital Disorders of Glycosylation & Allies – Professionals and Patient Associations International Network)

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
Biely Peter	NWO Open Competition Domain Science - KLEIM-1, The Netherlands	1
Hricovíni Miloš	CEITEC Application, Česko	1
Katrlík Jaroslav	CINECA-FISR	4
	ERA.Net RUS Plus call 2020	2
	H2020-FETOPEN-2018-2019-2020-01	3
	H2020-MSCA-IF-2020	4
	H2020-MSCA-RISE-2020	2
	H2020-WIDESPREAD-05-2020 – Twinning	1
Tkáč Ján	ANR, AAP Genérique, France	1
	ERA.Net RUS Plus call 2020	1
	KWF Unique High Risk Project, The Netherlands	1

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

Výsledky získané z projektovej MVTS (COST, bilaterálne projekty, V4-Korea Joint Reseach Program, SAS-MOST-JRP, ...) v oblasti organických syntéz, glyko-biomarkerov pre medicínu (rôzne druhy rakoviny), glykonanomateriálov, výskumu glykánov, aplikácii karotenoidov a iných oblastiach, rezultovali v množstve spoločných publikácií a príspevkov na vedeckých podujatiach.

Okrem participácie na spoločných vedeckých projektoch umožňuje MVTS pracovníkom ústavu najmä dofinancovanie niektorých projektov EÚ, využitie špičkovej prístrojovej techniky (analytickej, výpočtovej) a inej infraštruktúry 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 získavajú pracovníci ústavu veľmi cenné experimentálne skúsenosti, zručnosti a teoretické poznatky z najmodernejších metodík využívaných v súčasnosti pri riešení vedeckých problémov.

Prostredníctvom MVTS sa viacerí riešitelia projektov zúčastňujú významných zahraničných vedeckých podujatí (konferencie, semináre, workshopy) a nadväzujú nové kontakty a spolupráce. Jednej doktorandke umožnila MVTS trojmesačnú stáž na zahraničnom pracovisku. Viacerí doktorandi využívajú možnosť krátkodobých pobytov na partnerských pracoviskách. Žiaľ, kvôli pandémii COVID-19 boli tieto aktivity v roku 2020 značne obmedzené.

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. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Comments and recommendations for further improvement of the institute

- The large number of expensive new sophisticated instruments obtained from the structural funds is seen as problematic, because follow up costs for management, maintenance and staff training that will be required to operate the instruments efficiently and at their full capacity will be a considerable burden on the budget of the institute. This is particularly important as many of the instruments will be out-dated in a few years due to continuing technical developments, so that operating the instruments at their full capacity should be a near-term priority. A strategy for optimal use of this infrastructure within the SAS should be developed.
- An international scientific advisory board should be established.
- Hosting an ERC starting grant is a highlight of the institute. The research direction opened by this project should be continued at the institute after the ending of the grant period.
- Further improving output in high-level scientific journal publications and hiring younger personnel as scientific staff to decrease average age of scientists should be achieved.
- Eight scientific and two more service-oriented departments is a rather high number of departments. possibilities to consolidate different departments should be considered.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

A. Zvyšovanie kvantity a kvality výstupov výskumu
- modifikovať existujúci stimulačný model odmeňovania publikačných výstupov jednotlivcov, ktorý bude okrem kategórií karentovaných publikácií ADC a ADD zohľadňovať aj publikácie v impaktovaných nekarentovaných časopisoch podľa WOS a SCOPUS (t.j. kategórie ADM a ADN) ako aj kvartil časopisu;
- na základe pravidelného ročného vyhodnocovania publikačnej činnosti jednotlivcov (priemer za predošlé 4 roky) upravovať osobné hodnotenie a zaraďovanie do platových tried;
- vyhodnocovanie publikačnej činnosti zohľadňovať aj pri možnosti vypisovania tém doktorandských prác resp. pri žiadostiach o pridelenie doktoranda alebo postdoktoranda.

Všetky uvedené opatrenia sa v roku 2020 priebežne realizovali a ďalej sa v nich pokračuje. Medziročne vzrástol počet publikácií v kvalitných vedeckých časopisoch (kvartily prevažne Q1 a Q2 ako aj nárast hodnoty pre Medián Impakt Faktor, vypočítanej pre časopisy, v ktorých boli články publikované).

B. Zvyšovanie kvality doktorandského štúdia
- vypracovať interné kritériá CHÚ SAV pre výber školiteľov; podmienkou je aktívna a kvalitná publikačná činnosť a existencia projektu, v rámci ktorého sa PhD štúdium realizuje;
- venovať vyššiu pozornosť témam doktorandských prác z hľadiska obsahu, aktuálnosti a experimentálneho zabezpečenia;
- výsledky doktorandov a stav doktorandského štúdia naďalej pravidelne vyhodnocovať;
- zvyšovať podiel zahraničných doktorandov; umožniť stáže našich doktorandov v prestížnych laboratóriách a recipročne umožniť stáže zahraničných doktorandov na CHÚ SAV v nadväznosti na uzavreté dohody o spolupráci SAV s kvalitnými univerzitami.

Všetky uvedené opatrenia sa v roku 2020 priebežne realizovali a ďalej sa v nich pokračuje.

C. Kariérny rast postdoktorandov a výskumníkov
- vypracovať podmienky kariérneho rastu postdoktorandov;
- vypracovať podmienky získania stálej pozície.

Tieto podmienky zatiaľ vypracované neboli, ale pre potreby ústavu kariérny rast a získanie stálej pozície zabezpečuje vedenie ústavu v súčinnosti s vedeckou radou.

D. Zvyšovanie úspešnosti v projektovej činnosti
- iniciovať a stimulovať podávanie projektov ERC, ERA, Horizon 2020 a pod., osobitne v kategórii starting a consolidator grant, identifikovať potenciálnych podávateľov a pracovať s nimi;
- pravidelne ročne analyzovať aktivitu organizácie v podávaní projektov;
- pridelenie PhD študentov podmieňovať získaním grantov u potenciálnych školiteľov.

Všetky uvedené opatrenia sa v roku 2020 realizovali a ďalej sa v nich pokračuje.

E. Manažment ústavu
- vytvoriť nezávislý medzinárodný poradný výbor (advisory board);
- rozvíjať multidisciplinárny výskum v spolupráci s inými vedeckými organizáciami SAV a mimo SAV;
- prehodnocovať činnosť jednotlivých oddelení a optimalizovať zloženie výskumných kolektívov.

Medzinárodný poradný výbor bol vytvorený začiatkom roka 2020. Ostatné opatrenia sa v roku 2020 realizovali priebežne a ďalej sa v nich pokračuje.

F. Nakladanie s duševným vlastníctvom
- pripraviť vlastné pravidlá pre nakladanie s duševným vlastníctvom (patenty a pod.) resp. aplikovať takéto pravidlá spoločné pre celú SAV a stimulovať patentové aktivity vedeckých pracovníkov.

Vlastné pravidlá zatiaľ vypracované neboli a aplikujú sa centrálne usmernenia zo SAV. Stimulácia sa rieši formou odmien.

G. Financovanie a riadenie výskumných infraštruktúr
- realizovať pravidelný audit využitia výskumnej infraštruktúry získanej za ostatných 10 rokov a odstrániť zistené nedostatky;
- pravidelne aktualizovať informácie o možnom použití významnejších zariadení pre vonkajších záujemcov tak zo SAV, ako aj mimo SAV;
- participovať na vypracovaní stratégie zapojenia sa svojou infraštruktúrou do tzv. core facility v rámci areálu SAV, prípadne v rámci ESFRI.

Prvé dve opatrenia sa v roku 2020 priebežne realizovali a ďalej sa v nich pokračuje. V súvislosti so zapojením sa do tzv. core facility očakávame, že sa situácia bude riešiť na celoakademickej úrovni a ústav je pripravený sa do týchto aktivít zapojiť.

5.3. Aktualizácia Akčného plánu organizácie v roku 2020

V roku 2020 nedošlo k výraznejšej aktualizácii Akčného plánu a priebežne sa plnili alebo modifikovali opatrenia prijaté v minulom období.

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria vedeckú náplň 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. Ústav sa výrazne zapája aj do výziev OP ŠF EÚ. 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 mimobratislavské kraje (ca 9.86 mil €), v rámci ktorých bol ústav vybavený unikátnou prístrojovou technikou. 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). Dva projekty boli úspešné, ale

v roku 2017 boli tieto výzvy zrušené. Ústav sa následne zapojil do výziev (Výskumno-vývojové kapacity, RIS3, SPVVC a DSV) vyhlásených v rokoch 2018 a 2019 (v 3 projektoch ako žiadateľ a v 4 projektoch ako partner). Z týchto projektov bolo 5 schválených na financovanie. V roku 2020 sa ústav zapojil (ako partner) do dvoch výziev (COVID-19).

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. Vývoj v zameraní výskumu v ostatných rokoch (orientácia na biomedicínsky výskum) však naznačuje, že postupne bude žiadúca určitá reorganizácia jednotlivých oddelení. 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 roku 2018 boli aktualizované dokumenty súvisiace s civilnou ochranou obyvateľstva a vypracovávali sa dokumenty, súvisiace s ochranou osobných údajov (GDPR).

Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na cca 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedeckí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v roku 2020 mal ústav 1 držiteľa tohoto štipendia - Dr. Sládek). Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov CHÚ SAV. V roku 2020 ústav zamestnal 3 mladých postdoktorandov (do jedného roka od ukončenia PhD štúdia) a v rámci novej schémy podpory prijímania mladých postdoktorandov v SAV získal pre jedného z nich (Dr. Květoň) finančnú podporu od roku 2021. V 2. výzve programu Granty pre doktorandov SAV (DoktoGrant) bol úspešný 1 doktorand (Ing. Kalník) a získal grant vo výške 2000 € na podporu svojho vedeckého projektu. 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, ...).

Z prostriedkov ŠF EÚ (projekt "Kapacity") je ambíciou prijať niekoľko doktorandov nad limit stanovený z centrálnych zdrojov a taktiež zamestnať úspešných a kvalitných postdoktorandov.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta biotechnológie a potravinárstva SPU
Oblasť spolupráce: Spoločné pracovisko metabolomiky rastlín, rastlinných surovín a potravín

rastlinného pôvodu
Sídlo spoločného pracoviska: Fakulta biotechnológie a potravinárstva SPU v Nitre
Začiatok spolupráce: 2009
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: Fakulta chemickej a potravinárskej technológie STU
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 2007
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, ktorého nositeľom bol CHÚ SAV) 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 chemickej a potravinárskej technológie STU
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Združené laboratórium Fourier Transform Infrared (FTIR) Spectroscopy, založené v roku 1995, je spoločným pracoviskom Chemického ústavu SAV, Ústavu anorganickej chémie SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Vybavené je spektrometrom NICOLET 6700, zakúpeným v roku 2008 z prostriedkov projektu MACHINA a slúži pre potreby výskumu, na pedagogické účely ako aj základné servisné merania. V r. 2010 bol spektrometer doplnený o ďalšie príslušenstvo. Neskôr bol doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť. Z prostriedkov ŠF EÚ získalo pracovisko v r. 2012 disperzný DXR Raman mikroskop a v r. 2015 bolo pracovisko vybavené špičkovými prístrojmi: FTIR Mikroskop Nicolet iN10 a FTIR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FTIR Raman (Thermo Fisher Scientific) z prostriedkov ŠF EÚ. Výstupy v roku 2020: 2 publikácie a 2 príspevky na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska: Chemický ústav SAV

Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Viď informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Ústav anorganickej chémie SAV
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Viď informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov organizácie: Ústav merania SAV
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska: Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Názov inštitúcie: Axxence s.r.o.
Oblasť spolupráce: Axxence Park-Hala 1: Aplikovaný výskum v oblasti priemyselnej biokatalýzy
Sídlo spoločného pracoviska: Axxence s.r.o., Bratislava, Axxence Park - Hala 1
Začiatok spolupráce: 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. V minulosti sa riešili spoločné vedecké projekty.

Názov inštitúcie: Saneca Pharmaceuticals a.s., Hlohovec
Oblasť spolupráce: Saneca-Infraštruktúra-HL: Aplikovaný výskum v oblasti biomedicíny
Sídlo spoločného pracoviska: Saneca Pharmaceuticals a.s., Hlohovec
Začiatok spolupráce: 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, ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie a izolácie dôležitých prírodných látok, resp. ich prekurzorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko v r. 2015 vybavené modernou prístrojovou technikou v hodnote 9.86 mil. €. Túto v súčasnosti využívajú všetky subjekty Združenia právnických osôb Omics4Health (O4H), ktoré vzniklo v r. 2015 (CHÚ SAV, Ústav experimentálnej farmakológie a toxikológie SAV a súkromné spoločnosti Saneca Pharmaceuticals a.s., Biosynth, s.r.o. a SITNO PHARMA s.r.o.). Podaný bol spoločný projekt do výzvy OP ŠF (COVID-19).

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov
Agentúra: APVV
číslo projektu: APVV-18-0188
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU
Koordinátor projektu: Ing. Vladimír Mastihuba, PhD.
Začiatok spolupráce: 2019
Koniec spolupráce: 2023

Názov projektu: Identifikácia a vlastnosti biologicky aktívnych látok izolovaných v rámci fytochemických štúdií
Agentúra: VEGA
číslo projektu: 1/0763/19
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU
Koordinátor projektu: Ing. Michal Šoral, PhD.
Začiatok spolupráce: 2019
Koniec spolupráce: 2021

Názov projektu: Intenzifikácia vývoja, produkcie a neinvazívnej charakterizácií nových imobilizovaných biokatalyzátorov na báze enzýmových kaskád pre produkciu chemických špecialít
Agentúra: VEGA
číslo projektu: 2/0130/20
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU
Koordinátor projektu: Ing. Marek Bučko, PhD.
Začiatok spolupráce: 2020
Koniec spolupráce: 2023

Názov projektu: Imobilizované rekombinantné mikroorganizmy pre biotechnologickú produkciu chemických špecialít pomocou biokatalytických kaskádových reakcií
Agentúra: APVV

číslo projektu: APVV-15-0227
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU; Medzinárodné laserové centrum
Koordinátor projektu: Ing. Marek Bučko, PhD.
Začiatok spolupráce: 2016
Koniec spolupráce: 2020

Názov projektu: Nové antivirálne liečivá: Dizajn, syntéza a testovanie aktivity nových špecifických inhibítorov virálnych proteáz koronavírusu SARS-CoV-2
Agentúra: APVV
číslo projektu: PP-COVID-20-0010
Spolupracujúce inštitúcie: Fakulta prírodných vied, Univerzita sv. Cyrila a Metoda v Trnave; Farmaceutická fakulta UK; Prírodovedecká fakulta UK
Koordinátor projektu: Univerzita sv. Cyrila a Metoda v Trnave (prof. Ing. Stanislav Miertuš, DrSc.)
Začiatok spolupráce: 2020
Koniec spolupráce: 2021

Názov projektu: Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok
Agentúra: APVV
číslo projektu: APVV-17-0239
Spolupracujúce inštitúcie: Farmaceutická fakulta UK; ICARST, n.o.
Koordinátor projektu: doc. Ing. Vladimír Frecer, DrSc.
Začiatok spolupráce: 2018
Koniec spolupráce: 2022

Názov projektu: Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom
Agentúra: Výskumná agentúra
číslo projektu: 313011V578
Spolupracujúce inštitúcie: GENETON s.r.o.; Medirex Group Academy, n.o.; POWERTEC s. r. o.; Slovgen s.r.o.; Univerzitná nemocnica s poliklinikou Milosrdní bratia
Koordinátor projektu: Univerzita Komenského v Bratislave (RNDr. Tomáš Szemes, PhD.)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023

Názov projektu: Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty
Agentúra: EC Brussels
číslo projektu: Grant agreement ID: 825586
Spolupracujúce inštitúcie: Glycanostics, s.r.o.
Koordinátor projektu: Ing. Ján Tkáč, DrSc.
Začiatok spolupráce: 2018
Koniec spolupráce: 2020

Názov projektu: Analýza glykoforiem transferínu ako potencionálych účinných biomarkerov pre medicínu
Agentúra: APVV
číslo projektu: APVV-SK-SRB-18-0028
Spolupracujúce inštitúcie: Institute for Applied Nuclear Energy, University of Belgrade, Belgrade, Serbia
Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.

Začiatok spolupráce: 2019
Koniec spolupráce: 2021

Názov projektu: Dizajn, syntéza a charakterizácia účinných inhibítorov manozidáz na báze iminosacharidov a glykokonjugátov
Agentúra: SAS-MOST-JRP Program
číslo projektu: SAS-MOST/JRP/2019/882/GM-INHIB
Spolupracujúce inštitúcie: Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan
Koordinátor projektu: SAS, Academia Sinica (Dr. Kóš, Prof. Doo Soo Chung)
Začiatok spolupráce: 2020
Koniec spolupráce: 2022

Názov projektu: Analýza príčin úmrtia pacientov a optimalizácia diferenciálnej diagnostiky v súvislosti s infekciou SARS-CoV-2 v Slovenskej republike
Agentúra: APVV
číslo projektu: PP-COVID-20-0051
Spolupracujúce inštitúcie: Lekárska fakulta UK v Bratislave; Prírodovedecká fakulta UK; Vedecký park UK
Koordinátor projektu: Univerzita Komenského v Bratislave (prof. MUDr. Pavel Babál, CSc.)
Začiatok spolupráce: 2020
Koniec spolupráce: 2021

Názov projektu: Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa
Agentúra: Výskumná agentúra
číslo projektu: 313010W428
Spolupracujúce inštitúcie: Medirex Group Academy, n.o., Bratislava (MUDr. Pavol Janega, PhD.)
Koordinátor projektu: Medirex Group Academy, n.o.
Začiatok spolupráce: 2020
Koniec spolupráce: 2023

Názov projektu: CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby
Agentúra: Výskumná agentúra
číslo projektu: 313011V358
Spolupracujúce inštitúcie: NÚRCH Piešťany; Technická univerzita v Košiciach; MEDICAL VISION; PANARA, s.r.o.; DB Biotech, a.s.; Biomedical Engineering, s.r.o.; REGENMED, spol. s r. o.
Koordinátor projektu: Národný ústav reumatických chorôb (MUDr. Stanislav Žiaran, PhD., MPH, FEBU)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023

Názov projektu: Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu
Agentúra: Výskumná agentúra
číslo projektu: 313011W410
Spolupracujúce inštitúcie: NÚRCH Piešťany; Technická univerzita v Košiciach; REGENMED, spol. s r. o.
Koordinátor projektu: Národný ústav reumatických chorôb (MUDr. Stanislav Žiaran, PhD., MPH, FEBU)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023

Názov projektu: Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách
Agentúra: APVV
číslo projektu: APVV-17-0164
Spolupracujúce inštitúcie: Prirodovedecká fakulta UK
Koordinátor projektu: RNDr. Marek Vaculík, PhD.
Začiatok spolupráce: 2018
Koniec spolupráce: 2022

Názov projektu: Štruktúrne a funkčné adaptácie vybraných extremofilov a poľnohospodárskych plodín na abiotické stresory
Agentúra: VEGA
číslo projektu: 1/0605/2017
Spolupracujúce inštitúcie: Prirodovedecká fakulta UK
Koordinátor projektu: Mgr. Marek Vaculík, PhD.
Začiatok spolupráce: 2017
Koniec spolupráce: 2020

Názov projektu: Vývoj nových techník úpravy biomedicínskych a environmentálnych vzoriek pre pokročilé kombinované analytické metódy
Agentúra: VEGA
číslo projektu: 1/0787/18
Spolupracujúce inštitúcie: Prirodovedecká fakulta UK
Koordinátora projektu: doc. RNDr. Marián Masár, PhD.
Začiatok spolupráce: 2018
Koniec spolupráce: 2021

Názov projektu: Mikroelektroforetické nástroje pre bioanalýzu
Agentúra: V4-Korea Joint Reseach Program
číslo projektu: nemá
Spolupracujúce inštitúcie: Ústav analytické chemie AV ČR, v.v.i., Brno, Česko; Centre for Molecular Medicine, University of Debrecen, Debrecen, Hungary; Medical University of Gdansk, Gdansk, Poland; Bioanalytical Chemistry Laboratory, Seoul National University, Seoul, Korea
Koordinátora projektu: SAS, Seoul National University (Dr. Pätoprstý, Prof. Doo Soo Chung)
Začiatok spolupráce: 2017
Koniec spolupráce: 2020

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Spolupracujúca inštitúcia: Adam Mickiewicz University, Faculty of Chemistry, Poznań, Poland - neformálna spolupráca. Zameranie: Teoretická a spektroskopická charakterizácia molekulových systémov s výhľadom na biologickú/medicínsku aplikáciu. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Botanický ústav Akademie věd ČR, Třeboň, Česko - neformálna spolupráca. Zameranie: Výskum nových sladkovodných rias s významnou produkciou extracelulárnych polysacharidov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Ege University, Engineering Faculty, Food Engineering Department, Izmir, Turkey - podpísaná dohoda o spolupráci. Zameranie: Izolácia a charakterizácia polysacharidov z agro-industriálnych lesných odpadov. Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Spolupracujúca inštitúcia: Fakulta elektrotechnická ČVUT, Praha, ČR - neformálna spolupráca. Zameranie: Syntéza nanočastíc na báze ZnO. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia, 1 článok odoslaný do redakcie a 3 príspevky na vedeckej konferencii.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav anorganickej chémie, technológie a materiálov - neformálna spolupráca. Zameranie: Stanovenie štruktúry sacharidových derivátov X-ray technikami. Zhodnotenie: Výsledkom spolupráce je 1 spoločna publikácia.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie - neformálna spolupráca. Zameranie: a) analýza nutraceutík a polysacharidových zložiek cereálií; b) štúdium štruktúry a vlastností biologicky aktívnych sacharidov; c) štúdium lektínových biočipov a biosenzorov; d) imunobiologická aktivita látok pre biomedicínske aplikácie; e) hydrofóbne iónové párovanie. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia, vedenie 2 diplomových prác a 1 Bc. práce, letná a preddiplomová prax.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie - neformálna spolupráca. Zameranie: Štúdium lektínových biočipov a biosenzorov; štúdium enzýmových transglykozylačných reakcií a chemoselektívnych enzýmových acylácií a deacylácií. Zhodnotenie: Výsledkom spolupráce je 1 preddiplomová prax, odborné konzultácie a pedagogické aktivity.

Spolupracujúca inštitúcia: Fakulta chemickej a potravinárskej technológie STU, Ústav chemického a environmentálneho inžinierstva, Oddelenie chemického a biochemického inžinierstva - neformálna spolupráca. Zameranie: Izolácia a purifikácia raritných glykozidáz. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Fakulta prírodných vied UCM, Katedra biotechnológií, Trnava - neformálna spolupráca. Zameranie: a) Štúdium lektínových biočipov a biosenzorov; b) Štúdium enzýmových glykozylácií. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 3 príspevky na vedeckých konferenciách, školenie 1 doktorandky, vedenie 1 diplomovej práce.

Spolupracujúca inštitúcia: Fakulta prírodných vied UCM, Katedra chémie, Trnava - podpísaná dohoda o spolupráci. Zameranie: Riešenie vedecko-výskumných úloh, výchova absolventov a doktorandov a využívanie modernej prístrojovej techniky. Zhodnotenie: Konzultácie a oponentúry Bc. a diplomových prác.

Spolupracujúca inštitúcia: Fakultná nemocnica Trenčín, Onkologické oddelenie, Bratislava - neformálna spolupráca. Zameranie: Identifikácia onkologických ochorení. Zhodnotenie: 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. Výsledkom spolupráce sú 2 konferenčné príspevky a príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Farmaceutická fakulta UK, Katedra bunkovej a molekulárnej biológie liečiv - neformálna spolupráca. Zameranie: Kultivácia a analýzy vybraných liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je vedenie 2 diplomových prác.

Spolupracujúca inštitúcia: Fyzikální ústav Akademie věd ČR, Praha, Česko - neformálna spolupráca. Zameranie: Nanoštrukturové hybridné organicko-anorganické komponenty. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia, 1 článok odoslaný do redakcie a 2

príspevky na vedeckej konferencii.

Spolupracujúca inštitúcia: Huaiyin Normal University, School of Life Sciences, China - neformálna spolupráca. Zameranie: Štúdium bunkových stien rastlín. Zhodnotenie: Výsledkom spolupráce sú 3 spoločné publikácie.

Spolupracujúca inštitúcia: Institute of Chemical Technology and Engineering, Poznan University of Technology, Poznan, Poland - neformálna spolupráca. Zameranie: Štúdium biosurfaktantov na báze sacharidov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Jesséniova lekárska fakulta, Ústav farmakológie, Martin - neformálna spolupráca. Zameranie: Štúdium farmakodynamických vlastností biopolymérov izolovaných z liečivých rastlín a mikrorias. Zhodnotenie: Výsledkom spolupráce sú 3 spoločné publikácie.

Spolupracujúca inštitúcia: LABO-SK, s r. o. - neformálna spolupráca. Zameranie: Poskytnutie laboratórnych priestorov a potrebného sterilného prostredia (laminárny box) na alikvotovanie denaturačného roztoku vírusových častíc. Spoločnosť LABO tieto roztoky následne dodáva na celé Slovensko.

Spolupracujúca inštitúcia: Lekárska fakulta UK, II.onkologická klinika LF UK a NOÚ - neformálna spolupráca. Zameranie: Diagnostika testikulárneho karcinómu a odber vzoriek. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Lodz University of Technology, Institute of Fermentation Technology and Microbiology, Department of Environmental Biotechnology, Lodz, Poland - neformálna spolupráca. Zameranie: *Metschnikowia pulcherrima* ako zdroj lipidov a pulcherimínu. Zhodnotenie: Spolupráca pri experimentoch zameraných na: a) skríning kultúr skupiny *M. pulcherrima* s cieľom nájsť čo najlepších producentov pulcherimínu; b) využitie pulcherimínu ako antifungálneho agensu; c) využitie pulcherimínu ako ochrannej látky pri úschove kvasiniek v kvapalnom dusíku.

Spolupracujúca inštitúcia: Masarykova univerzita, CEITEC, Brno, Česko - neformálna spolupráca. Zameranie: Štúdium neväzbových interakcii sacharidov a reakčného mechanizmu glykozyltransferáz použitím výpočtových metód. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 2 príspevky na vedeckých konferenciách.

Spolupracujúca inštitúcia: Masarykova univerzita, Přírodovědecká fakulta,Národní centrum pro výzkum biomolekul, Brno, Česko - neformálna spolupráca. Zameranie: Štúdium katalytického mechanizmu glykozyltransferáz. Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 1 prezentácia na vedeckej konferencii.

Spolupracujúca inštitúcia: MultiplexDX, spol. s r. o. - neformálna spolupráca. Zameranie: Poskytnutie priestorov a potrebnej infraštruktúry zamestnancom spoločnosti MultiplexDX pre downstream procesy po syntéze primerov a prób pre RT-qPCR diagnostický test na SARS-CoV-2.

Spolupracujúca inštitúcia: N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Laboratory of Glycoconjugate Chemistry, Moscow, Russia - neformálna spolupráca. Zameranie: Imnunoglykomické aspekty synteticky pripravených oligoglykozidov mimikujúcich natívne fungálne oligoglykozidy. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a príprava ďalšej publikácie.

Spolupracujúca inštitúcia: Národný ústav detských chorôb, Klinika detskej psychiatrie - neformálna spolupráca. Zameranie: Glykoprofilovanie vzoriek sér detských pacientov s neurovývojovými

ochoreniami. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie a 2 prezentácie na vedeckej konferencii.

Spolupracujúca inštitúcia: National Cheng Kung University in Tainan, Department of Medical Laboratory Science and Biotechnology, Taiwan - neformálna spolupráca. Zameranie: Štrukturálna analýza extracelulárnych biopolymérov. Zhodnotenie: Výsledkom spolupráce je štúdium štrukturálnych a fyzikálno-chemických vlastností a biologických účinkov extracelulárnych biopolymérov produkovaných mikroriasami a využívanie moderných metód chemických analýz.

Spolupracujúca inštitúcia: Onkologický ústav sv. Alžbety, s.r.o., Bratislava - neformálna spolupráca. Zameranie: Imunobiologický výskum sérodiagnostiky fungálnych glykánov a antiglykánových protilátok. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Prírodovedecká fakulta UK, Katedra biochémie - neformálna spolupráca. Zameranie: a) Štúdium, návrh a modelovanie možných inhibítorov enzýmov podieľajúcich sa na syntéze galaktánového reťazca bunkovej steny mykobaktérií; b) glykomická analýza oligosacharidov mutanta *Mycobacterium* sp. a proteomická analýza bielkovín dýchacieho reťazca u trypanosomatíd. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie zverejnené a 2 odoslané do redakcie.

Spolupracujúca inštitúcia: Qatar University, Doha, Qatar - neformálna spolupráca. Zameranie: a) Štúdium glykánových a lektínových biosenzorov; b) štúdium polysacharidových kompozitných vrstiev. Zhodnotenie: Výsledkom spolupráce je 1 kapitola v knihe a 8 spoločných publikácií.

Spolupracujúca inštitúcia: Rikkyo (St. Paul's) University, Japan College of Science, Department of Chemistry, Tokyo, Japan - podpísaná dohoda o spolupráci. Zameranie: Štúdium neväzbových interakcií sacharidov a ich analógov použitím výpočtových metód; aplikácie ab initio metód kvantovej chémie na charakterizáciu a predikciu interakcií proteínov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: The Catholic University of Korea, Department of Biotechnology, Bucheon, Republic of Korea - neformálna spolupráca. Zameranie: Štruktúra a biologická aktivita polysacharidov z rias. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Universidad Complutense de Madrid, Facultad de Farmacia, Departamento de Microbiología II, Madrid, Spain - neformálna spolupráca. Zameranie: Štruktúrna analýza Crh transglykozyláz. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Spolupracujúca inštitúcia: Universität für Bodenkultur, Institut für Chemie, Wien, Österreich - neformálna spolupráca. Zameranie: Štruktúrna analýza N- a O-viazaných oligosacharidov; MS/MS analýza glykokonjugátov; štruktúra glykopeptidov; definícia glykoprofilu krvného séra v diagnostike. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia a krátkodobé študijné pobyty.

Spolupracujúca inštitúcia: University of Adelaide, School of Agriculture, Food and Wine, and Waite Research Institute, Glen Osmond, Australia - neformálna spolupráca. Zameranie: Štúdium bunkových stien rastlín. Zhodnotenie: Výsledkom spolupráce sú 3 spoločné publikácie.

Spolupracujúca inštitúcia: University of Copenhagen, Department of Plant and Environmental Sciences, Frederiksberg, Denmark - neformálna spolupráca. Zameranie: In-vivo stanovenie transglykozylačných reakcií. Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Spolupracujúca inštitúcia: Univerzita Karlova a Všeobecní fakultní nemocnice, 1. Lékařská fakulta a Klinika dětského a dorostového lékařství, Praha, Česko - neformálna spolupráca. Zameranie: Dedičné metabolické ochorenia/GSD/ a štruktúrna analýza krvného ApoCIII/identifikácia O-viazaných oligosacharidov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia a odborné konzultácie.

Spolupracujúca inštitúcia: Univerzita Palackého v Olomouci, Lékařská fakulta, Ústav molekulární a translační medicíny, Česko - neformálna spolupráca. Zameranie: Testovanie cytotoxickej a antimikróbnej aktivity sacharidových derivátov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Univerzitná nemocnica Bratislava, Nemocnica Staré mesto, Gastroenterologická ambulancia - neformálna spolupráca. Zameranie: Diagnostika kolorektálneho karcinómu a odber vzoriek. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Univerzitná nemocnica Bratislava, Nemocnica Staré mesto, Urologická ambulancia - neformálna spolupráca. Zameranie: Diagnostika testikulárneho karcinómu a odber vzoriek. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Ústav přístrojové techniky Akademie věd ČR, Oddělení elektronové mikroskopie, Brno, Česko - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Ústav makromolekulové chemie Akademie věd ČR, Praha, Česko - neformálna spolupráca. Zameranie: Štúdium polysacharidových kompozitných filmov. Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Spolupracujúca inštitúcia: Vienna University of Technology, Institute of Applied Synthetic Chemistry, Vienna, Austria - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Spolupracujúca inštitúcia: Vysoká škola chemicko-technologická v Praze, Fakulta potravinářské a biochemické technologie, Ústav sacharidů a cereálií, Praha, Česko - neformálna spolupráca. Zameranie: Štruktúra a biologická aktivita rastlinných biopolymérov. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie.

Spolupracujúca inštitúcia: Vysoké učení technické v Brně, Fakulta chemická, Ústav chemie potravin a biotechnologií, Brno, Česko - neformálna spolupráca. Zameranie: a) mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z potravinárskych výrob/metódy biotypizácie mikroorganizmov; b) identifikácia kvasiniek molekulárno-biologickými metódami a hmotnostnou spektrometriou; c) monitoring pigmentotvorných a tukotvorných kvasiniek. Zhodnotenie: Výsledkom je vedenie 2 diplomových prác a 1 prezentácia na vedeckej konferencii.

Spolupracujúca inštitúcia: Wroclaw University of Science and Technology, Faculty of Chemistry, Department of Organic and Pharmaceutical Technology, Wroclaw, Poland - neformálna spolupráca. Zameranie: Štruktúra, biologická aktivita a vlastnosti fenolických glykokonjugátov z liečivých rastlín. Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie.

Spolupracujúca inštitúcia: Univerzita obrany v Brně, Fakulta vojenského zdravotnictví, Katedra molekulární patologie a biologie, Hradec Králové, Česko - neformálna spolupráca. Zameranie: Štruktúra rastlinných alergénov. Zhodnotenie: Výsledkom spolupráce je spoločná publikácia.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Izolácia neprístupných štruktúr acetylxylánu a enzýmy ich hydrolýzy (Isolation of recalcitrant acetylxylan structures and enzymes of their hydrolysis) (Zodpovedný riešiteľ: RNDr. Peter Biely, DrSc.)
Zadávateľ výskumného kontraktu: Novozymes A/S, Bagsvaerd, Denmark
Začiatok spolupráce: 2017
Ukončenie spolupráce: 2020
Finančný prínos pre organizáciu (€): 10000

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

Aplikant: Národný ústav detských chorôb, Detská klinika Lekárskej fakulty UK a Oddelenie laboratórnej medicíny NÚDCH, Centrum dedičných metabolických porúch, Bratislava. Aplikácia výsledku: Spoluúčasť NMR laboratória CHÚ SAV v cielenej diagnostike niektorých zriedkavých dedičných porúch metabolizmu pomocou NMR metabolomickej analýzy telových tekutín (moč, sérum, plazma) detských pacientov zo Slovenska. Výsledkom bola 1 spoločná publikácia a 2 prezentácie na vedeckých konferenciách. Ďalšia publikácia je v štádiu prípravy.

Aplikant: Alexander Kiss (včelár zo Šiah). Aplikácia výsledku: Výsledky analýz a porovnania antimikrobiálneho potenciálu materských kašičiek z vybraných včelstiev využíva chovateľ včelích matiek s vlastnou líniou včiel ako jeden z parametrov pri selekcii včelstiev vhodných na chov a produkciu včelích matiek.

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: 1) AH-Slovakia, s.r.o., Bratislava; finančný prínos: 445 €; 2) Welldrilling, s.r.o., Bratislava; finančný prínos: 356 €; 3) Spoľahni sa, s.r.o., Bernolákovo; finančný prínos: 178 €; 4) Ing. Moncoľ, Hviezdoslavov - firma; finančný prínos: 188 €; 5) súkromné osoby; finančný prínos: 936 €.

Poradenská činnosť v súvislosti s predanou licenciou na využívanie produkčného kmeňa a technológie na prípravu spórových inokúl huby *Trichoderma*, ktoré sú predmetom SK patentu č. 288023 (PP 5108-2008), v prevádzke Biozávod, Petrova Ves. Odberateľ: Azoter Trading, s.r.o., Bratislava.

Poradenská a expertízna činnosť v súvislosti s využívaním prístroja Iónová mobilita MS; separácia a identifikácia vzoriek organických látok. Odberateľ: MaSa Tech, s.r.o., Bratislava.

Testovanie softvéru Mass Frontier 9.0 k interpretácii fragmentácie organických zlúčenín a komplikovaných chromatografov. Testovanie softéru TreeRobot na získavanie HR hmotnostných spektier a budovanie databázy hmotnostných spektier. Odberateľ: HighChem, Ltd., Bratislava.

LC analýza vzoriek. Odberateľ: 1) Seederium s.r.o., Dunajská Streda; finančný prínos: 1050 €; 2) KSZ-Fortis spol. s.r.o., Dunajská Streda; finančný prínos: 910 €; 3) Slovak MAK s.r.o., Leopoldov; finančný prínos: 1260 €.

LC-MS analýza vzoriek. Odberateľ: 1) Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Bratislava; finančný prínos: 860 €; 2) Saneca Pharmaceuticals a.s. Hlohovec; finančný prínos: 2280 €.

LC-MS a NMR analýza vzoriek. Odberateľ: Prírodovedecká fakulta UK, Bratislava; finančný prínos: 4015 €.

Analýza vzoriek. Odberateľ: 1) Lemkowie, s.r.o., Bratislava; finančný prínos: 2498 €; 2) Particle, s.r.o., Lučenec; finančný prínos: 400 €.

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 315 €.

Stanovenie elementárneho zloženia (CHN), NMR, MS analýza vzoriek. Odberateľ: Ústav polymérov SAV, Bratislava; finančný prínos: 6984 €.

Analýza a adjustácia ochucovacích roztokov do rybacích výrobkov a s tým súvisiaca poradenská činnosť. Odberateľ: PRETO Ryba, s.r.o., Žilina.

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.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen
Ing. Zdenka Hromádková, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen
RNDr. Jaroslav Klaudiny, PhD.	Komisia pre biologickú bezpečnosť a jej zbor expertov pri Ministerstve životného prostredia SR	člen zboru expertov
Ing. Vladimír Mastihuba, PhD.	Atestačná komisia Slovenskej technickej univerzity v Bratislave	člen
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v Národnom projekte "Sektorovo riadenými inováciami (SRI) k efektívnemu trhu práce v	člen

	Slovenskej republike" pre MPSVR SR	
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Ema Paulovičová, CSc.	Pracovná skupina expertov pre alternatívne metódy (hodnotenie toxicity, účinkov a bezpečnosti látok vo vede, výskume, priemysle a edukácii) pri Ministerstve pôdohospodárstva a rozvoja vidieka SR	člen
doc. Ing. Ladislav Petruš, DrSc.	Porota pre udeľovanie Cien Literárneho fondu za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	člen
Ing. Renáta Vadkertiová, PhD.	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen

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

Názov expertízy: Nové genómové techniky
Adresát expertízy: Ministerstvo životného prostredia SR, Odbor environmentálnych rizík a biologickej bezpečnosti
Spracoval: RNDr. Jaroslav Klaudiny, PhD.
Stručný opis: Vyplnenie dotazníka pre štúdiu Európskej komisie týkajúcu sa nových genómových techník

Názov expertízy: Konzultácie
Adresát expertízy: Ústredný krízový štáb vlády SR
Spracoval: RNDr. Ján Mucha, CSc.
Stručný opis: Konzultácie s členom Ústredného krízového štábu Dr. Robertom Mistríkom. Poskytnutie informácií o súčasnej prístrojovej technike a metodikách RNA testovania, ktoré sa aplikujú v modernej diagnostike vírusových ochorení.

Názov expertízy: Konzultácie a expertíza
Adresát expertízy: Regionálny úrad verejného zdravotníctva Bratislava
Spracoval: Mgr. Mária Šedivá, PhD.
Stručný opis: Konzultácie a výpomoc pri spracovaní a analýzach vzoriek odobratých pacientom a pri optimalizácii protokolov spojených s analýzou vzoriek metódou Digital Droplet PCR, ako aj v posudzovaní možnej náhrady reakčných komponentov v PCR nakupovaných zo zahraničia takými, ktoré by pochádzali od slovenských dodávateľov.

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

V súvislosti s pandémiou COVID-19 ústav zapožičal Regionálnemu úradu verejného zdravotníctva v Banskej Bystrici prístroj Real-Time PCR potrebný na analýzu testovaných vzoriek.

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	0	tlač	8	TV	1
rozhlas	3	internet	21	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
47. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice, SR	12.05.-15.05.2020	Zrušené
8. medzinárodné sympózium o štruktúre a funkcii koreňov	medzinárodná	Grand Hotel Bellevue, Horný Smokovec, SR	06.09.-09.09.2020	Zrušené
Chémia smerom k biológii 10 (CTB10)/INSTRUCT-ULTRA	medzinárodná	Bratislava, SR	08.11.-12.11.2020	Zrušené
15. Bratislavské sympózium o sacharidoch	medzinárodná	Kongresové centrum SAV, Smolenice, SR	16.11.-20.11.2020	Zrušené

9.3. Účasť na výstavách

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9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Farkaš Pavol	0	1	0
Katrlík Jaroslav	1	0	0
Mastihuba Vladimír	1	0	0
Tkáč Ján	1	0	0
Spolu	3	1	0

9.5. Členstvo v redakčných radách časopisov

Mgr. Peter Baráth, PhD.

Newslab (funkcia: člen)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

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. Miroslav Kóóš, DrSc.

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

Mgr. Stanislav Kozmon, PhD.

Chemical Papers (funkcia: Associate Editor)

Ing. Jozef Nahálka, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

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

Ing. Ján Tkáč, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)
Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Igor Tvaroška, DrSc.

Frontiers in Plant Science: Plant Biophysics and Modeling (funkcia: Review Editor)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Marek Baráth, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Maroš Bella, 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)

Ing. Pavol Farkaš, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

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. Jana Jakubčinová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Karnišová Potocká, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: podpredseda a tajomník Fyziologickej sekcie)

Ing. Miroslav Koóš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján Kozák, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Stanislav Kozmon, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Mgr. Eva Labancová

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Lenka Lorencová, PhD.

Slovenská elektrochemická spoločnosť (funkcia: člen)
Slovenská chemická spoločnosť pri SAV (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť pri SAV (funkcia: čestný 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)

Ing. Ema Paulovičová, CSc.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)
Slovenská spoločnosť alergológie a klinickej imunológie pri SLS (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. Veronika Pinková Gajdošová

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Vlasta Sasinková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Kristína Šípošová

Slovenská botanická 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)

Mgr. Zuzana Vivodová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

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

Chemický ústav SAV v spolupráci so spoločnosťami Labo – SK, s.r.o. a Bio-Rad Laboratories, Inc. zorganizoval (22.7.2020) jednodenný seminár o špeciálnej laboratórnej technike "Droplet Digital Polymerase Chain Reaction" (ddPCR) spojený s prezentáciou prístroja QX200 Droplet Digital PCR System a demo cvičením, ktoré viedol špecialista zo spoločnosti Bio-Rad Laboratories Dr. Petar Podlesiy. Diagnostika pomocou metódy ddPCR je nielen výrazne citlivejšia ako qPCR, ale je aj spoľahlivejšia pri monitorovaní stavu ochorenia COVID-19. V súčasnosti sa preferuje v detekcii prítomnosti SARS-CoV-2 v odpadových vodách a aerosóle, čo je veľmi aktuálnou témou štátnych laboratórií, ktoré monitorujú životné prostredie (napr. ÚVZ SR, VÚVH). Podujatia sa zúčastnilo spolu 33 pracovníkov z akademických ústavov a fakúlt (LF UK, Bratislava; Jesseniova LF UK, Martin), Regionálneho úradu verejného zdravotníctva hl. m. SR Bratislava (RÚVZ SR) a Výskumného ústavu vodného hospodárstva (VÚVH, Bratislava).

Dr. Pätoprstý zabezpečoval exkurziu študentov a pedagógov Katedry analytickej chémie Prírodovedeckej fakulty UK (2. ročník Bc. štúdia odbor Chémia a Biochémia, 19 študentov a 2 pedagógovia), v rámci ktorej bola prezentovaná infraštruktúra a analytické metódy dostupné na Chemickom ústave SAV.

Ústav sa pravidelne zúčastňuje na medzinárodnej poľnohospodárskej a potravinárskej výstave AGROKOMPLEX a taktiež zabezpečuje vedecký stánok na Festivale vedy - Európskej noci výskumníkov na Slovensku. V dôsledku pandémie Covid-19 sa však tieto podujatia v roku 2020 nekonali.

V dôsledku pandémie COVID-19, Chemický ústav SAV neusporiadal v roku 2020 Deň otvorených dverí CHÚ SAV v rámci Týždňa vedy a techniky na Slovensku 2020 (TVT 2020).

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25397
z toho	knihy a zviazané periodiká	25397
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		4
z toho zahraničné periodiká		3
Ročný prírastok knižničných jednotiek		0
v tom	kúpou	0
	darom	0
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		0

Výraz „v tom“ označuje úplné údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.
Výraz „z toho“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		15
v tom z r. 1	prezenčné výpožičky	10
	absenčné výpožičky	5
v tom z r. 1	odborná literatúra pre dospelých	6
	výpožičky periodík	9
MVS iným knižniciam		3
MVS z iných knižníc		1
MMVS iným knižniciam		0
MMVS z iných knižníc		0
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 €	0

10.5. Iné informácie o knižničnej činnosti

Pracovníčka knižnice (v súčasnosti len 1) zabezpečovala okrem iného rozmnožovacie práce na xeroxe, rešerše z literatúry, objednávky kníh a asistovala pri vkladaní publikačných výstupov a citačných ohlasov pracoviska do systému ARL.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

– – –

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

– – –

11.3. Členstvo vo vedeckých kolégiách SAV

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (predseda)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Koóš, DrSc.

- VK SAV pre chemické vedy (člen)

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 Kóš, DrSc.

- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)
- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)
- Kontrolná rada areálu SAV (člen)

Mgr. Stanislav Kozmon, PhD.

- Rada SAV pre program Otvorená akadémia (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Komisia SAV pre životné prostredie (podpredseda)

Ing. Ján Tkáč, DrSc.

- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)

11.5. Členstvo v orgánoch VEGA

Ing. Marek Bučko, PhD.

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

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)

Mgr. Stanislav Kozmon, PhD.

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

Ing. Vladimír Mastihuba, PhD.

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

Ing. Mária Mastihubová, PhD.

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

doc. Ing. Ladislav Petruš, DrSc.

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

Ing. Renáta Vadkertiová, PhD.

- Komisia VEGA č. 4 pre biologické vedy (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2020 v €)

Typ organizácie (RO, PO)		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	4270229	3110303	615640	544286	72,83
z toho: mzdy (610)	2168869	1814507	212906	141456	83,66
vedecká výchova štipendiá (640)	164096	164096	0	0	100
poistné a príspevok do poisťovní (620)	766982	620826	80944	65212	80,94
tovary a služby (630)	1100040	510874	251548	337618	46,44
transfery partnerom projektov (640)	70242	0	70242	0	0
2. Kapitálové výdavky	177561	0	148055	29506	0
z toho: obstarávanie kapitálových aktív	177561	0	148055	29506	0
kapitálové transfery	0	0	0	0	0

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2020 v €)

Typ organizácie (RO, PO)		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	3110303	0	1814507	620826	0
z toho: VEGA	198521	0	0	0	0
MVTS výskumné projekty	62326	0	0	0	0
MVTS podpora	42140	0	0	0	0
SASPRO/MOREPRO	0	0	0	0	0
Vydávanie časopisov	29862	0	0	0	0
Vedecká výchova	164096	0	0	0	0

(štipendiá)					
OTAS (630)	178023	0	0	0	0
2. ŠF EÚ vr. fin. zo ŠR	140538	0	93935	30683	0
3. medzinárodné grantové projekty	185612	0	73677	33421	0
z toho: H2020	151599	0	61977	26637	0
4. iné štátne a verejné zdroje (spolu)	771213	148055	118971	50261	70242
z toho: APVV	340779	0	85826	30417	48062
podpora z kapitoly MŠVVaŠ SR (stimuly)	0	0	0	0	0
5. ostatné zdroje	240569	29506	67779	31790	0
z toho: príjmy z prenájmu	0	0	0	0	0
príjmy z podnikateľskej činnosti	0	0	0	0	0
príjmy z expertnej činnosti a služieb	240569	29506	67779	31790	0

13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2020 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 3800 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 350 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2020: 44 (4 pre CHÚ SAV, 15 pre iné organizácie a 25 pre zahraničie). Získané kultúry v roku 2020: 69 (34 samostatne izolovaných a 35 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 1182 € a úspora predstavovala 2190 € (120 € za kmene pre CHÚ, 1020 € za izolované kmene a 1050 € za kmene získané z iných slovenských 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 sa od roku 2013 pohyboval nad hodnotou 1 (IF2013 = 1.193; IF2014 = 1.468; IF2015 = 1.326; IF2016 = 1.258). V roku 2017 mierne poklesol (IF2017 = 0.973) v dôsledku predchádzajúcej zmeny vydavateľa. V roku 2018 však opätovne vzrástol (IF2018 = 1.246). Rastúci trend pokračoval aj v ďalšom roku (IF2019 = 1.680) a je predpoklad, že hodnota IF2020 bude ešte vyššia. 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). V období rokov 2015-2016 bol vydavateľom a distribútorom De Gruyter Open Ltd. Od roku 2017 je vydavateľom a distribútorom Springer-Verlag GmbH, 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. Tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2020 sumu 148186 €. Pokles (o ca 50000 €) oproti vlaňajšku bol spôsobený pandémiou COVID-19.

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 22986 €. Príjmy za rozbory vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely (analyzovaných bolo 42 vzoriek), predstavovali sumu 2233 € pre mimoakademických zákazníkov a prínos pre pracovníkov ústavu vo výške 2103 €.

Nakoľko Chemický ústav SAV disponuje modernou prístrojovou technikou a výskumnými kapacitami, zapojil sa aj do výskumu a boja s koronavírusom (SARS-CoV-2). Dokumentujú to nasledovné aktivity: a) na Regionálnom úrade verejného zdravotníctva Bratislava vypomáhala vedecká pracovníčka ústavu Mgr. Mária Šedivá, PhD. pri spracovaní a analýzach vzoriek odobratých pacientom a pri optimalizácii protokolov spojených s analýzou vzoriek metódou Digital Droplet PCR, ako aj v posudzovaní možnej náhrady reakčných komponentov v PCR nakupovaných zo zahraničia takými, ktoré by pochádzali od slovenských dodávateľov; b) Regionálnemu úradu verejného zdravotníctva v Banskej Bystrici ústav zapožičal prístrojovú techniku (Real-Time PCR) potrebnú na analýzu testovaných vzoriek; neskôr si tento prístroj zapožičal RÚVZ Bratislava; c) ústav poskytol laboratórne priestory a potrebné sterilné prostredie (laminárny box) na alikvotovanie denaturačného roztoku vírusových častíc spoločnosti LABO-SK, s r. o., ktorá tieto roztoky dodáva na celé Slovensko; d) ústav poskytol priestory a potrebnú infraštruktúru aj zamestnancom spoločnosti MultiplexDX, spol. s r. o., pre downstream procesy po syntéze primerov a prób pre RT-qPCR diagnostický test na SARS-CoV-2; e) kolektív pracovníkov Centra excelentnosti pre glykomiku Chemického ústavu SAV sa zapojil do výskumu zameraného na koronavírus SARS-CoV-2, pričom uplatnením spektrálnej analýzy rieši štruktúru N-glykánov SPIKE-1 glykoproteínu a jeho rozpoznanie pomocou novej analytickej platformy imobilizovaných lektínov; f) v rámci konzultácií s členom Ústredného krízového štábu vlády SR Dr. Robertom Mistríkom poskytol vedecký pracovník ústavu RNDr. Ján Mucha, CSc., cenné rady a informácie o súčasnej prístrojovej technike a metodikách RNA testovania, ktoré sa aplikujú v modernej diagnostike vírusových ochorení.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2020

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Farkaš Vladimír
Ocenenie významných publikácií
Oceňovateľ: Predsedníctvo SAV

Opis: Za publikáciu "Mechanisms of redundancy and specificity of the Aspergillus fumigatus Crh transglycosylases" uverejnenú v Nature Communications.

Hirsch Ján
Významná osobnosť SAV
Oceňovateľ: Predsedníctvo SAV
Opis: Za prínos ku kreditu SAV.

Katrlík Jaroslav
Cena Slovenskej akadémie vied za výsledky medzinárodnej vedeckotechnickej spolupráce za rok 2019
Oceňovateľ: Vedecká rada Slovenskej akadémie vied
Opis: Cena udelená kolektívu Ing. Jaroslava Katrlíka, PhD. v zložení: Ing. Peter Baráth, PhD., Ing. Marek Nemčovič, PhD., Mgr. Martina Križáková, PhD., Ing. Zuzana Pakanová, PhD., Ing. Lucia Pažitná, Ing. Kristína Kianičková a MSc. Paras Kundalia za vedeckovýskumnú prácu "Analýza glykoforiem proteínov ako potenciálnych biomarkerov pre medicínu a diagnostiku biomarkerov".

Lorencová Lenka
Cena za 1. miesto v súťaži mladých vedeckých pracovníkov SAV
Oceňovateľ: Predsedníctvo SAV
Opis: 1. miesto v suťaži mladých vedeckých pracovníkov SAV.

Petruš Ladislav
Významná osobnosť SAV
Oceňovateľ: Predsedníctvo SAV
Opis: Za prínos ku kreditu SAV.

Tkáč Ján
Ocenenie významných publikácií
Oceňovateľ: Predsedníctvo SAV
Opis: Za publikáciu "Polyzwitterionic hydrogels in engines based on the antipolyelectrolyte effect and driven by the salinity gradient" uverejnenú v Environmental Science & Technology.

15.1.2. Iné domáce ocenenia

Bertók Tomáš
Finalista súťaže ESET Science Award v sekcii Výnimočný mladý vedec do 35 rokov
Oceňovateľ: Nadácia ESET
Opis: Finalista (prvých 5) súťaže ESET Science Award v sekcii Výnimočný mladý vedec do 35 rok za rok 2020.

Farkaš Vladimír
Cena Jána Bahýľa
Oceňovateľ: Úrad priemyselného vlastníctva SR
Opis: Za mimoriadne technické alebo dizajnérske riešenia v kategórii "Vysoké školy a výskumné centrá". Za patent P288023 "Kmene mikroorganizmov Trichoderma atroviride a Trichoderma harzanium a prostriedok na ochranu rastlín, ktorý ich obsahuje" (majiteľ: Chemický ústav SAV; pôvodca: doc. Ing. Vladimír Farkaš, DrSc., Ing. Marek Nemčovič, PhD., Ing. Lucia Jakubíková, PhD., RNDr. Valéria Šubíková, CSc., Ing. Anton Janitor, PhD., Ing. Andrej Kunca, PhD., Ing. Roman Leontovyč, PhD.). V praxi vynález realizuje slovenská spoločnosť AZOTER Trading, s. r. o.

Kalník Martin
Diplom pri príležitosti XII. Interaktívnej konferencie mladých vedcov 2020
Oceňovateľ: Občianske združenie PREVEDA
Opis: Za vynikajúci príspevok v sekcii Organická, bioorganická a farmaceutická chémia, farmakológia.

Kianičková Kristína
Diplom pri príležitosti XII. Interaktívnej konferencie mladých vedcov 2020
Oceňovateľ: Občianske združenie PREVEDA
Opis: Za vynikajúci príspevok v sekcii Využitie inštrumentálnych metód v analýze biologicky významných látok.

Květoň Filip
Cena rektora STU
Oceňovateľ: Rektor Slovenskej technickej univerzity v Bratislave
Opis: Za vynikajúce plnenie študijných povinností počas celého štúdia doktorandského študijného programu biotechnológia.

Pinková Gajdošová Veronika
Cena dekana PriF UK pre študentov doktorandského štúdia za rok 2020 v kategórii Biologické vedy
Oceňovateľ: Dekan Prírodovedeckej fakulty Univerzity Komenského v Bratislave
Opis: Za vynikajúce publikované vedecké výsledky, ktoré výrazne prispievajú k budovaniu prestížneho renomé doktorandského štúdia na Prírodovedeckej fakulte Univerzity Komenského v Bratislave.

15.2. Medzinárodné ocenenia

Bertók Tomáš
Top downloaded paper 2018-2019
Oceňovateľ: Wiley
Opis: Za prácu publikovanú v ChemElectroChem, ktorá patrila medzi 10% najsťahovanejších v rokoch 2018-2019. (spoluautori: RNDr. Lenka Lorencová, PhD., Mgr. Erika Chocholová, RNDr. Eduard Jáné, PhD., Ing. Alica Vikartovská, PhD., Ing. Ján Tkáč, DrSc.).

Tkáč Ján
Top downloaded paper 2018-2019
Oceňovateľ: Wiley
Opis: Za prácu publikovanú v Electroanalysis, ktorá patrila medzi 10% najsťahovanejších v rokoch 2018-2019. (spoluautori: RNDr. Lenka Lorencová, PhD., RNDr. Veronika Gajdošová, Ing. Štefánia Hrončeková, Ing. Tomáš Bertók, PhD., Mgr. Jana Blahutová, PhD., Ing. Alica Vikartovská, PhD.).

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. Pripravuje sa aktualizovaná brožúra, ktorá bude obsahovať údaje za ďalšie 5-ročné obdobie.

17. Problémy a podnety pre činnosť SAV

a) Zabezpečovanie a prideľovanie finančných prostriedkov zo ŠR

Podľa dostupných informácií sa na ďalšom financovaní prístupu do vedeckých databáz majú okrem CVTI SR podieľať aj univerzity, vysoké školy a SAV. Apelujeme na P SAV, aby situáciu ohľadne zabezpečenia financovania prístupu do databáz považovalo za jednu z priorít a nedopustilo, aby v budúcnosti došlo k prerušeniu prístupu do nich. Nedávne zrušenie prístupu do databáz SciFinder a Reaxys výrazne obmedzuje včasné získavanie relevantných informácií najmä početnej skupine organických chemikov ale aj biochemikov a biotechnológov.

Apelujeme na P SAV, aby neznižovalo príspevok na vydávanie kvalitných vedeckých časopisov (periodík).

Oceňujeme rozhodnutie P SAV, že v r. 2020 neznížilo finančné prostriedky na granty akademickej agentúry VEGA a že sa podieľalo na stabilizácii financovania projektov Verejnej výzvy APVV.

Apelujeme na P SAV, aby v súčinnosti s univerzitami a výskumnými inštitúciami požadovali od Výskumnej agentúry a relevantných ministerstiev plnenie prísľubov na radikálne zlepšenie situácie vo vypisovaní výziev a následnom spravovaní agendy týkajúcej sa ŠF EÚ (najmä urýchlenie celého procesu od vypísania výzvy, cez hodnotenie, podpísanie zmluvy až po realizáciu ŽOP-iek, odbyrokratizovanie, ...).

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 z iných zdrojov neumožnil v roku 2020 výraznejšiu obnovu prístrojového vybavenia v Realizačnom oddelení a v Zbierke kultúr kvasiniek. Zbierka nevyhnutne potrebuje obnoviť a dokúpiť základné prístrojové vybavenie, zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie (väčšina pochádza z roku 1963) a uzatvoriť priestory, v ktorých sa Zbierka nachádza, aby mohla splniť štandardy, ktoré pre zbierky mikroorganizmov vyžaduje OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO). Najvyššiu prioritu má zakúpenie autoklávov, nakoľko doteraz používané autoklávy (zakúpené v roku 1986), sú poruchové a veľmi problematická je už aj dostupnosť náhradných súčiastok. Vysokú prioritu má aj zakúpenie hlbokomraziaceho boxu (–80 °C), ktorý by sa využíval na úschovu kvasiniek. Úschova kvasiniek v hlbokomraziacom boxe by bola, po úschove kvasiniek v kvapalnom dusíku, ktorá sa v Zbierke kvasiniek používa už niekoľko rokov, ďalšou spoľahlivou a odporúčanou metódou pre dlhodobú úschovu mikroorganizmov, v zmysle Príručky OECD (OECD Best Practice Guidelines for Biological Resource Centres, 2007). Finančné zdroje by sa dali získať vstupom Slovenska do konzorcia MIRRI-ERIC (v rámci ESFRI Roadmap) a taktiež úspešnosťou v ďalších výzvach OP ŠFEÚ.

c) Iné podnety a informácie

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

Opätovne upozorňujeme na niektoré nedostatky v Osnove Správy o činnosti organizácie, konkrétne z tabuľky 1d nie je jasné, či sa jedná o priemerný vek zamestnancov bez zohľadnenia úväzkov zamestnancov alebo o priemerný vek so zohľadnením úväzkov zamestnancov -

požadujeme, aby sa do Osnovy namiesto tejto tabuľky aplikovala tabuľka z osnovy pre správu o činnosti za rok 2018, kde sa uvedené špecifikácie zohľadňovali (formou kolóniek A a B). Apelujeme na P SAV, aby zmeny v Osnove Správy o činnosti organizácie schvaľovalo už začiatkom roka, aby Výpočtové stredisko CSČ SAV malo dostatok času príslušné zmeny zapracovať do databázy ELVYS, pretože zmeny vykonávané v Osnove (a v databáze ELVYS) až koncom roka značne komplikujú vypracovanie Správy o činnosti organizácie. Je potrebné si uvedomiť, že pracoviská vkladajú údaje do databázy ELVYS v priebehu celého roka (nie iba na konci roka) a neskoršie zmeny v Osnove majú za následok, že niektoré údaje vložené do databázy ELVYS skôr ako došlo k úpravám Osnovy musia byť v nej následne upravované alebo do nej prácne nanovo vkladané.

Oceňujeme, že vzhľadom k havarijnému stavu zdravotechniky (vodoinštalácia, kanalizácia, vzduchotechnika) v celej budove, P SAV vyčlenilo finančné prostriedky na jej komplexnú rekonštrukciu, s ktorou sa začalo v roku 2019 (dokončila sa rekonštrukcia rozvodov vody v celej budove a začali sa práce na rekonštrukcii kanalizácie v bloku A a C a na vonkajšom kanalizačnom páse pred budovou) a ukončila sa v roku 2020 (dokončenie rekonštrucie kanalizácie).

Správu o činnosti organizácie SAV spracoval(i):

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

Schválila vedecká rada Chemického ústavu SAV dňa 27.1.2021

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
Ing. Miroslav Kóš, DrSc.	Ing. Vladimír Mastihuba, PhD.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2020

Zoznam zamestnancov podľa štruktúry

	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.	5	0.05
3.	doc. Ing. Vladimír Farkaš, DrSc.	5	0.05
4.	Ing. Peter Gemeiner, DrSc.	5	0.05
5.	Ing. Ján Hirsch, DrSc.	5	0.05
6.	Ing. Miroslav Kóš, DrSc.	100	1.00
7.	RNDr. Mária Matulová, DrSc.	80	0.80
8.	doc. Ing. Ladislav Petruš, DrSc.	50	0.50
9.	Ing. Ivan Šimkovic, DrSc.	60	0.60
10.	Ing. Ján Tkáč, DrSc.	150	1.40
11.	Ing. Igor Tvaroška, DrSc.	5	0.05
Samostatní vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Mgr. Peter Baráth, PhD.	50	0.83
3.	Ing. Maroš Bella, PhD.	100	1.00
4.	Ing. Tomáš Bertók, PhD.	150	1.43
5.	Mgr. Jana Blahutová, PhD.	150	1.17
6.	Ing. Marek Bučko, PhD.	100	1.00
7.	Mgr. Peter Capek, PhD.	50	0.50
8.	Ing. Alžbeta Čížová, PhD.	100	1.00
9.	Mgr. Maksym Danchenko, PhD.	50	0.17
10.	Ing. Pavol Farkaš, PhD.	100	1.00
11.	RNDr. Alena Holazová, PhD.	100	0.00
12.	Ing. Eva Hrabárová, PhD.	100	1.00
13.	Ing. Miloš Hricovíni, PhD.	100	1.00
14.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
15.	Ing. Zdenka Hromádková, PhD.	100	1.00
16.	Ing. Jaroslav Katrlík, PhD.	150	1.17

17.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
18.	RNDr. Karin Kollárová, PhD.	100	1.00
19.	Mgr. Juraj Kóňa, PhD.	100	1.00
20.	Ing. Zuzana Košťálová, PhD.	100	1.00
21.	Mgr. Stanislav Kozmon, PhD.	100	1.00
22.	Ing. Ľubomír Kremnický, PhD.	100	1.00
23.	RNDr. Lenka Lorencová, PhD.	150	1.37
24.	prof. RNDr. Alexander Lux, CSc.	5	0.05
25.	Ing. Vladimír Mastihuba, PhD.	100	1.00
26.	Ing. Mária Mastihubová, PhD.	100	1.00
27.	Ing. Júlia Mičová, PhD.	100	1.00
28.	RNDr. Ján Mucha, CSc.	150	1.03
29.	Ing. Jozef Nahálka, PhD.	100	1.00
30.	Ing. Marek Nemčovič, PhD.	150	1.17
31.	Ing. Ema Paulovičová, CSc.	100	1.00
32.	Ing. Lucia Paulovičová, PhD.	100	0.40
33.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
34.	Ing. Monika Poláková, PhD.	100	1.00
35.	Mgr. Vladimír Puchart, PhD.	100	1.00
36.	Ing. Hana Schusterová, PhD.	100	1.00
37.	Ing. Vladimír Sládek, PhD.	100	1.00
38.	Ing. Eva Stratilová, PhD.	150	1.17
39.	Ing. Sergej Šesták, PhD.	150	1.17
40.	Ing. Michal Šoral, PhD.	100	0.08
41.	Ing. Katarína Šuchová, PhD.	100	1.00
42.	Ing. Renáta Vadkertiová, PhD.	100	0.18
43.	Ing. Alica Vikartovská, PhD.	100	1.00
44.	Mgr. Zuzana Vivodová, PhD.	100	0.42
Vedeckí pracovníci			
1.	Mgr. Gábor Beke, PhD.	50	0.33
2.	RNDr. Jana Bellová, PhD.	100	0.31
3.	RNDr. Anikó Bertóková, PhD.	100	1.00
4.	RNDr. Sandra Bieliková, PhD.	100	1.00
5.	Mgr. Viera Dujnič, PhD.	100	1.00
6.	Ing. Soňa Garajová, PhD.	100	0.00

7.	Ing. Michal Híreš, PhD.	130	1.23
8.	Ing. Michal Hricovíni, PhD.	100	1.00
9.	Ing. Andrej Chyba, PhD.	100	1.00
10.	Mgr. Jana Jakubčinová, PhD.	100	0.36
11.	RNDr. Eduard Jáné, PhD.	100	1.00
12.	Mgr. Elena Karnišová Potocká, PhD.	100	1.00
13.	Ing. Peter Kis, PhD.	100	1.00
14.	Mgr. Tomáš Klunda, PhD.	100	1.00
15.	Mgr. Lenka Kohútová, PhD.	100	0.38
16.	RNDr. Ján Kozák, PhD.	100	1.00
17.	Ing. Tomáš Krajčovič, PhD.	100	1.00
18.	Mgr. Martina Križáková, PhD.	100	0.00
19.	Mgr. Danica Kučerová, PhD.	100	1.00
20.	Ing. Filip Květoň, PhD.	100	0.40
21.	Mgr. Jana Mečárová, PhD.	100	1.00
22.	Ing. Zuzana Pakanová, PhD.	150	1.17
23.	RNDr. Klaudia Palenčárová, PhD.	100	0.00
24.	MVDr. Jana Pipiková, PhD.	100	1.00
25.	prof. Ing. Milan Polakovič, PhD.	40	0.37
26.	Ing. Božena Pribulová, PhD.	100	1.00
27.	Ing. Andrea Schenkmayerová, PhD.	100	0.00
28.	Mgr. Mária Šedivá, PhD.	150	1.17
29.	Ing. Kristína Vadinová, PhD.	100	0.00
30.	RNDr. Jana Ziburová, PhD.	100	0.21
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Juvissan Medalith Aguedo Ariza	100	1.00
2.	Ing. Viera Bedrichová	100	1.00
3.	Ing. Matej Cvečko	5	0.01
4.	Ing. Erika Farkašová	100	1.00
5.	Ing. Peter Haluz	5	0.01
6.	Mgr. Ágnes Horváthová	20	0.20
7.	Mgr. Ľuboš Hudák	100	1.00
8.	Ing. Kristína Kianičková	5	0.02
9.	Ing. Mária Kopáčová	100	1.00
10.	Ing. Hana Kováčová	100	1.00

11.	MSc. Paras Harendra Kundalia	100	1.00
12.	Mgr. Eva Labancová	20	0.20
13.	Mgr. Maroš Laho	100	0.87
14.	Ing. Peter Magdolen	100	1.00
15.	Ing. Filip Pančík	50	0.50
16.	Ing. Lucia Pažitná	5	0.02
17.	RNDr. Veronika Pinková Gajdošová	10	0.04
18.	RNDr. Vlasta Sasinková	40	0.40
19.	Mgr. Barbara Siváková	20	0.20
20.	Mgr. Barbora Stratilová	20	0.20
21.	Mgr. Kristína Šípošová	20	0.20
22.	Ing. Jozef Švec	50	0.50
23.	Ing. Jozef Turjan	100	1.00
24.	RNDr. Iveta Uhliariková	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Bc. Katarína Koňušiaková	100	0.25
3.	Bc. Ondrej Penzeš	60	0.55
4.	Ing. Ema Podobová	100	1.00
5.	Bc. Jaroslav Valášik	100	1.00
6.	Mgr. Jana Žabková	100	1.00
Odborní pracovníci ÚSV			
1.	Mária Bednáriková	100	1.00
2.	Veronika Bencová	100	1.00
3.	Alena Bordáčová	100	1.00
4.	Eva Filipková	100	1.00
5.	Ľudmila Gažíková	100	1.00
6.	Dominik Gúth	100	1.00
7.	Jana Guthová	100	1.00
8.	Beáta Chválová	100	1.00
9.	Beáta Kalivodová	100	1.00
10.	Janka Komačková	100	1.00
11.	Eva Morháčová	100	1.00
12.	Milan Novosad	100	1.00
13.	Margita Plšková	150	1.17

14.	Kvetoslava Sabová	100	1.00
15.	Zdena Smolková	100	1.00
16.	Radoslava Šályová	100	1.17
17.	Alena Šoltésová	100	1.00
18.	Oľga Švančarová	100	1.00
19.	Vojtech Tóth	100	1.00
20.	Matej Vaš	100	1.00
21.	Mariana Vlčeková	100	1.00
22.	Erika Voleková	100	1.00
23.	Scarlett Weinzettlová	100	1.00
Ostatní pracovníci			
1.	Ladislav Baláži	100	1.00
2.	Peter Cagáň	100	0.55
3.	Anna Fehérová	100	1.00
4.	Juraj Kozmon	100	0.33
5.	Marcela Kozmonová	100	0.08
6.	Helena Lešťanská	100	1.00
7.	Elena Masarovičová	100	1.00
8.	Miroslav Pír	100	1.00
9.	Ing. Viliam Podoba	100	0.73
10.	Peter Simandl	100	0.75
11.	František Špetko	80	0.80
12.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Samostatní vedeckí pracovníci			
1.	RNDr. Desana Lišková, PhD.	1.1.2020	0.00
Vedeckí pracovníci			
1.	RNDr. Lucia Demovičová, PhD.	30.9.2020	0.10
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Katarína Čangelová	30.9.2020	0.75
2.	Ing. Justyna Płoska	30.9.2020	0.75
Odborní pracovníci ÚSV			
1.	Alžbeta Kanská	1.1.2020	0.00

2.	Ľudovít Kompaník	13.11.2020	0.43
3.	Nadežda Orthová	28.8.2020	0.58
4.	Dana Žišková	31.5.2020	0.42
Ostatní pracovníci			
1.	Dušan Križan	31.3.2020	0.25

Zoznam doktorandov

	Meno s titulmi	**Škola/fakulta**	**Študijný odbor/program**
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Martina Belková	Prírodovedecká fakulta UK	chémia/biochémia
2.	Ing. Anna Blšáková	Fakulta chemickej a potravinárskej technológie STU	chémia/biochémia
3.	Ing. Matej Cvečko	Fakulta chemickej a potravinárskej technológie STU	chémia/organická chémia
4.	Mgr. Diana Hačkuličová	Prírodovedecká fakulta UK	biológia/fyziológia rastlín
5.	RNDr. Marietta Hakarová	Prírodovedecká fakulta UK	biotechnológie/biotechnológia
6.	Ing. Peter Haluz	Fakulta chemickej a potravinárskej technológie STU	chémia/biochémia
7.	Mgr. Ágnes Horváthová	Prírodovedecká fakulta UK	chémia/biochémia
8.	Ing. Štefánia Hrončeková	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
9.	Mgr. Erika Chocholová	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
10.	Ing. Martin Kalník	Fakulta chemickej a potravinárskej technológie STU	chémia/organická chémia
11.	Ing. Kristína Kianičková	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
12.	Ing. Romana Köszagová	Prírodovedecká fakulta UK	chémia/biochémia
13.	Ing. Filip Pančík	Prírodovedecká fakulta UK	chémia/fyzikálna chémia
14.	Ing. Lucia Pažitná	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
15.	RNDr. Veronika Pinková Gajdošová	Prírodovedecká fakulta UK	biotechnológie/biotechnológia
16.	Mgr. Barbara Siváková	Prírodovedecká fakulta UK	chémia/biochémia
17.	Mgr. Barbora Stratilová	Prírodovedecká fakulta UK	chémia/fyzikálna chémia
18.	Ing. Natália Švecová	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
Interní doktorandi hradení z iných zdrojov			
1.	MSc. Juvissan Medalith Aguedo Ariza	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
2.	MSc. Paras Harendra Kundalia	Fakulta chemickej a potravinárskej technológie STU	biotechnológie/biotechnológia
Externí doktorandi			
1.	Ing. Mária Kopáčová	Prírodovedecká fakulta UK	chémia/analytická chémia
2.	RNDr. Iveta Uhliariková	Prírodovedecká fakulta UK	chémia/analytická chémia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Mgr. Jana Jakubčinová, PhD.	21.8.2020	22.8.2020	100
2.	Ing. Filip Květoň, PhD.	27.8.2020	28.8.2020	100

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	–

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziústavná dohoda

1.) Izolácia neprístupných štruktúr acetylxylánu a enzýmy ich hydrolýzy *(Isolation of recalcitrant acetylxylan structures and enzymes of their hydrolysis)*

Zodpovedný riešiteľ:	Peter Biely
Trvanie projektu:	22.12.2017 / 22.12.2020
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Programy: Medzivládna dohoda

2.) Analýza glykoforiem transferínu ako potencionálych účinných biomarkerov pre medicínu *(Analysis of transferrin glycoforms as potentially strong biomarkers in medicine)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	15.2.2019 / 31.12.2020
Evidenčné číslo projektu:	SK-SRB-18-0028
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Srbsko: 1
Čerpané financie:	-

Dosiahnuté výsledky:
Pokračoval výskum v oblasti glykoprofilovania transferínu a ďalších glykoproteínov ako potencionálych účinných biomarkerov pre medicínu v súvislosti s niektorými ochoreniami (rakovina, tehotenská cukrovka) pomocou lektínového microarray a MS techník. Pandémia COVID-19 neumožnila plánovanú mobilitu. Napriek tomu boli výsledky publikované v dvoch vedeckých článkoch a prezentované na dvoch konferenciách.

ROBAJAC, Dragana - KRIŽÁKOVÁ, Martina - MASNIKOSA, Romana - MILJUŠ, Goran - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - KATRLÍK, Jaroslav.* Sensitive glycoprofiling of insulin-like growth factor receptors isolated from colon tissue of patients with colorectal carcinoma using lectin-based protein microarray. In International Journal of Biological Macromolecules, 2020, vol. 144, p. 932-937. (2019: 5.162 - IF, Q1 JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). ISSN 0141-8130. Typ: ADCA

BARALIĆ, Marko - GLIGORIJEVIĆ, Nikola - BRKOVIĆ, Voin - KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - ŠUNDERIĆ, Miloš - MILJUŠ, Goran - PENEZIĆ, Ana - DOBRIJEVIĆ, Zorana

- LAUŠEVIĆ, Mirjana - NEDIĆ, Olgica - ROBAJAC, Dragana.* Fibrinogen fucosylation as a prognostic marker of end-stage renal disease in patients on peritoneal dialysis. In Biomolecules, 2020, vol. 10, article 1165. (2019: 4.082 - IF, Q2 - JCR, 1.614 - SJR, Q1 - SJR, registrované - WoS Core Collection, Scopus). ISSN 2218-273X. Typ: ADMA

KUNDALIA, Paras - PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KATRLÍK, Jaroslav. Affinity-based method using glycoprotein microarray with lectin recognition for high throughput determination of glycosylation in cancer. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 74. 1L-13. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dimitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Aplikácia na lektínoch založenej microarray a MALDI-MS metódy pri analýze glykozylácie rekombinantných monoklonálnych IgA protilátok. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 76. 1P-03. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

3.) Analýza nukleových kyselín, proteínov a metabolitov ako potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky *(Analysis of nucleic acids, proteins and metabolites as potential circulating biomarkers of pregnancy diabetes)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.3.2020 / 31.12.2022
Evidenčné číslo projektu:	DS-FR-19-0034
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Srbsko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1000 €

Dosiahnuté výsledky:
Zahájil sa výskum v oblasti analýzy potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky, pričom úlohou tímu z Chemického ústavu SAV bolo zamerať sa na glykány proteínov a ich skúmanie pokročilými analytickými metódami. Pandémia COVID-19 neumožnila plánovanú mobilitu. Podarilo sa však realizovať pilotné experimenty a analyzovať testovaciu sadu vzoriek sér od pacientiek. Získané výsledky sa sumarizujú do publikácie.

Programy: COST

4.) Európska multidisciplinárna platforma pre morskú biotechnológiu *(European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech))*

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	29.10.2019 / 28.10.2023
Evidenčné číslo projektu:	COST Action CA18238
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Institute of Biology
Počet spoluriešiteľských	29

inštitúcií:	
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 4300 €

Dosiahnuté výsledky:
Pozornosť bola zameraná na štúdium nových poznatkov v oblasti morskej biotechnológie. Publikovaná bola práca o imunoaktívnych polysacharidoch produkovaných heterotrofným mutantom zelenej mikroriasy *Parachlorella kessleri* HY1 (Chlorellaceae).

SUSHYTSKYI, Leonid - LUKÁČ, Pavol - SYNYTSYA, Andriy - BLEHA, Roman - RAJSIGLOVÁ, Lenka - CAPEK, Peter - POHL, Radek - VANNUCCI, Luca - ČOPÍKOVÁ, Jana - KAŠTÁNEK, Petr. Immunoactive polysaccharides produced by heterotrophic mutant of green microalga Parachlorella kessleri HY1 (Chlorellaceae). In Carbohydrate Polymers, 2020, vol. 246, art. no. 116588 [11] p. (2019: 7.182 - IF, Q1 - JCR, 1.514 - SJR, Q1 - SJR). ISSN 0144-8617.

5.) Európska sústava vakcínových adjuvansov *(European network of vaccine adjuvants (ENOVA))*

Zodpovedný riešiteľ:	Pavol Farkaš
Trvanie projektu:	13.11.2017 / 12.11.2021
Evidenčné číslo projektu:	CA COST Action CA16231
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Vaccine Formulation Institute
Počet spoluriešiteľských inštitúcií:	30
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:
Štúdium literatúry v oblasti využitia adjuvantných látok v príprave moderných a bezpečných vakcín. Mnohé aktivity v roku 2020 boli prerušené pre pandemickú situáciu.

6.) Inovácie s glykánmi: nové horizonty od syntézy po nové biologické ciele *(Innovation with Glycans: new frontiers from synthesis to new biological targets)*

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	8.4.2019 / 7.4.2023
Evidenčné číslo projektu:	COST Action CA18103
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Milan
Počet spoluriešiteľských inštitúcií:	27
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 6880 €

Dosiahnuté výsledky:
Skupina Dr. Hricovíniho:
STSM výbor schválil niekoľko projektov na r. 2020. Výbor sa tiež dohodol, že sa termín na ďalšie obdobie podávania grantov predĺži do 31.októbra 2021 (namiesto 30. apríla 2021) vzhľadom k situácii súvisiacej s pandémiou COVID-19.

Študovala sa relevantná literatúra a pripravovali sa podklady pre publikáciu.

Skupina Dr. Mastihubu:
Vzhľadom na pandemickú situáciu bol zrušený spoločný meeting. Ako náhradný program sa konal webinár INNOGLY Virtual training in GlycoAnalysis and GlycoInformatics a virtuálny meeting pracovných skupín WG1 a WG3. Bola riešená nadprodukcia a izolácia raritnej glykozidázy beta-D-apiozidázy. Výsledky boli publikované v práci:

KARKESZOVÁ, Klaudia - ILLEOVÁ, Viera - KIS, Peter - MASTIHUBA, Vladimír - POLAKOVIČ, Milan. Apiin-induction of beta-apiosidase production by *Aspergillus* sp. strains. In Acta Chimica Slovaca, 2020, vol. 13, p. 72-76. ISSN 1339-3065. DOI: 10.2478/acs-2020-0011. Typ: ADFB

7.) CliniMARK: 'Dobré biomarkerové praktiky' pre zvýšenie počtu klinicky validovaných biomarkerov *(CliniMARK: 'good biomarker practice' to increase the number of clinically validated biomarkers)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	14.3.2017 / 13.3.2021
Evidenčné číslo projektu:	CA COST Action CA16113
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Erasmus University Medical Center
Počet spoluriešiteľských inštitúcií:	34
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:
Výsledky dosiahnuté v oblasti štúdia glyko-biomarkerov boli publikované v jednom vedeckom článku a prezentované na šiestich konferenciách.

van GOOL, Alain - CORRALES, Fernado - ČOLOVIĆ, Mirjana - KRISTIĆ, Danijela - OLIVER-MARTOS, Begona - MARTÍNEZ-CÁCERES, Eva - JAKASA, Ivone - GAJSKI, Goran - BRUN, Virginie - KYRIACOU, Kyriacos - BURZYNSKA-PEDZIWIATR, Izabela - WOZNIAK, Lucyna Alicja - NIERKENS, Stephan - GARCÍA, César Pascual - KATRLÍK, Jaroslav - BOJIC-TRBOJEVIC, Zanka - VACEK, Jan - LLORENTE, Alicia - ANTOHE, Felicia - SUICA, Viorel - SUAREZ, Guillaume - t'KINDT, Ruben - MARTIN, Petra - PENQUE, Deborah - MARTINS, Ines Lanca - BODOKI, Ede - JACOB, Bogdan-Cezar - AYDINDOGAN, Eda - TIMUR, Suna - ALLINSON, John - SUTTON, Christopher - LUIDER, Theo - WITTFOOTH, Saara - SAMMAR, Marei. Analytical techniques for multiplex analysis of protein biomarkers. In Expert Review of Proteomics, 2020, vol. 17, p. 257-273. (2019: 3.614 - IF, Q1 - JCR, 0.979 - SJR, Q2 - SJR, registrované - WoS Core Collection, Scopus). ISSN 1478-9450. Typ: ADMA

PAŽITNÁ, Lucia - PAKANOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍK, Jaroslav. Glycan analysis of the SARS-CoV-2 spike glycoprotein S1: Lectin-based microarray and mass spectrometry approaches. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 74. 1L-12. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dmitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Analýza glykánov

rekombinantných IgA microarray metódou založenou na lektínoch a technikou MALDI-MS. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica: Občianske združenie PREVEDA, 1.5.- 1.6.2020. Abstrakt č. 2007. ISBN 978-80-972360-6-9. Typ: AFH

PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dmitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Application of lectin-based microarray and MALDI-MS technique for glycosylation analysis of recombinant monoclonal IgA antibodies. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts, November 11, 2020, Nitra, Slovakia. Nitra: Slovak University of Agriculture in Nitra, 2020, p. 34. ISBN 978-80-552-2242-4. Typ: AFH

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KIM, Seonghun - KATRLÍK, Jaroslav. Glykomická analýza vzoriek sér detí s ochorením ADHD lektínovou microarray metódou a hmotnostnou spektrometriou. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 77. 1P-06. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KATRLÍK, Jaroslav. Glycomic analysis of children serum samples with ADHD disorder using lectin-based microarray and MALDI-TOF-MS methods. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts, November 11, 2020, Nitra, Slovakia. Nitra: Slovak University of Agriculture in Nitra, 2020, p. 30. ISBN 978-80-552-2242-4. Typ: AFH

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KIM, Seonghun - KATRLÍK, Jaroslav. Glykoprofilovanie sér detí s poruchou aktivity a pozornosti (ADHD) microarray metódou založenou na lektínoch a hmotnostnou spektrometriou. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica: Občianske združenie PREVEDA, 1.5.- 1.6.2020. Abstrakt č. 1990. ISBN 978-80-972360-6-9. Typ: AFH

8.) Funkčné glykonanomateriály pre vývoj sond pre diagnostiku a cielenú terapiu *(Functional glyconanomaterials for the development of diagnostics and targeted therapeutic probes (GLYCONanoPROBES))*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	14.3.2019 / 13.3.2023
Evidenčné číslo projektu:	COST Action CA18132
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Bristol
Počet spoluriešiteľských inštitúcií:	29
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:
Výsledky získané v oblasti analýzy biologicky významných glykánov a glykobiomarkerov boli prezentované na siedmich konferenciách.

PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dimitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Aplikácia na lektínoch založenej microarray a MALDI-MS metódy pri analýze glykozylácie rekombinantných monoklonálnych IgA protilátok. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 76. 1P-03. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

PAŽITNÁ, Lucia - PAKANOVÁ, Zuzana - KUNDALIA, Paras - KIANIČKOVÁ, Kristína - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍK, Jaroslav. Glycan analysis of the SARS-CoV-2 spike glycoprotein S1: Lectin-based microarray and mass spectrometry approaches. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 74. 1L-12. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dmitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Analýza glykánov rekombinantných IgA microarray metódou založenou na lektínoch a technikou MALDI-MS. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica: Občianske združenie PREVEDA, 1.5.- 1.6.2020. Abstrakt č. 2007. ISBN 978-80-972360-6-9. Typ: AFH

PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dmitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Application of lectin-based microarray and MALDI-MS technique for glycosylation analysis of recombinant monoclonal IgA antibodies. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts, November 11, 2020, Nitra, Slovakia. Nitra: Slovak University of Agriculture in Nitra, 2020, p. 34. ISBN 978-80-552-2242-4. Typ: AFH

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KIM, Seonghun - KATRLÍK, Jaroslav. Glykomická analýza vzoriek sér detí s ochorením ADHD lektínovou microarray metódou a hmotnostnou spektrometriou. In Czech Chemical Society Symposium Series, 2020, ročník 18, číslo 3, p. 77. 1P-06. ISSN 2336-7202. Sborník příspěvků: 72. sjezd českých a slovenských chemických společností, 6.-9. září 2020, Praha, Česká republika. Typ: AFG

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KATRLÍK, Jaroslav. Glycomic analysis of children serum samples with ADHD disorder using lectin-based microarray and MALDI-TOF-MS methods. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts, November 11, 2020, Nitra, Slovakia. Nitra: Slovak University of Agriculture in Nitra, 2020, p. 30. ISBN 978-80-552-2242-4. Typ: AFH

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana

- KIM, Seonghun - KATRLÍK, Jaroslav. Glykoprofilovanie sér detí s poruchou aktivity a pozornosti (ADHD) microarray metódou založenou na lektínoch a hmotnostnou spektrometriou. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica: Občianske združenie PREVEDA, 1.5.- 1.6.2020. Abstrakt č. 1990. ISBN 978-80-972360-6-9. Typ: AFH

9.) Sieť kváskovej biotechnológie zameraná na nové, zdravšie a trvalo udržateľné potraviny a bioprocesy *(SOURDOugh biotechnology network towards novel, healthier and sustainable food and bIoproCesseS)*

Zodpovedný riešiteľ:	Zuzana Košťálová
Trvanie projektu:	10.4.2019 / 9.4.2023
Evidenčné číslo projektu:	COST Action CA18101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Porto
Počet spoluriešiteľských inštitúcií:	33
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:
Pokračovalo sa v štúdiu polysacharidového zloženia odpadov z cukrovej repy, obilných otrúb a orechových šupiek, ktoré majú perspektívu nájsť uplatnenie ako aditíva v kváskovej technológii. U vzoriek bol urobený podrobný rozbor a stanovená základná štruktúra jednotlivých sacharidových komponentov. Výsledky zatiaľ neboli prezentované.

10.) Vybudovanie celoeurópskej siete pre udržateľné zhodnotenie lignínu *(Establishment of a Pan-European network on the sustainable valorisation of lignin (LignoCOST))*

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	4.10.2018 / 3.10.2022
Evidenčné číslo projektu:	CA COST Action CA17128
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stichting Wageningen Research
Počet spoluriešiteľských inštitúcií:	35
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:
Pokračovalo sa v príprave diglykozylovaných derivátov tyrosolu a ich analógov (1 akceptovaná publikácia vo Food Chemistry - vyjde v roku 2021). Hydrofóbnym iónovým párovaním pripravený preparát chrenovej peroxidázy (rozpustný v organických rozpúšťadlách) bol ocharakterizovaný z hľadiska katalytických vlastností a úspešne použitý v kontrolovanej oligomerizácii tyrosolu v aprotickom prostredí.

11.) Sieť zeleného chemického inžinierstva smerom k zvyšovaniu udržateľnosti procesov *(Green Chemical Engineering Network towards upscaling sustainable processes (GREENERING))*

Zodpovedný riešiteľ:	Mária Mastihubová / Zdenka Hromádková
Trvanie projektu:	14.10.2019 / 13.10.2023

Evidenčné číslo projektu:	COST Action CA18224
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (FCT NOVA)
Počet spoluriešiteľských inštitúcií:	31
Čerpané financie:	EC Brussels (COST): 829 € Podpora medzinárodnej spolupráce z národných zdrojov: 8600 €

Dosiahnuté výsledky:
Skupina Dr. Hromádkovej: Pokračovalo sa v štúdiu patentov a publikácii týkajúcich sa zavádzania nových zelených postupov a technológii. V spolupráci s inými pracoviskami bola publikovaná práca o extracelulárnom biopolymére, ktorý je produkovaný cyanobaktériou *Nostoc* sp. Práca sa zaoberá izoláciou polysacharidu z tejto sinice, jeho štruktúrou a biologickými efektmi. Pripravuje sa publikácia o využití ultrazvuku pri izolácii arabinogalaktánu za rôznych extrakčných podmienok z drevného odpadu (pilín) smrekovca (*Larix decidua*).

UHLIARIKOVÁ, Iveta - ŠUTOVSKÁ, Martina - BARBORÍKOVÁ, Jana - MOLITORISOVÁ, Miroslava - KIM, Hee Jin - PARK, Yong Il - MATULOVÁ, Mária - LUKAVSKÝ, Lubomír - HROMÁDKOVÁ, Zdenka - CAPEK, Peter. Structural characteristics and biological effects of exopolysaccharide produced by cyanobacterium Nostoc sp. In International Journal of Biological Macromolecules, 2020, vol. 160, p. 364-371. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR). ISSN 0141-8130.

Skupina Dr. Mastihubovej: Na prvom spoločnom meetingu vo februári 2020 boli určené pracovné úlohy a ich rámcové výskumné zameranie.

12.) 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:	Hana Schusterová
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:	35
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 1147 €

Dosiahnuté výsledky:
Výskum bol zameraný na kvasinky produkujúce karotenoidné pigmenty, ktoré pôsobia ako antioxidanty a tým, že interagujú s reaktívnymi kyslíkovými radikálmi chránia ich bunkové membrány. Študovali sa najmä kvasinkové kultúry *Rhodotorula glutinis*, *Rhodotorula kratochvilovae* a *Sporidiobolus salmonicolor* a to v súvislosti s ich schopnosťou reagovať na prítomnosť iónov zinku a reaktívnych kyslíkových radikálov. Keďže projekt skončil v apríli 2020, jeho výsledkom bola sumarizácia kvasiniek produkujúcich karotenoidné látky a ich biotechnologické využitie. V dôsledku pandémie COVID-19 sa výsledky nepodarilo prezentovať na žiadnej vedeckej konferencii, sú však predmetom pripravovanej publikácie.

13.) Nekonvenčné kvasinky na výrobu bioproduktov *(Non-conventional yeasts for the production of bioproducts (YEAST4BIO))*

Zodpovedný riešiteľ:	Katarína Šuchová
Trvanie projektu:	7.11.2019 / 6.11.2023
Evidenčné číslo projektu:	COST Action CA18229
Organizácia je koordinátorom projektu:	nie
Koordinátor:	IMDEA Energy Institute
Počet spoluriešiteľských inštitúcií:	32
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 4013 €

Dosiahnuté výsledky:
Pracovníci zo Zbierky kvasiniek začali s izoláciou kmeňov kvasiniek rastúcich v blízkosti ovocných stromov. Po izolácii a charakterizácii kvasinkových kmeňov nasledovalo testovanie kmeňov na schopnosť rásť na rôznych rastlinných polysacharidoch, ako celulóza, xylán a pektín, pričom bola využitá metóda rastu na živných pôdach obsahujúcich farebné substráty. Z pozitívnych kmeňov budú následne vytipované kmene k ďalšiemu štúdiu, u ktorých bude predpoklad, že by mohli prispieť k lepšiemu využitiu rastlinného materiálu pri rôznych fermentáciách. Výsledky zatiaľ neboli publikované.

Programy: Horizont 2020

14.) Umožnenie využitia celého potenciálu Instruct na konsolidáciu a rozšírenie infraštruktúry potrebnej pre výskum v oblasti vied o živote *(Releasing the full potential of Instruct to expand and consolidate infrastructure services for integrated structural life science research)*

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	Grant agreement No 731005
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Instruct Academic Services Limited, Oxford, UK
Počet spoluriešiteľských inštitúcií:	16 - Belgicko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 2, Grécko: 1, Izrael: 1, Taliansko: 1, Holandsko: 1, Portugalsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	EC Brussels: 23886 € Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:
V rámci projektu sa využila existujúca experimentálna infraštruktúra na Chemickom ústave SAV a expertíza v oblasti glykobiológie. Analyzovali sa glykoproteíny na základe požiadavky z University of Oxford a University College London. Analýzy sa uskutočnili na komerčnej báze a finančný prínos bol 6000 Eur. Na základe výsledkov sa Chemický ústav SAV etabloval ako jediné laboratórium v INSTRUCT-ERIC, zamerané na analýzu glykánov (https://instruct-eric.eu/submit-call/glycan-analysis-). V súčastnosti sú otvorené dve výzvy pre doktorandov a post-doktorandov z univerzít a firiem na merania štruktúry glykánov. Zatiaľ sa prihlásili štyri projekty (dva z University of Exeter, UK, po jednom z Åbo Akademi, Turku, FI a zo Sapienza University, Rome, IT).

15.) Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty *(A Novel Detection protocols for REliable prostate cancer assays)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.12.2018 / 31.5.2020
Evidenčné číslo projektu:	ERC PoC grant agreement ID: 825586
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 10320 €

Dosiahnuté výsledky:
Boli pripravované rôzne bioanalytické zariadenia na detekciu biomarkerov rakoviny prostaty. Prvým z nich bol nízkomolekulový biomarker sarkozín detegovaný enzýmovým biosenzorom založeným na využití nového 2D nanomateriálu MXénu. Druhým z prístupov bola detekcia zmeny v glykozylácii fPSA (voľnej formy prostatického špecifického antigénu) ako biomarker rakoviny prostaty.

BERTÓK, Tomáš - JÁNÉ, Eduard - BERTÓKOVÁ, Anikó - LORENCOVÁ, Lenka - ZVARA, Peter - SMOLKOVÁ, Božena - KUČERA, Radek - KLOCKER, Helmut - TKÁČ, Ján.* Validating fPSA glycoprofile as a prostate cancer biomarker to avoid unnecessary biopsies and re-biopsies. In Cancers, 2020, vol. 12, article 2988, 10 pages. (2019: 6.126 - IF, Q1 - JCR, 1.938 - SJR, Q1 - SJR, registrované - WoS Core Collection, Scopus). ISSN 2072-6694. Typ: ADMA

HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - VIKARTOVSKÁ, Alica - TANVIR, Aisha - KASÁK, Peter - TKÁČ, Ján.* Ultrasensitive Ti3C2TX MXene/chitosan nanocomposite-based amperometric biosensor for detection of potential prostate cancer marker in urine samples. In Processes, 2020, vol. 8, article 580. (2019: 2.753 - IF, Q2 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). ISSN 2227-9717. Typ: ADCA

16.) Syntetická biológia sacharid-viažucich proteínov: inžinierstvo proteín-sacharidových interakcií na diagnostiku a cielenú bunkovú interakciu *(Synthetic biology of carbohydrate-binding proteins: engeneering protein-carbohydrate interactions for diagnostics and cell targeting)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.10.2018 / 30.9.2022
Evidenčné číslo projektu:	MSCA-ITN-ITN grant agreement ID: 814029
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Leeds
Počet spoluriešiteľských inštitúcií:	7 - Rakúsko: 2, Nemecko: 1, Dánsko: 1, Francúzsko: 2, Veľká Británia: 1
Čerpané financie:	115242 € Podpora medzinárodnej spolupráce z národných zdrojov: 4816 €

Dosiahnuté výsledky:
Pripravený bol prehľad literatúry so zameraním na využitie elektrochemickej impedančnej spektrometrie (EIS) na charakterizáciu nového 2D nanomateriálu MXénu. Zároveň bolo zosumarizované využitie EIS ako detekčnej platformy pri detekcii viacerých látok, vrátane

vysokomolekulových. Pre členov konzorcia bol pripravený pravidelný projektový míting (8.-9.12.2020).

AGUEDO, Juvissan - LORENCOVÁ, Lenka - BARÁTH, Marek - FARKAŠ, Pavol - TKÁČ, Ján. Electrochemical impedance spectroscopy on 2D nanomaterial MXene modified interfaces: Application as a characterization and transducing tool. In Chemosensors, 2020, vol. 8, article 127, 20 pages. (2019: 3.108 - IF, Q1/Q2 - JCR, 0.568 - SJR, Q2 - SJR, karentované - CCC). ISSN 2227-9040. Typ: ADCA

Programy: JRP

17.) Dizajn, syntéza a charakterizácia účinných inhibítorov manozidáz na báze iminosacharidov a glykokonjugátov *(Design, synthesis and characterization of efficient mannosidase inhibitors related to iminosugars and glycoconjugates)*

Zodpovedný riešiteľ:	Miroslav Kóóš
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	SAS-MOST/JRP/2019/882/GM-INHIB
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	MVTS SAV: 25000 €

Dosiahnuté výsledky:
Z D- a L-ribózy boli pripravené niektoré kľúčové pyrolidínové deriváty, konkrétne imino-D-lyxitoly modifikované v polohe C-1 a C-5 a potvrdená bola ich štruktúra (pomocou NMR, IČ a hmotnostných spektier). Časť výsledkov bola prezentovaná na vedeckej konferencii. Plánovaná návšteva partnerského pracoviska na Taiwane sa v dôsledku pandémie COVID-19 neuskutočnila.

KALNÍK, Martin - ZAJIČKOVÁ, Mária - ŠESTÁK, Sergej - KOÓŠ, Miroslav - BELLA, Maroš. Synthesis of new bioactive mannostatin A analogues. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica: Občianske združenie PREVEDA, 1.5.- 1.6.2020. Abstrakt č. 1886. ISBN 978-80-972360-6-9. Typ: AFH

18.) Mikroelektroforetické nástroje pre bioanalýzu *(Microelectrophoretic tools for bioanalysis)*

Zodpovedný riešiteľ:	Vladimír Pätoprstý
Trvanie projektu:	1.10.2017 / 30.9.2020
Evidenčné číslo projektu:	V4-Korea/JRP/2017/69/MTB
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Seoul National University
Počet spoluriešiteľských inštitúcií:	4 - Česko: 1, Maďarsko: 1, Kórejská republika: 1, Poľsko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 18750 €

Dosiahnuté výsledky:
Analýzou vzoriek moču pacientov trpiacich Pompeho chorobou sa pomocou TLC a LESA

vytvorenou mikrokvapkou získali priamou injektážou do hmotnostného spektrometra hmotnostné spektrá rôznych analytov od malých molekúl po proteíny. Mikrokvapka sa priamo vzorkovala aj do kapilárnej elektroforézy, derivatizovala pomocou fluorofóru v kapiláre a analyzovala pomocou CE-LIF. Týmto spôsobom sa kvalitatívne i kvantitatívne s veľkou citlivosťou stanovili aj niektoré dosiaľ neznáme látky, výskyt ktorých môže napomôcť pri diagnostike Pompeho choroby. Výsledky budú publikované po zahrnutí štatistických údajov.

JÁRVÁS, Gábor - GUTTMAN, András - MIĘKUS, Natalia - BĄCZEK, Tomasz - JEONG, Sunkyung - CHUNG, Doo Soo - PÄTOPRSTÝ, Vladimír - MASÁR, Marián - HUTTA, Milan - DATINSKÁ, Vladimíra - FORET, František. Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices. In TrAC Trends in Analytical Chemistry, 2020, vol. 122, article 115702. (2019: 9.801 - IF, Q1 - JCR, 2.153 - SJR, Q1 - SJR, karentované - CCC). ISSN 0165-9936. Typ: ADCA

Domáce projekty

Programy: VEGA

1.) Dizajn, syntéza a štúdium vzťahu medzi štruktúrou, aktivitou a selektivitou inhibítorov enzýmov z rodiny GH38 *(Design, synthesis and study of structure-activity-selectivity relationship of inhibitors against enzymes from GH38 family)*

Zodpovedný riešiteľ:	Maroš Bella
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0031/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 21775 €

2.) Intenzifikácia vývoja, produkcie a neinvazívnej charakterizácie nových imobilizovaných celobunkových biokatalyzátorov na báze enzýmových kaskád pre produkciu chemických špecialít *(Intensification of the development, production and non-invasive characterization of new immobilized whole-cell biocatalysts based on enzyme cascades for the production of chemical specialities)*

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0130/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 12300 €

3.) Polysacharidy nižších a vyšších rastlín *(Polysaccharides of lower and higher plants)*

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.1.2018 / 31.12.2021

Evidenčné číslo projektu:	2/0051/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 8029 €

4.) Úloha proteínkináz v procesoch zúčastnených udržiavania stability genómu *(Role of protein kinases in processes involved in maintenance of genome stability)*

Zodpovedný riešiteľ:	Ľuboš Čipák
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0026/18
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 3000 €

5.) Identifikácia a vlastnosti biologicky aktívnych látok izolovaných v rámci fytochemických štúdií *(Identification and properties of biologically active compounds isolated in the framework of phytochemical studies)*

Zodpovedný riešiteľ:	Viera Dujnič
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	1/0763/19
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta chemickej a potravinárskej technológie STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

6.) Identifikácia a charakterizácia izolátov *V. cholerae* z vodných tokov, štrkovísk a termálnych vôd na území Slovenska *(Identification and characterization of V. cholerae isolates from rivers, dams and thermal waters in Slovakia)*

Zodpovedný riešiteľ:	Pavol Farkaš
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0093/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 9186 €

7.) Nové prekurzory pre farmaceutiká na báze glykokonjugátov: vzťah medzi štruktúrou a biologickou aktivitou *(New glycoconjugate-based precursors of pharmaceuticals: structure-activity relationship analysis)*

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0022/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 11339 €

8.) Funkčné sacharidy z rastlinných odpadov ako potenciálny doplnok stravy: extrakcia, charakterizácia a terapeutické využitie *(Functional carbohydrates from plant waste as a potential food supplement: extraction, characterization and therapeutic potentials)*

Zodpovedný riešiteľ:	Zdenka Hromádková
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0092/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 4335 €

9.) Chemoenzymatická príprava glykozylovaných opiátov a ich analógov *(Chemo-enzymatic preparation of glycosylated opiates and their analogues)*

Zodpovedný riešiteľ:	Andrej Chyba
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	2/0153/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 3628 €

10.) Analýza glykánových markerov inovatívnymi metódami založenými na biočipoch a biosenzoroch s využitím nanotechnológií *(Analysis of glycan markers by innovative methods based on biochips and biosensors using nanotechnologies)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0137/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských	0

inštitúcií:	
Čerpané financie:	SAV (VEGA): 30009 €

11.) Antimikrobiálne látky v larválnej potrave včely a ich účinok voči patogénu moru včelieho plodu *(Antimicrobial substances in honeybee larval food and their effect against American foulbrood pathogen)*

Zodpovedný riešiteľ:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0164/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 9815 €

12.) Účasť molekúl s biologickou aktivitou a bunkovej steny rastlín v obranných procesoch rastlín vyvolaných abiotickým stresom *(Participation of molecules with biological activity and plant cell wall in defence processes of plants induced by abiotic stress)*

Zodpovedný riešiteľ:	Karin Kollárová
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0105/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 12489 €

13.) Virtuálny skríning, syntéza a štúdium interakcií potenciálnych inhibítorov glykozyltransferáz *(Virtual screening, synthesis and study of the interactions of the potential glycosyltransferases inhibitors)*

Zodpovedný riešiteľ:	Stanislav Kozmon
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0137/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 16434 €

14.) Analýza alelovo-špecifickej regulácie expresie CD33 *(Analyses of allele-specific regulation of CD33 expression)*

Zodpovedný riešiteľ:	Jana Královičová
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.1.2018 / 31.12.2021

Evidenčné číslo projektu:	2/0057/18
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biovied SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

15.) Vplyv včelieho enzýmu glukózooxidáza na antibakteriálne vlastnosti medu a charakterizácia jeho produkcie a aktivity v podhltanových žľazách včely medonosnej (*Apis mellifera*) *(Effect of honeybee glucose oxidase on honey antibacterial properties and characterisation its production and activity in hypopharyngeal glands of honeybee (Apis mellifera))*

Zodpovedný riešiteľ:	Juraj Majtán
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0004/18
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

16.) Diglykozidázy v biokatalýze *(Diglycosidases in biocatalysis)*

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	1.1.2019 / 31.12.2021
Evidenčné číslo projektu:	2/0126/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 12249 €

17.) Príprava a charakterizácia multifunkčného nanokompozitu Fe3O4-ZnO-biopolymér so zameraním na čistenie vôd *(Preparation and characterization of the multifunctional Fe3O4-ZnO-biopolymer nanocomposite with a focus on water purification)*

Zodpovedný riešiteľ:	Júlia Mičová
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	2/0157/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 1361 €

18.) Enzymatická produkcia ekonomicky významných oligosacharidov a opiátov *(Enzymatic production of economically valuable oligosaccharides and opiates)*

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0058/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 8166 €

19.) MALDI-TOF-MS a ESI-MSn glykoprofilovanie klinicky významných proteínov *(MALDI-TOF-MS and ESI-MSn glycoprofiling of clinically important proteins)*

Zodpovedný riešiteľ:	Marek Nemčovič
Trvanie projektu:	1.1.2018 / 31.12.2020
Evidenčné číslo projektu:	2/0130/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 5901 €

20.) Imunobiologická efektívnosť nových syntetických imunogénov mimikujúcich fungálne molekulové vzory patogénnosti v perspektívnom dizajne subjednotkovej antifungálnej vakcinačnej formuly *(Immunological effectivity of new synthetic immunogens mimicking fungal pathogen associated molecular patterns in prospective design of subcellular anti-fungal vaccine formulae)*

Zodpovedný riešiteľ:	Ema Paulovičová
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0098/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 11074 €

21.) Vývoj nových techník úpravy biomedicínskych a environmentálnych vzoriek pre pokročilé kombinované analytické metódy *(Development of new biomedical and environmental sample processing techniques for advanced combined analytical methods)*

Zodpovedný riešiteľ:	Vladimír Pätoprstý
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	1/0787/18
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 3187 €

22.) Enzýmový rozklad najneprístupnejších epitopov rastlinných polysacharidov *(Enzymatic decomposition of the most recalcintrant epitopes of plant polysaccharides)*

Zodpovedný riešiteľ:	Vladimír Puchart
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0016/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 5764 €

23.) Redoxná homeostáza, proteostáza a zápal ako potenciálne ciele pre ovplyvnenie starnutia a s ním spojených ochorení: Modulácia pomocou látok prírodného a syntetického pôvodu *(Redox homeostasis, proteostasis and inflammation as potential targets for influencing ageing and age-related diseases: Modulation by the compounds of natural and synthetic origin)*

Zodpovedný riešiteľ:	Lucia Račková
Zodpovedný riešiteľ v organizácii SAV:	Ján Mucha
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0041/17
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

24.) Kvasinky a kvasinkovité organizmy asociované s kvitnúcimi rastlinami a trávami *(Yeasts and yeast-like organisms associated with flowering plants and grasses)*

Zodpovedný riešiteľ:	Renáta Vadkertiová
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0017/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6107 €

25.) Štruktúrne a funkčné adaptácie vybraných extremofilov a poľnohospodárskych plodín na abiotické stresory *(Structural and functional adaptations of selected extremophiles and agricultural crops to abiotic stressors)*

Zodpovedný riešiteľ:	Zuzana Vivodová
Trvanie projektu:	1.1.2017 / 31.12.2020

Evidenčné číslo projektu:	1/0605/17
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Programy: APVV

26.) Proteín Dbl2 ako nový regulátor stability a dynamiky genómu v kvasinkách Schizosaccharomyces pombe *(Protein Dbl2 as a novel regulator of genome stability and dynamics in fission yeast)*

Zodpovedný riešiteľ:	Silvia Bágeľová Poláková
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0219
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biovied SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 13347 €

27.) 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: 24537 €

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:	Pavol Farkaš
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	0

inštitúcií:	
Čerpané financie:	APVV: 18000 €

29.) Analýza príčin úmrtia pacientov a optimalizácia diferenciálnej diagnostiky v súvislosti s infekciou SARS-CoV-2 v Slovenskej republike *(Analysis of causes of death of patients and optimization of differential diagnosis in connection with SARS-CoV-2 infection in the Slovak Republic)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	16.9.2020 / 31.12.2021
Evidenčné číslo projektu:	PP-COVID-20-0051
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Lekárska fakulta
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 13672 €

30.) Nové antivirálne liečivá: Dizajn, syntéza a testovanie aktivity nových špecifických inhibítorov virálnych proteáz koronavírusu SARS-CoV-2 *(New antiviral drugs: Design, synthesis and activity evaluation of specific inhibitors of viral proteases of coronavirus SARS-CoV-2)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	16.9.2020 / 31.12.2021
Evidenčné číslo projektu:	PP-COVID-20-0010
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita sv. Cyrila a Metoda v Trnave, Fakulta prírodných vied
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	APVV: 13785 €

31.) Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok *(Computational design, synthesis, testing and disposition of inhibitors of neuraminidases of influenza A virus as potential antiviral compounds)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0239
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Farmaceutická fakulta
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 12299 €

32.) Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách *(Potential of silicon for mitigation of arsenic and antimony toxicity in agricultural crops)*

Zodpovedný riešiteľ:	Karin Kollárová
Trvanie projektu:	1.7.2018 / 30.6.2022

Evidenčné číslo projektu:	APVV-17-0164
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 10000 €

33.) Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie *(Preparation of new antibiotics and antitumor agents by manipulations of secondary metabolite genes and synthetic biology methods)*

Zodpovedný riešiteľ:	Ján Kormanec
Zodpovedný riešiteľ v organizácii SAV:	Mária Matulová
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0009
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 2596 €

34.) 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:	Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 0 €

35.) Kotranskripčné formovanie pre-mRNA štruktúry, model štrukurálnych motívov nevyhnutných pre definíciu exónu *(Co-transcriptional folding of pre-mRNA, model of structural motifs required for exon definition)*

Zodpovedný riešiteľ:	Jana Královičová
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0096
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biovied SAV
Počet spoluriešiteľských	2 - Slovensko: 2

inštitúcií:
Čerpané financie: APVV: 9856 €

36.) 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: Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 10500 €

37.) Vzájomná ineraкcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi *(Interaction between proteases, chaperones and kinases in stress condition cause by pathological conditions)*

Zodpovedný riešiteľ: Eva Kutejová
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: APVV-19-0298
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 10500 €

38.) Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom *(Regulation of pericellular proteolysis: From molecular mechanisms to novel immune cell subsets and therapeutic tools)*

Zodpovedný riešiteľ: Vladimír Leksa
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0452
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 2772 €

39.) 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:	Ústav anorganickej chémie SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 2250 €

40.) Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov *(Chemoenzymatic synthesis of substances with pharmaceutical potential: Optimization of processes of phenylethanoid glycosides production)*

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0188
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 32780 €

41.) Produkcia bakteriálnych inklúznych teliesok pre biokatalýzu a biomedicínu (BIT-scale up) *(Production of bacterial inclusion bodies for biocatalysis and biomedicine (BIB-scale up))*

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0361
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 43203 €

42.) Vývoj bioimunoterapeutík inšpirovaný vírusovými trikmi: Liečenie aj napriek trikom *(Development of bioimmunotherapeutics inspired by viral tricks: Treating despite the tricks)*

Zodpovedný riešiteľ:	Ivana Nemčovičová
Zodpovedný riešiteľ v organizácii SAV:	Juraj Kóňa
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0376
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV

Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 3750 €

43.) Inovatívne prístupy v toxikológii starnutia *(Innovative approaches in toxicology of ageing)*

Zodpovedný riešiteľ:	Lucia Račková
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0336
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 23744 €

44.) Viacliekoká rezistencia u leukemických buniek - fenotyp spôsobený interferenciou viacerých molekulárnych príčin *(Multidrug resistance of leukemia cells - Phenotype caused by interference of multimodal molecular reasons)*

Zodpovedný riešiteľ:	Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Katrlík
Trvanie projektu:	1.7.2020 / 30.5.2024
Evidenčné číslo projektu:	APVV-19-0093
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biovied SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 2070 €

45.) Glykánové bionanosenzory a bioanalytické zariadenia - ich konštrukcia, validácia a aplikácia v diagnostike rakoviny *(Glycan bionanosensors and bioanalytical devices - their construction, validation and application for cancer diagnostics)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0300
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 55982 €

46.) 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 / 31.10.2020

Evidenčné číslo projektu:	APVV-15-0744
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 16375 €

Programy: Iné projekty

47.) Nové prístupy k diagnostike porúch metabolizmu glykokonjugátov *(New approaches in the diagnostics of glycoconjugate metabolism disorders)*

Zodpovedný riešiteľ:	Zuzana Pakanová
Trvanie projektu:	1.11.2019 / 31.12.2021
Evidenčné číslo projektu:	2019/7-CHÚSAV-4
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Ministerstvo zdravotníctva SR: 94360 €

48.) Glykoprofilácia proteínov prítomných v sére a v exózomoch pre včasnú diagnostiku rakoviny prostaty *(Glycoprofiling of proteins present in serum and exosomes for early prostate cancer diagnostics)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.12.2019 / 31.12.2021
Evidenčné číslo projektu:	2019/68-CHÚSAV-1
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	Ministerstvo zdravotníctva SR: 51223 €

49.) Skorá diagnostika kolorektálneho karcinómu a rakoviny semeníkov glykoprofiláciou *(Early diagnostics of colorectal and testicular cancer by glycoprofiling)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.12.2018 / 31.12.2020
Evidenčné číslo projektu:	2018/23-SAV-1
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Ministerstvo zdravotníctva SR: 99996 €

Programy: Štrukturálne fondy EÚ Výskum a vývoj

50.) CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby *(CEMBAM - Center of Medical Bio-additive Research and Production)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.9.2020 / 1.6.2023
Evidenčné číslo projektu:	313011V358
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národný ústav reumatických chorôb
Počet spoluriešiteľských inštitúcií:	5 - Slovensko: 5
Čerpané financie:	0

51.) Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu *(Center for advanced therapies for chronic inflammatory diseases of the musculoskeletal system)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.6.2020 / 1.6.2023
Evidenčné číslo projektu:	313011W410
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národný ústav reumatických chorôb
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	0

52.) Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa *(Center for Biomedical Research - BIOMEDIRES - II. phase)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2020 / 1.6.2023
Evidenčné číslo projektu:	313010W428
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Medirex Group Academy, n.o.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 61107 €

53.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom *(Long-term strategic research and development focused on the occurrence of Lynch syndrome in the Slovak population and possibilities of prevention of tumors associated with this syndrome)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2020 / 1.6.2023
Evidenčné číslo projektu:	313011V578
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave

Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	0

54.) Integrácia výsledkov multiomik štúdií a biotechnologická produkcia biologicky významných látok *(Integrating multiomics study results and biotechnological production of biologically important substances)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.6.2016 / 1.6.2021
Evidenčné číslo projektu:	313010T560
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	10586 €

Programy: DoktoGranty

55.) Analýza glykánov gestačného diabetu lektínovou microarray metódou *(Glycan analysis of gestational diabetes mellitus by lectin-based microarray)*

Zodpovedný riešiteľ:	Lucia Pažitná
Trvanie projektu:	1.1.2020 / 31.12.2020
Evidenčné číslo projektu:	APP0061
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 1400 €

56.) Diagnostika karcinómu prsníka s použitím detekcie biomarkerov so zameraním na analýzu glykánového profilu *(Diagnosis of breast cancer with use of detection biomarkers through protein glycoprofiling analysis)*

Zodpovedný riešiteľ:	Veronika Pinková Gajdošová
Trvanie projektu:	1.1.2020 / 31.12.2020
Evidenčné číslo projektu:	APP0044
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 1300 €

57.) Štúdium endotransglykozyláz z jačmeňa *(Study of barley endotransglycosylases)*

Zodpovedný riešiteľ:	Barbora Stratilová
Trvanie projektu:	1.1.2020 / 31.12.2020

Evidenčné číslo projektu:	APP0075
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 2000 €

Príloha C

Publikačná činnosť organizácie (*generovaná z ARL*)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 HEIFETZ, Alexander - SLÁDEK, Vladimír - TOWNSEND-NICHOLSON, Andrea - FEDOROV, Dmitri G.**. Characterizing protein-protein interactions with the fragment molecular orbital method. In Quantum Mechanics in Drug Discovery. Series: Methods in Molecular Biology. - New York : Springer (Humana Press imprint), 2020, 2020, vol. 2114, chapter 13, p. 187-205. ISBN 978-1-0716-0281-2. Dostupné na: https://doi.org/10.1007/978-1-0716-0282-9_13.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 AGUEDO, Juvissan - LORENCOVÁ, Lenka - BARÁTH, Marek - FARKAŠ, Pavol - TKÁČ, Ján**. Electrochemical impedance spectroscopy on 2D nanomaterial MXene modified interfaces: Application as a characterization and transducing tool. In Chemosensors, 2020, vol. 8, art. no. 127 [20] p. (2019: 3.108 - IF, Q1 - JCR, 0.568 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-9040. Dostupné na: https://doi.org/10.3390/chemosensors8040127

ADCA02 BALICKI, Sebastian** - PAWLACZYK-GRAJA, Izabela - GANCARZ, Roman - CAPEK, Peter - WILK, Kazimiera**. Optimization of ultrasound-assisted extraction of functional food fiber from canadian horseweed (Erigeron canadensis L.). In ACS Omega, 2020, vol. 5, p. 20854-20862. (2019: 2.870 - IF, Q2 - JCR, 0.767 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2470-1343. Dostupné na: https://doi.org/10.1021/acsomega.0c02181

ADCA03 BARÁTH, Marek** - JAKUBČINOVÁ, Jana - KONYARIKOVÁ, Zuzana - KOZMON, Stanislav** - MIKUŠOVÁ, Katarína - BELLA, Maroš. Synthesis, docking study and biological evaluation of D-fructofuranosyl and D-tagatofuranosyl sulfones as potential inhibitors of the mycobacterial galactan synthesis targeting the galactofuranosyltransferase GlfT2. In Beilstein Journal of Organic Chemistry, 2020, vol. 16, p. 1853-1862. (2019: 2.622 - IF, Q2 - JCR, 0.714 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1860-5397. Dostupné na: https://doi.org/10.3762/bjoc.16.152

ADCA04 BERTÓK, Tomáš - JÁNÉ, Eduard - CHRENKOVÁ, Nikola - HRONČEKOVÁ, Štefánia - BERTÓKOVÁ, Anikó, Illésová - HÍREŠ, Michal - VIKARTOVSKÁ, Alica, Welwardová - KUBANÍKOVÁ, Petra - SOKOL, Roman - FILLO, Juraj - KASÁK, Peter - BORSIG, Ľubor - TKÁČ, Ján**. Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. In Glycoconjugate Journal, 2020, vol. 37, p. 703-711. (2019: 2.197 - IF, Q3 - JCR, 0.895 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0282-0080. Dostupné na: https://doi.org/10.1007/s10719-020-09958-4

ADCA05 BIELY, Peter**. Boj s koronavírusom COVID-19 z hľadiska glykobiológie. In Chemické Listy, 2020, vol. 114, p. 493-495. (2019: 0.390 - IF, Q4 - JCR, 0.183 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0009-2770.

ADCA06 BUČKO, Marek** - GEMEINER, Peter - KRAJČOVIČ, Tomáš - HAKAROVÁ, Marietta - CHORVÁT, Dušan Jr. - MARČEK CHORVÁTOVÁ, Alžbeta - LACÍK, Igor - RUDROFF, Florian - MIHOVILOVIČ, Marko D. Immobilized cell physiology imaging and stabilization of enzyme cascade reaction using recombinant cells Escherichia coli entrapped in polyelectrolyte complex beads by jet break-up encapsulator. In Catalysts, 2020, vol. 10, art. no. 1288, [12] p. (2019: 3.520 - IF, Q2 - JCR, 0.722 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN

2073-4344. Dostupné na: https://doi.org/10.3390/catal10111288

ADCA07 BURYI, Maksym** - BABIN, Vladimír - CHANG, Yu Ying - REMEŠ, Zdeněk - MIČOVÁ, Júlia - ŠIMEK, Daniel. Influence of precursor age on defect states in ZnO nanorods. In Applied Surface Science, 2020, vol. 525, art. no. 146448 [8] p. (2019: 6.182 - IF, Q1 - JCR, 1.230 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2020.146448

ADCA08 CAPEK, Peter** - MATULOVÁ, Mária - ŠUTOVSKÁ, Martina - BARBORÍKOVÁ, Jana - MOLITORISOVÁ, Miroslava - KAZIMIEROVÁ, Ivana. Chlorella vulgaris α-L-arabino-α-L-rhamno-α,β-D-galactan structure and mechanisms of its anti-inflammatory and anti-remodelling effects. In International Journal of Biological Macromolecules, 2020, vol. 162, p. 188-198. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2020.06.151

ADCA09 CAPEK, Peter** - ŠUTOVSKÁ, Martina** - BARBORÍKOVÁ, Jana - KAZIMIEROVÁ, Ivana - FRAŇOVÁ, Soňa - KOPÁČOVÁ, Mária. Structural characterization and anti-asthmatic effect of α-L-arabino(4-O-methyl-α-D-glucurono)-β-D-xylan from the roots of Rudbeckia fulgida. In International Journal of Biological Macromolecules, 2020, vol. 165, part A, p. 842-848. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2020.09.246

ADCA10 DARVASIOVÁ, Denisa - ŠORAL, Michal - PUŠKÁROVÁ, Ingrid - DVORANOVÁ, Dana - VÉNOSOVÁ, Barbora - BUČINSKÝ, Lukáš - ZALIBERA, Michal - DUJNIČ, Viera, Hrivnáková - DOBROV, Anatoly A. - SCHWALBE, Matthias - ARION, Vladimír - RAPTA, Peter**. Spectroelectrochemical, photochemical and theoretical study of octaazamacrocyclic nickel(II) complexes exhibiting unusual solvent-dependent deprotonation of methylene group. In Electrochimica Acta, 2019, vol. 326, art. no. 135006 [13] p. (2018: 5.383 - IF, Q1 - JCR, 1.365 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0013-4686. Dostupné na: https://doi.org/10.1016/j.electacta.2019.135006

ADCA11 DŽUBÁK, Petr - GURSKÁ, Soňa - BOGDANOVÁ, Kateřina - UHRÍKOVÁ, Daniela - KANJAKOVÁ, Nina - COMBET, Sophie - KLUNDA, Tomáš - KOLÁŘ, Milan - HAJDÚCH, Marian** - POLÁKOVÁ, Monika**. Antimicrobial and cytotoxic activity of (thio)alkyl hexopyranosides, nonionic glycolipid mimetics. In Carbohydrate Research, 2020, vol. 488, art. no. 107905 [11] p. (2019: 1.841 - IF, Q2 - JCR, 0.501 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2019.107905

ADCA12 HOMOLA, Tomáš** - LORENCOVÁ, Lenka - PARRÁKOVÁ, Lucia - GEMEINER, Pavol - TKÁČ, Ján. Graphene oxide sensors of high sensitivity fabricated using cold atmospheric-pressure hydrogen plasma for use in the detection of small organic molecules. In Journal of Applied Physics, 2020, vol. 128, art. no. 243301 [12] p. (2019: 2.286 - IF, Q2 - JCR, 0.728 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0021-8979. Dostupné na: https://doi.org/10.1063/5.0028168

ADCA13 HOUSER, Josef - KOZMON, Stanislav - MISHRA, Deepti - HAMMEROVÁ, Zuzana - WIMMEROVÁ, Michaea - KOČA, Jaroslav**. The CH–π interaction in protein–carbohydrate binding: Bioinformatics and in vitro quantification. In Chemistry - A European Journal, 2020, vol. 26, p. 10769-10780. (2019: 4.857 - IF, Q1 - JCR, 1.681 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0947-6539. Dostupné na: https://doi.org/10.1002/chem.202000593

ADCA14 HRICOVÍNI, Michal - ASHER, James Richard - HRICOVÍNI, Miloš**. Photochemical anti-syn isomerization around the -N-N=bond in heterocyclic imines.

In RSC Advances, 2020, vol. 10, no. 10, p. 5540-5550. (2019: 3.119 - IF, Q2 - JCR, 0.736 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2046-2069. Dostupné na: https://doi.org/10.1039/c9ra10730d

ADCA15 HRICOVÍNI, Michal - GEMBICKÝ, Milan - HRICOVÍNIOVÁ, Zuzana - MONCOĽ, Ján**. The crystal structure and solution behaviour of decyl- and dodecyl α-D-lyxopyranoside: X-ray, NMR, computational and Hirshfeld surface analysis. In Journal of Molecular Structure, 2020, vol. 1202, art. no. 127348 [8] p. (2019: 2.463 - IF, Q3 - JCR, 0.450 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-2860. Dostupné na: https://doi.org/10.1016/j.molstruc.2019.127348

ADCA16 HRICOVÍNIOVÁ, Jana - ŠEVČOVIČOVÁ, Andrea - HRICOVÍNIOVÁ, Zuzana**. Evaluation of the genotoxic, DNA-protective and antioxidant profile of synthetic alkyl gallates and gallotannins using in vitro assays. In Toxicology in Vitro, 2020, vol. 65, art. no. 104789 [11] p. (2019: 2.959 - IF, Q2 - JCR, 0.799 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0887-2333. Dostupné na: https://doi.org/10.1016/j.tiv.2020.

ADCA17 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - HÍREŠ, Michal - JÁNÉ, Eduard - LORENCOVÁ, Lenka - VIKARTOVSKÁ, Alica, Welwardová - TANVIR, Aisha - KASÁK, Peter - TKÁČ, Ján**. Ultrasensitive $Ti_3C_2T_x$ MXene/chitosan nanocomposite-based amperometric biosensor for detection of potential prostate cancer marker in urine samples. In Processes, 2020, vol. 8, art. no. 580 [10] p. (2019: 2.753 - IF, Q2 - JCR, 0.403 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2227-9717. Dostupné na: https://doi.org/10.3390/PR8050580

ADCA18 HURAN, Jozef** - BALALYKIN, Nikolay - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - NOZDRIN, Mikhail A. - KOBZEV, Alexander P. - KOVÁČOVÁ, Eva. Very thin N-doped nanostructured carbon films on quartz and sapphire substrate: Photoelectron emission properties. In Thin Solid Films, 2020, vol. 709, art.no. 138200, [6] p. (2019: 2.030 - IF, Q3 - JCR, 0.513 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0040-6090. Dostupné na: https://doi.org/10.1016/j.tsf.2020.138200

ADCA19 JAKUBČINOVÁ, Jana - KOZMON, Stanislav - ŠESTÁK, Sergej - BARÁTH, Marek**. Novel 1-O-sulfono-α-D-fructofuranosyl sulfones as possible inhibitors of human GnT-I enzyme. In ChemistrySelect, 2020, vol. 5, p. 4967-4972. (2019: 1.811 - IF, Q3 - JCR, 0.445 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2365-6549. Dostupné na: https://doi.org/10.1002/slct.202001098

ADCA20 JANOŠ, Pavel - TVAROŠKA, Igor - DELLAGO, Cristoph - KOČA, Jaroslav**. Catalytic mechanism of processive GlfT2: Transition path sampling investigation of substrate translocation. In ACS Omega, 2020, vol. 5, p. 21374-21384. (2019: 2.870 - IF, Q2 - JCR, 0.767 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2470-1343. Dostupné na: https://doi.org/10.1021/acsomega.0c01434

ADCA21 JÁRVÁS, Gábor** - GUTTMAN, András - MIĘKUS, Natalia - BĄCZEK, Tomáš - JEONG, Sunkyung - CHUNG, Doo Soo - PÄTOPRSTÝ, Vladimír - MASÁR, Marián - HUTTA, Milan - DATINSKÁ, Vladimíra - FORET, František. Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices. In Trends in Analytical Chemistry, 2020, vol. 122, art. no. 115702 [9] p. (2019: 9.801 - IF, Q1 - JCR, 2.153 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0165-9936. Dostupné na: https://doi.org/10.1016/j.trac.2019.115702

ADCA22 JURČÍK, Ján* - SIVÁKOVÁ, Barbara* - ČIPÁKOVÁ, Ingrid* - SELICKÝ, Tomáš* - STUPEŇOVÁ, Erika - JURČÍK, Matúš - OSADSKÁ, Michaela - BARÁTH, Peter - ČIPÁK, Ľuboš**. Phosphoproteomics meets chemical genetics:

approaches for global mapping and deciphering the phosphoproteome. In International Journal of Molecular Sciences, 2020, vol. 21, no. 20, art. no. 7637 [19] p. (2019: 4.556 - IF, Q1 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms21207637

ADCA23 KÓŇA, Juraj**. How inverting β-1,4-galactosyltransferase-1 can quench a high charge of the by-product UDP3− in catalysis: a QM/MM study of enzymatic reaction with native and UDP-5' thio galactose substrates. In Organic and Biomolecular Chemistry, 2020, vol. 18, p. 7585-7596. (2019: 3.412 - IF, Q1 - JCR, 0.969 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1477-0520. Dostupné na: https://doi.org/10.1039/d0ob01490g

ADCA24 KUČEROVÁ, Danica, Richterová - LABANCOVÁ, Eva - VIVODOVÁ, Zuzana, Vatehová - KOLLÁROVÁ, Karin**. The modulation of ion homeostasis by silicon in cadmium treated poplar callus cells. In Environmental Science and Pollution Research, 2020, vol. 27, p. 2857-2867. (2019: 3.056 - IF, Q2 - JCR, 0.788 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0944-1344. Dostupné na: https://doi.org/10.1007/s11356-019-07054-1

ADCA25 KVĚTOŇ, Filip - BLŠÁKOVÁ, Anna - KASÁK, Peter - TKÁČ, Ján**. Glycan nanobiosensors. In Nanomaterials, 2020, vol. 10, art. no. 1406 [29] p. (2019: 4.324 - IF, Q2 - JCR, 0.858 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2079-4991. Dostupné na: https://doi.org/10.3390/nano10071406

ADCA26 LABANCOVÁ, Eva - VIVODOVÁ, Zuzana, Vatehová - KUČEROVÁ, Danica, Richterová - LIŠKOVÁ, Desana - KOLLÁROVÁ, Karin**. The cadmium tolerance development of poplar callus is influenced by silicon. In Ecotoxicology, 2020, vol. 29, p. 987-1002. (2019: 2.535 - IF, Q2 - JCR, 0.764 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0963-9292. Dostupné na: https://doi.org/10.1007/s10646-020-02242-z

ADCA27 LORENCOVÁ, Lenka - BERTÓK, Tomáš - BERTÓKOVÁ, Anikó, Illésová - PINKOVÁ GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - VIKARTOVSKÁ, Alica, Welwardová - KASÁK, Peter** - TKÁČ, Ján**. Exosomes as a source of cancer biomarkers: Advances in electrochemical biosensing of exosomes. In ChemElectroChem, 2020, vol. 7, p. 1956-1973. (2019: 4.154 - IF, Q2 - JCR, 1.149 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2196-0216. Dostupné na: https://doi.org/10.1002/celc.202000075

ADCA28 LORENCOVÁ, Lenka - PINKOVÁ GAJDOŠOVÁ, Veronika - HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - JERIGOVÁ, Monika - VELIČ, Dušan - SOBOLČIAK, Patrik - KRUPA, Igor - KASÁK, Peter** - TKÁČ, Ján**. Electrochemical investigation of interfacial properties of $Ti_3C_2T_x$ MXene modified by aryldiazonium betaine derivatives. In Frontiers in Chemistry, 2020, vol. 8, art. no. 553 [10] p. (2019: 3.693 - IF, Q2 - JCR, 0.852 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2296-2646. Dostupné na: https://doi.org/10.3389/fchem.2020.00553

ADCA29 LUX, Alexander - LUKAČOVÁ, Zuzana - VACULÍK, Marek - ŠVUBOVÁ, Renáta - KOHANOVÁ, Jana - SOUKUP, Milan - MARTINKA, Michal - BOKOR, Boris**. Silicification of root tissues. In Plants, 2020, vol. 9, no. 1, art. no. 111 [20] p. (2019: 2.762 - IF, Q1 - JCR, 0.877 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2223-7747. Dostupné na: https://doi.org/10.3390/plants9010111

ADCA30 NEDĚLA, Vilém** - TIHLAŘÍKOVÁ, Eva - MAXA, Jiří - IMRICHOVÁ, Kamila - BUČKO, Marek - GEMEINER, Peter. Simulation-based optimisation of thermodynamic conditions in the esem for dynamical in-situ study of spherical polyelectrolyte complex particles in their native state. In Ultramicroscopy, 2020, vol.

211, art. no. 112954 [15] p. (2019: 2.452 - IF, Q2 - JCR, 1.489 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0304-3991. Dostupné na: https://doi.org/10.1016/j.ultramic.2020.112954

ADCA31 NONAKA, Miki - YASUKAWA, Chisato - AOKI, Shoko - ITAKURA, Masateru - WILLFÖR, Stefan - CAPEK, Peter - SHOSEYOV, Oded - TSUBOKURA, Masaharu - BABA, Keil´ichi - KAIDA, Rumi - TAJI, Teruaki - SAKATA, Yoichi - HAYASHI, Takahisa**. Intake of radionuclides in the trees of Fukushima forests. 4. Binding of radioiodine to xyloglucan. In Forests, 2020, vol. 11, art. no. 957 [10] p. (2019: 2.221 - IF, Q1 - JCR, 0.652 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1999-4907. Dostupné na: https://doi.org/10.3390/f11090957

ADCA32 PAWLACZYK-GRAJA, Izabela** - BALICKI, Sebastian - ZIEWIECKI, Rafał - CAPEK, Peter - MATULOVÁ, Mária. New isolation process for bioactive food fiber from wild strawberry leaf. In Biochemical Engineering Journal, 2020, vol. 161, art. no. 107639 [10] p. (2019: 3.475 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1369-703X. Dostupné na: https://doi.org/10.1016/j.bej.2020.107639

ADCA33 PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOGIKH, Dmitry - ARGENTOVA, Victoria** - KATRLÍK, Jaroslav**. Influence of media composition on recombinant monoclonal IgA1 glycosylation analysed by lectin-based protein microarray and MALDI-MS. In Journal of Biotechnology, 2020, vol. 314-315, p. 34-40. (2019: 3.503 - IF, Q2 - JCR, 0.992 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2020.03.009

ADCA34 PETRÍK, Igor** - JANÁK, Marian - KLONOWSKA, I. - MAJKA, Jarosław - FROITZHEIM, Nikolaus - YOSHIDA, Kenji - SASINKOVÁ, Vlasta - KONEČNÝ, Patrik - VACULOVIČ, T. Monazite behaviour during metamorphic evolution of a diamond-bearing gneiss: a case study from the Seve Nappe Complex, Scandinavian Caledonides. In Journal of Petrology, 2019, vol. 60, no. 9, p. 1773-1796. (2018: 3.380 - IF, Q2 - JCR, 2.435 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-3530. Dostupné na: https://doi.org/10.1093/petrology/egz051

ADCA35 PIEŠŤANSKÝ, Juraj - BARÁTH, Peter - MAJEROVÁ, Petra - GALBA, Jaroslav - MIKUŠ, Peter - KOVÁČECH, Branislav - KOVÁČ, Andrej**. A simple and rapid LC-MS/MS and CE-MS/MS analytical strategy forthe determination of therapeutic peptides in modern immunotherapeutics and biopharmaceutics. In Journal of Pharmaceutical and Biomedical Analysis, 2020, vol. 189, art. no. 113449 [12] p. (2019: 3.209 - IF, Q2 - JCR, 0.795 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0731-7085. Dostupné na: https://doi.org/10.1016/j.jpba.2020.113449

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ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

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ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

ADFB01 NEMČOVIČ, Marek** - PAKANOVÁ, Zuzana - ŠALINGOVÁ, Anna - ŠEBOVÁ, Claudia - OSTROŽLÍKOVÁ, Mária - MUCHA, Ján. Nové prístupy k diagnostike lyzozómových ochorení na báze stanovenia voľných oligosacharidov v moči. In Newslab: Časopis laboratórnej medicíny, 2020, roč. 11, č. 1, p. 24-26. ISSN 1338-9661.

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ADMA01 BARALIĆ, Marko - GLIGORIJEVIĆ, Nikola - BRKOVIĆ, Voin - KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - ŠUNDERIĆ, Miloš - MILJUŠ, Goran - PENEZIĆ, Ana - DOBRIJEVIĆ, Zorana - LAUŠEVIĆ, Mirjana - NEDIĆ, Olgica - ROBAJAC, Dragana**. Fibrinogen fucosylation as a prognostic marker of end-stage renal disease in patients on peritoneal dialysis. In Biomolecules, 2020, vol. 10, art. no. 1165 [12] p. (2019: 4.082 - IF, Q2 - JCR, 1.614 - SJR, Q1 - SJR). ISSN 2218-273X. Dostupné na: https://doi.org/10.3390/biom10081165

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ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMB01 BALALYKIN, Nikolay I. - HURAN, Jozef - NOZDRIN, Mikhail A.** - SASINKOVÁ, Vlasta - KOVÁČOVÁ, Eva - KOBZEV, A.P. - SHIRKOV, G.D. Very thin carbon-based films for transmissive photocathodes. In Journal of Physics: Conference Series : 21st International Summer School on Vacuum, Electron and Ion Technologies, 2020, vol. 1492, art. no. 012034. (2019: 0.227 - SJR, Q3 - SJR). ISSN 1742-6588. Dostupné na: https://doi.org/10.1088/1742-6596/1492/1/012034

ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNA01 PAKANOVÁ, Zuzana** - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - MUCHA, Ján - ŠALINGOVÁ, Anna - ŠEBOVÁ, Claudia - JURÍČKOVÁ, Katarína - BARÁTH, Peter. Inherited metabolic disorders of glycoconjugate metabolism. In Bratislava Medical Journal, 2020, vol. 121, p. 760-766. (2019: 1.200 - IF, Q3 - JCR, 0.340 - SJR, Q3 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2020_124

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AEDA Vedecké práce v domácich recenzovaných zborníkoch, kratšie kapitoly/state v domácich monografiách alebo VŠ učebniciach

AEDA01 PETRÁŠ, Martin - ŠARLINOVÁ, Miroslava - ŠKORVANOVÁ, Michaela - MUŠÁK, Ľudovít - MATÁKOVÁ, Tatiana - HÁNYŠOVÁ, Sandra, Bieliková - SKALIČANOVÁ, Michaela - HAMADA, Ľuboš - HALAŠOVÁ, Erika. Využitie anti-PD-1/PD-L1 imunoterapie pri karcinóme pľúc. In KOVALSKÁ, Mária - CÍGEROVÁ, Veronika - ADAMKOV, Marian (eds.). Recenzenti: Erika Halašová, Ľuboš Danišovič. Recenzovaný zborník prác: Nové trendy a perspektívy v histológii VI. - Martin : Jesseniova lekárska fakulta v Martine, Univerzita Komenského v Bratislave, 2020, s. 127-131. ISBN 978-80-8187-085-9.

AEMA Abstrakty vedeckých prác v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

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AFH06 HAKAROVÁ, Marietta - BUČKO, Marek - KRAJČOVIČ, Tomáš - GEMEINER, Peter. Produkcia bioaktívnych látok imobilizovanými celobunkovými biokatalyzátormi. In Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1872. ISBN 978-80-972360-6-9.

AFH07 HAKAROVÁ, Marietta - BUČKO, Marek - KRAJČOVIČ, Tomáš - GEMEINER, Peter. Prístrojovo riadené výkonné techniky pre imobilizáciu celobunkových biokatalyzátorov. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstract č. 1873. ISBN 978-80-972360-6-9.

AFH08 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Detekcia glykoproteínu ZAG ako biomarkera rakoviny prostaty pomocou imunotestov s laterálnym prietokom a glykoprofilácie. In REHÁKOVÁ, Milena - ORAVEC, Juraj (eds.). Elektronický zborník recenzovaných príspevkov: 22. Celoslovenská študentská vedecká konferencia s medzinárodnou účasťou: Chémia a technológie pre život. Bratislava, 25. 11. 2020. - Bratislava : Fakulta chemickej a potravinárskej technológie STU v Bratislave, 2020, p. 77-78. ISBN 978-80-8208-042-4.

AFH09 HRONČEKOVÁ, Štefánia - BERTÓK, Tomáš - TKÁČ, Ján. Konštrukcia nanoštrukturovaného biosenzora na detekciu potenciálneho biomarkera rakoviny prostaty - sarkozínu. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1916. ISBN 978-80-972360-6-9.

AFH10 KALNÍK, Martin - ZAJIČKOVÁ, Mária, Spišáková - ŠESTÁK, Sergej - KOÓŠ, Miroslav - BELLA, Maroš. Synthesis of new bioactive mannostatin A analogues. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna

konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1886. ISBN 978-80-972360-6-9.

AFH11 KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KATRLÍK, Jaroslav. Glycomic analysis of children serum samples with ADHD disorder using lectin-based microarray and MALDI-TOF-MS methods. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts, November 11, 2020, Nitra, Slovakia. - Nitra : Slovak University of Agriculture in Nitra, 2020, p. 30. ISBN 978-80-552-2242-4.

AFH12 KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KIM, Seonghun - KATRLÍK, Jaroslav. Glykoprofilovanie sér detí s poruchou aktivity a pozornosti (ADHD) microarray metódou založenou na lektínoch a hmotnostnou spektrometriou. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1990. ISBN 978-80-972360-6-9.

AFH13 VALÁRIKOVÁ, Jana - ČÍŽOVÁ, Alžbeta - RAČKOVÁ, Lucia - BYSTRICKÝ, Slavomír. Anti-Staphylococcal activity of quaternized mannan from the yeast Candida albicans. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1896. ISBN 978-80-972360-6-9.

AFH14 PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - PANČÍK, Filip - SIVÁKOVÁ, Barbara - BRNOLIAKOVÁ, Zuzana - BARÁTH, Peter. The effect of serum N-glycan derivatization in reflectron positive MALDI mass spectra. In PREVEDA : interaktívna konferencia mladých vedcov 2020. Book of abstracts. - Bratislava : Občianske združenie Preveda, 2020, abstract no. 1961. ISBN 978-80-972360-6-9.

AFH15 PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - PANČÍK, Filip - SIVÁKOVÁ, Barbara - BRNOLIAKOVÁ, Zuzana - BARÁTH, Peter. The effect of serum N-glycan derivatization in reflectron positive MALDI mass spectra. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1961. ISBN 978-80-972360-6-9.

AFH16 PANČÍK, Filip - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - MATULOVÁ, Mária. Use of spectral methods for diagnostics of disorders of glycoconjugate metabolism. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts, November 11, 2020, Nitra, Slovakia. - Nitra : Slovak University of Agriculture in Nitra, 2020, p. 15. ISBN 978-80-552-2242-4.

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AFH18 PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dmitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Application of lectin-based microarray and MALDI-MS technique for

glycosylation analysis of recombinant monoclonal IgA antibodies. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra with international participation. 11the November 2020, Nitra, Slovak Republic : proceedings of abstracts. - Nitra : Slovak University of Agriculture in Nitra, 2020, p. 34. ISBN 978-80-552-2242-4. (Scientific conference of PhD. Students)

AFH19 PAŽITNÁ, Lucia - NEMČOVIČ, Marek - PAKANOVÁ, Zuzana - BARÁTH, Peter - ALIEV, Teimur - DOLGIKH, Dmitry - ARGENTOVA, Victoria - KATRLÍK, Jaroslav. Analýza glykánov rekombinantných IgA microarray metódou založenou na lektínoch a technikou MALDI-MS. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 2007. ISBN 978-80-972360-6-9.

AFH20 PINKOVÁ GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - TKÁČ, Ján. Protein glycoprofiling as advanced tool for breast cancer diagnostics. In TÓTHOVÁ, Monika - LIDIKOVÁ, Judita - CANDRÁKOVÁ, Kristína - HOLLÝ, Dominik (eds.). Scientific Conference of PhD. Students of FAFR, FBFS and FHLE SUA in Nitra – Proceedings of Abstracts : 11th November 2020. - Nitra : Slovak University of Agriculture in Nitra, 2020, p. 35. ISBN 978-80-552-2242-4.

AFH21 PINKOVÁ GAJDOŠOVÁ, Veronika - LORENCOVÁ, Lenka - PAŽITNÁ, Lucia - KATRLÍK, Jaroslav - TKÁČ, Ján. Glykoprofilácia proteínov ako pokročilý prístup pre diagnostiku rakoviny prsníka. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1877. ISBN 978-80-972360-6-9.

AFH22 PŁOSKA, Justyna - STASIAK-RÓŻAŃSKA, Lidia. Chemical and physicochemical mutagenization as a factor determinating the phenotype changes of selected biochemical features of Komagataeibacter xylinus bacteria. In Ferko Miroslav, Farkaš Pavol (eds.). Zborník abstraktov 2020: Interaktívna konferencia mladých vedcov 2020. Banská Bystrica, 1.5. - 1.6.2020. - Banská Bystrica : Občianske združenie PREVEDA, 2020, abstrakt č. 1893. ISBN 978-80-972360-6-9.

AFK Postery zo zahraničných konferencií

AFK01 HORVÁTHOVÁ, Eva - MASTIHUBOVÁ, Mária - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - ANTALOVÁ, V. - MASTIHUBA, Vladimír. Does various structure derivation of salidroside molecule affect the activity of derivatives in cell-free tests and on human cells cutured in vitro? In Interdisciplinary Toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2020, vol. 13, suppl. 1, p. 48-49. (2019: 0.337 - SJR, Q3 - SJR). ISSN 1337-6853. (TOXCON 2020 : Interdisciplinary Toxicological Conference)

BAB Odborné knižné publikácie vydané v domácich vydavateľstvách

BAB01 BIELY, Peter. Veda s anjelom. Bratislava : Veda, vydavateľstvo Slovenskej akadémie vied, 2020. 264 s. ISBN 978-80-224-1850-8

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

FAI01 PREVEDA : interaktívna konferencia mladých vedcov 2020. Book of abstracts = PREVEDA Interactive Conference of Young Scientists 2020. Editori: Miroslav

Ferko, Pavol Farkaš. Bratislava : Občianske združenie Preveda, 2020. 198 abstraktov. Dostupné na internete: <https://abstracts.preveda.sk/index.php>. ISBN 978-80-972360-6-9 (Interaktívna konferencia mladých vedcov 2020 : PREVEDA)

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 HRICOVÍNI, Michal - ASHER, James - HRICOVÍNI, Miloš. The analysis of photochemical anti-syn isomerization process across the –N–N= bond in heterocyclic imines. In ECMC 2020: 6th International Electronic Conference on Medicinal Chemistry, November 1-30, 2020. - Basel : MDPI, 2020, sciforum-03944. Dostupné na internete: <https://sciforum.net/paper/view/conference/7398>

GHG02 HRICOVÍNIOVÁ, Jana** - KOZICS, Katarína - HRICOVÍNIOVÁ, Zuzana. In vitro antioxidant, DNA-protective and cytotoxic effects of 2,3-substituted quinazolinone-derived Schiff bases. In ECMC2020 : 6th International Electronic Conference on Medicinal Chemistry, November 1-30, 2020. - Basel : MDPI, 2020. Dostupné na: https://doi.org/10.3390/ECMC2020-07394 (International Electronic Conference on Medicinal Chemistry)

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

GII01 BERTÓK, Tomáš - MACKOVÁ, Katarína. Posledné slovo budú mať mikróby. In Spektrum - Magazín Slovenskej technickej univerzity v Bratislave, 2020, č. 7-8, s. 42-43. ISSN 1336-2593.

GII02 HORVÁTHOVÁ, Ágnes - SCHUSTEROVÁ, Hana, Dudášová - STRATILOVÁ, Barbora - STRATILOVÁ, Eva - VADKERTIOVÁ, Renáta. MALDI-TOF analysis for identification and classification of yeast associated with meadow plants in Central and Western Slovakia. In Proceedings: 31st MassSpec Forum 2020, February 25-26, 2020, Vienna, Austria. Vienna: TU Wien, 2020, p07, p. 48.

GII03 CHOCHOLOVÁ, Erika, Došeková - HUCÁKOVÁ, Monika. Študentská osobnosť z vychyteného tímu. In Akadémia: Správy SAV, 2020, roč. 56, č. 1, s. 15. ISSN 0139-6307.

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GII05 KATRLÍK, Jaroslav - SOBČÁK, Peter. Neviditeľní zabijaci. In Plus 7 dní : spoločenský týždenník, 2020, č. 13, s. 46-48. ISSN 1210-2040.

GII06 LUKÁČOVÁ, Veronika - PAKANOVÁ, Zuzana - SIVÁKOVÁ, Barbara - BELLOVÁ, Jana - NEMČOVIČ, Marek - BARÁTH, Peter. Proteomic and glycomic characterization of microvesicles by mass spectrometry. In Proceedings: 31st MassSpec Forum 2020, February 25-26, 2020, Vienna, Austria. Vienna: TU Wien, 2020, p12, p. 53.

GII07 MASTIHUBA, Vladimír. Chemické horizonty - jesenný cyklus 2019. In ChemZi, 2019, roč. 15, č. 2, s. 71. ISSN 1336-7242.

GII08 PANČÍK, Filip - PAKANOVÁ, Zuzana - BARÁTH, Peter - ŠIMKOVIC, Ivan. MALDI TOF/TOF analysis of oligosaccharides from seaweed samples. In Proceedings: 31st MassSpec Forum 2020, February 25-26, 2020, Vienna, Austria. Vienna: TU Wien, 2020, p10, p. 51.

GII09 STRATILOVÁ, Barbora - ŘEHULKA, Pavel - HORVÁTHOVÁ, Ágnes - SCHUSTEROVÁ, Hana, Dudášová - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. MALDI spectra database for Culture Collection of Yeasts (CCY). In Proceedings: 31st MassSpec Forum 2020, February 25-26, 2020, Vienna, Austria. Vienna: TU Wien, 2020, p18, p. 59.

GII10 TKÁČ, Ján - PODSTUPKA, Martin. Výsledky výskumu majú namierené do

ordinácií. In Akadémia: Správy SAV, 2020, roč. 56, č. 1, s. 14-15. ISSN 0139-6307.

GII11 VADKERTIOVÁ, Renáta - VITKOVÁ, Zuzana. Vďaka kvasinkám je chlieb nadýchanejší a víno chutnejšie. In Denník N, rubrika Veda, 7. 7. 2020, s. 10-11. ISSN 1339-844X.

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Milan Polakovič (hlavný redaktor), Ján Hirsch (editorial manager). Editorial Office: Chemický ústav SAV, Bratislava. Publisher: Springer-Verlag, Heidelberg (od r. 2017). ISSN 0366-6352 (Print), 1336-9075 (Online). 12 čísiel/rok. (2019: 1.680 - IF, Q3 - JCR, 0.331 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0366-6352.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. Ing. Ladislav Petruš, DrSc.
Názov semestr. predmetu: Chémia prírodných látok (2. roč. Mgr. štúdia)
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Semestrálne cvičenia:

Ing. Matej Cvečko
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie (2. roč. Bc. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Ing. Peter Haluz
Názov semestr. predmetu: Laboratórne cvičenia z biochémie (1. roč. Ing. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Ing. Peter Haluz
Názov semestr. predmetu: Laboratórne cvičenia zo základov biochémie (2. roč. Bc. štúdia)
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie

Mgr. Jana Jakubčinová, PhD.
Názov semestr. predmetu: Cvičenia z organickej chémie (1. roč. Bc. štúdia)
Počet hodín za semester: 65
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Martin Kalník
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie I (2. roč. Bc. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Ing. Martin Kalník
Názov semestr. predmetu: Laboratórne cvičenia z organickej chémie II (2. roč. Bc. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie, Ústav organickej chémie, katalýzy a petrochémie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Laboratórium odboru I
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav

biotechnológie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Laboratórium odboru II
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Letná odborná prax
Počet hodín za semester: 80
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Semestrálny projekt II (4. roč. Ing. štúdia)
Počet hodín za semester: 52
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Vladimír Mastihuba, PhD.
Názov semestr. predmetu: Semestrálny projekt III
Počet hodín za semester: 39
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie

Ing. Filip Pančík
Názov semestr. predmetu: Fyzikálna chémia 1 (laboratórne cvičenia, 2. roč. Bc. štúdia)
Počet hodín za semester: 65
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Mgr. Barbara Sováková
Názov semestr. predmetu: Základné cvičenia z biochémie (laboratórne cvičenia, 1. roč. Bc. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Barbara Sováková
Názov semestr. predmetu: Základné cvičenia z biochémie (laboratórne cvičenia, 3. roč. Bc. štúdia)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Barbora Stratilová
Názov semestr. predmetu: Laboratórne cvičenia - Fyzikálna chémia 1 (2. roč. Bc. štúdia)
Počet hodín za semester: 65
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Semináre:

Mgr. Danica Kučerová, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín 1 (3. roč., štud. odbor Biológia, štud. program Fyziológia rastlín)
Počet hodín za semester: 26

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

Mgr. Eva Labancová
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín 1 (3. roč., štud. odbor učiteľstvo - biológia/angličtina)
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Mgr. Eva Labancová
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín 2 (3. roč., štud. odbor Biológia, štud. program Fyziológia rastlín)
Počet hodín za semester: 18
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyziológie rastlín

Ing. Eva Stratilová, PhD.
Názov semestr. predmetu: Diplomový seminár (2. roč. Ing. štúdia)
Počet hodín za semester: 100
Názov katedry a vysokej školy: Fakulta chemická, Vysoké učení technické v Brně, VUT Brno, Česko, Ústav chemie potravin a biotechnologií

Terénne cvičenia:

– – –

Individuálne prednášky:

Ing. Ján Tkáč, DrSc.
Názov semestr. predmetu: Citlivá analýza glykánov v diagnostike (v rámci semestrálneho predmetu Vybrané kapitoly z biochémie a molekulárnej biológie, 2. roč. Mgr. štúdia)
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

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**
Česko					Marek Bučko	5
					Pavol Farkaš	1
					Stanislav Kozmon	2
					Andrea Schenkmayerová	366
					Ján Tkáč	1
Francúzsko					Soňa Garajová	366
Rakúsko	Romana Köszagová	153			Juvissan Medalith Aguedo Ariza	32
Počet vyslaní spolu	**1**	**153**			**7**	**773**

(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**
Počet prijatí spolu	–	–	–	–	–	–

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Česko	72. Sjezd chemiků	Juvissan Medalith Aguedo Ariza	4
		Anna Blšáková	4
		Filip Květoň	4
		Lenka Lorencová	4
		Veronika Pinková Gajdošová	4
		Ján Tkáč	1
Rakúsko	MassSpec 2020	Ágnes Horváthová	2
		Marek Nemčovič	2
		Zuzana Pakanová	2
		Filip Pančík	2
		Barbora Stratilová	2
Španielsko	COST CA18224	Mária Mastihubová	4
Spolu	**3**	**12**	**35**

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

Skratky použité v tabuľke C:

COST CA18224 - 1st Management Meeting COST CA18224
MassSpec 2020 - 31st MassSpec Forum Vienna

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ	Názov	Miesto zverejnenia	Dátum / počet za rok
Ing. Tomáš Bertók, PhD.	–	IN	Navštív svoju školu - spoznaj svojho vedca	Noc výskumníkov 2020. https://www.nocvyskumnikov.sk/program/mesto-navstiv-svoju-skolu-spoznaj-svojho-vedca.html	27.11.2020
Ing. Tomáš Bertók, PhD.	–	IN	Stojíme na prahu nesmrteľnosti?	In Vivo magazín, sekcia Evolúcia. https://invivomagazin.sk/stojime-na-prahu-nesmrtelnosti_857.html	12.6.2020
Ing. Tomáš Bertók, PhD.	–	IN	Úvod do nanotechnológií	In Vivo magazín, sekcia Veda. https://invivomagazin.sk/new/uvod-do-nanotechnologii_865.html	11.8.2020
Ing. Tomáš Bertók, PhD.	Katarína Macková	TL	Posledné slovo budú mať mikróby	Spektrum - Magazín Slovenskej technickej univerzity v Bratislave, 2020, no. 7-8, s. 42-43. ISSN 1336-2593	2020
Ing. Marek Bučko, PhD.	Vilém Nědela, Martina Rasch	RO	Brněnští vědci představili unikátní elektronový mikroskop, který umí zobrazit kapsule s živými buňkami	Český rozhlas, mujRozhlas, stanice Plus, magazín Leonardo, 12:33 hod. https://www.mujrozhlas.cz/magazin-leonardo/brnenstivedci-predstavili-unikatni-elektronovy-mikroskop-ktery-umi-zobrazit	28.6.2020
Ing. Pavol Farkaš, PhD.	–	IN	Mladí vedci sa zomkli pre vedu	Quark: Tlačové správy. https://www.quark.sk/mladi-vedci-sa-zomkli-pre-vedu/	20.5.2020
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	IN	Cena Preveda pre Katarínu Bérešovú a Luciu Baďurovú	Aktuality SAV. https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=8943	26.6.2020
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	IN	Mená víťazov ceny Preveda spoznáme netradičným spôsobom	https://www.reporter24.sk/2020/06/23/mena-vitazov-ceny-preveda-spoznamenetradicnym-sposobom/	23.6.2020
Ing. Pavol Farkaš, PhD.	Miroslav Ferko	IN	Mladí vedci sa zomkli pre vedu	Aktuality SAV. https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=8870	19.5.2020
Mgr. Erika Chocholová	Gabriela Bachárová	IN	Úspešná mladá vedkyňa Erika Chocholová: Rakovinu chcem zistiť z krvi	Portál Ahojmama.sk, sekcia Články. https://ahojmama.pravda.sk/clanky/rozhovor-uspesna-mlada-vedkyna-erika-chocholo/12385-clanok.html	13.2.2020
Mgr. Erika Chocholová	Monika Hucáková	TL	Študentská osobnosť z vychyteného tímu	Akadémia: Správy SAV, 2020, roč. 56, č. 1, s. 15. ISSN 0139-6307	2020

Mgr. Erika Chocholová	Monika Hucáková, Martin Bystriansky, Vlado Šimíček	IN	Študentská osobnosť Slovenska: Vďaka vede som stále zvedavým dieťaťom	Portál Veda na dosah, sekcia Články, https://vedanadosah.cvtisr.sk/studentska-osobnost-slovenska-vdaka-vede-som-stale-zvedavym-dietatom	5.2.2020
Ing. Jaroslav Katrlík, PhD.	Andrea Nozdrovická	IN	Analýza glykoforiem proteínov pomáha diagnostikovať ochorenia	Aktuality SAV. https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=9013	28.8.2020
Ing. Jaroslav Katrlík, PhD.	Andrea Nozdrovická, Katarína Gáliková	IN	Cenu SAV za výsledky medzinárodnej spolupráce si prevzal kolektív z Chemického ústavu SAV	Aktuality SAV. https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=8982	28.7.2020
Ing. Jaroslav Katrlík, PhD.	Martin Podstupka	TL	Diagnózu možno čítať z cukrov	Akadémia: Správy SAV, 2020, roč. 56, č. 4, s. 6-7. ISSN 0139-6307	2020
Ing. Jaroslav Katrlík, PhD.	Peter Sobčák	TL	Neviditeľní zabijaci	Plus 7 Dní, 2020, č. 13, s. 46-48. ISSN 1210-2040	2020
Ing. Jaroslav Katrlík, PhD.	Rastislav Šimášek	RO	Výskum sacharidov na pôde Chemického ústavu SAV	RTVS, Rádio Devín, relácia Akadémia, 17:00 hod. https://www.rtvs.sk/radio/archiv/11309/1422303	26.9.2020
Ing. Miroslav Kóš, DrSc.	–	IN	Študentskou osobnosťou Slovenska je Erika Chocholová z CHÚ SAV	Aktuality SAV. https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=8650	10.1.2020
Ing. Miroslav Kóš, DrSc.	Ján Mucha, Mária Šedivá	IN	Chemický ústav SAV sa aktívne zapojil do boja s COVID-19	Aktuality SAV. https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=8864	13.5.2020
Ing. Miroslav Kóš, DrSc.	Otakar Horák, Radovan Šebesta, Martin Putala, Peter Szolcsányi	IN	Chemické databázy, o ktoré vedci prišli, sú nenahraditeľné. Problém sa týka stoviek vedcov a tisícov študentov	Denník N, rubrika Veda. https://dennikn.sk/1761185/stat-nema-na-chemicke-databazy-vedci-nemozu-pracovat-citim-sa-ako-slepy-na-hubach-vravi-chemik/?ref=list	19.2.2020
Ing. Filip Květoň, PhD.	–	IN	Sacharidy sú neoddeliteľnou súčasťou imunitného systému	Bratislavský kraj, rubrika Zdravie. https://bratislavskykraj.sk/sacharidy-su-neoddelitelnou-sucastou-imunitneho-systemu/	27.12.2020
Ing. Filip Květoň, PhD.	–	IN	Science Slam SAV 1: Ako vie cukor zachrániť životy a odhaliť veľké ochorenia	YouTube. https://www.youtube.com/watch?v=m4wNZyUbB1g	13.2.2020
Ing. Filip Květoň, PhD.	Monika Tináková	IN	Cukor nielen na povrchu koláčov	Aktuality SAV. https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=9258	23.12.2020
prof. RNDr.	Mária Babinská	RO	Atlas zelenej krásy - fialka 1	RTVS, Rádio Regina Západ, 9:39 hod.	18.4.2020

Alexander Lux, CSc.				https://reginazapad.rtvs.sk/relacie-a-rubriky/atlas-zelenej-krasy/222732/atlas-zelenej-krasy-fialka	
Ing. Vladimír Mastihuba, PhD.	–	TL	Chemické horizonty - jesenný cyklus 2019	ChemZi, 2019, roč. 15, č. 2, s. 71. ISSN 1336-7242	2020
RNDr. Ján Mucha, CSc.	Mária Šedivá, Miroslav Kóš	IN	Prezentácia ddPCR - vysokoúčinnej a spoľahlivej metódy diagnostikovania SARS-CoV-2	Aktuality SAV. https://www.sav.sk/index.php?doc=services-news&source_no=20&news_no=8988	3.8.2020
Ing. Vladimír Pätoprstý, PhD.	–	EX	Prezentácia infraštruktúry a analytických metód dostupných na Chemickom ústave SAV študentom a pedagógom PriF UK (2. ročník Bc. štúdia odbor Chémia a Biochémia, 19 študentov a 2 pedagógovia)	Oddelenie analytickej chémie, CHÚ SAV, Bratislava	12.2.2020
Ing. Hana Schusterová, PhD.	–	TL	Culture Collection of Yeasts, Institute of Chemistry, Slovak Academy of Sciences, Bratislava, Slovakia	Yeast Newsletter, 2020, vol. LXIX, No. 1, p. 7. ISSN 0513-5222	2020
Ing. Ján Tkáč, DrSc.	Gregor Mareš	TV	Experiment: Je diagnostika chorôb nepresná?	RTVS, relácia Experiment: Budúcnosť prichádza už dnes. Talk show o vede s Gregorom Marešom, 20:10 hod. https://www.rtvs.sk/televizia/archiv/15377/214258	20.2.2020
Ing. Ján Tkáč, DrSc.	Martin Podstupka	TL	Výsledky výskumu majú namierené do ordinácií	Akadémia: Správy SAV, 2020, roč. 56, č. 1, s. 14-15. ISSN 0139-6307	2020
Ing. Ján Tkáč, DrSc.	Miroslav Miklas	IN	Rakovinu odhalia z kvapky krvi: Slováci už vyvinuli unikátny test!	Plus JEDEN DEŇ, sekcia Rady a tipy. https://www1.pluska.sk/rady-a-tipy/slovenski-vedci-vyvijaju-unikat-test-ktory-odhali-rakovinu-kvapky-krvi	7.10.2020
Ing. Ján Tkáč, DrSc.	Ondrej Podstupka	IN	Ján Tkáč: Do roka by sme mohli mať nový test na rakovinu	Sme.sk, sekcia Tech. https://tech.sme.sk/c/22405293/jan-tkac-do-roka-by-sme-mohli-mat-novy-test-na-rakovinu.html	15.5.2020
Ing. Ján Tkáč, DrSc.	Zuzana Vitková	IN	Chemik Ján Tkáč vyvíja test na rakovinu prostaty, aby sa ľudia vyhli nepríjemnej biopsii	Podcast Denníka N, sekcia Rozhovory. https://dennikn.sk/1901967/chemik-jan-tkac-vyvija-test-na-rakovinu-prostaty-aby-sa-ludia-vyhli-neprijemnej-biopsii/	21.5.2020
Ing. Renáta Vadkertiová, PhD.	Zuzana Vitková	TL	Vďaka kvasinkám je chlieb nadýchanejší a víno chutnejšie	Denník N, rubrika Veda, s. 10-11. ISSN 1339-844X	7.7.2020

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

Ohlasy (citácie):

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

AAA01 GEMEINER, Peter. Enzyme Engineering : Immobilized Biosystems. Chichester, Bratislava : Ellis Horwood, Alfa Publisher, 1992. ISBN 0132782278

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1. [1.1] RESHETILOV, Anatoly - PLEKHANOVA, Yulia - TARASOV, Sergei - TIKHONENKO, Sergei - DUBROVSKY, Alexey - KIM, Alexander - KASHIN, Vadim - MACHULIN, Andrey - WANG, Gou-Jen - KOLESOV, Vladimir - KUZNETSOVA, Iren. Bioelectrochemical Properties of Enzyme-Containing Multilayer Polyelectrolyte Microcapsules Modified with Multiwalled Carbon Nanotubes. In MEMBRANES, 2019, vol. 9, no. 4, pp., Registrované v: WOS

2. [3.1] Sarkar, T (Sarkar, Tanusree); Mukherjee, N (Mukherjee,Nandini); Das, J (Das, Jayoti). Studies on conductivity of surface functionalized nano porous silicon for detection of hypo and hyper glycemia. In: MATERIALS RESEARCH EXPRESS Volume: 6 Issue: 11

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách

ABA01 HEINZE, T. - KOSCHELLA, A. - EBRINGEROVÁ, Anna. Chemical functionalization of xylan: A short review. In ACS Symposium Series 864. Hemicelluloses: Science and Technology. - Washington : American Chemical Society, 2004. ISBN 0-8412-3842-1.

Citácie:

1. [1.1] HU, Zhenhua - XIANG, Zhouyang - LU, Fachuang. Synthesis and emulsifying properties of long-chain succinic acid esters of glucuronoxylans. In CELLULOSE. ISSN 0969-0239, 2019, vol. 26, no. 6, pp. 3713-3724., Registrované v: WOS

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 BIELY, Peter. Xylanolytic enzymes. In Handbook of Food Enzymology. - New York : Marcel Dekker, Inc., 2003, p. 879-915. ISBN 0-8247-0686-2.

Citácie:

1. [1.1] GUIDO, E. S. - SILVEIRA, J. T. - KALIL, S. J. Enzymatic production of xylooligosaccharides from beechwood xylan: effect of xylanase preparation on carbohydrate profile of the hydrolysates. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2019, vol. 26, no. 2, pp. 713-721., Registrované v: WOS

2. [1.1] MILESSI-ESTEVES, Thais S. - CORRADINI, Felipe A. S. - KOPP, Willian - ZANGIROLAMI, Teresa C. - TARDIOLI, Paulo W. - GIORDANO, Roberto C. - GIORDANO, Raquel L. C. An Innovative Biocatalyst for Continuous 2G Ethanol Production from Xylo-Oligomers by Saccharomyces cerevisiae through Simultaneous Hydrolysis, Isomerization, and Fermentation (SHIF). In CATALYSTS, 2019, vol. 9, no. 3, pp., Registrované v: WOS

3. [1.1] YAGI, Haruka - TAKEHARA, Ryo - TAMAKI, Aika - TERAMOTO, Koji - TSUTSUI, Sosyu - KANEKO, Satoshi. Functional Characterization of the GH10 and GH11 Xylanases from Streptomyces olivaceoviridis E-86 Provide Insights into the Advantage of GH11 Xylanase in Catalyzing Biomass Degradation. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2019, vol. 66, no. 1, pp. 29-35., Registrované v: WOS

ABC02 ČERTÍK, Milan - HANUSOVÁ, V. - BREIEROVÁ, Emília - MÁROVÁ, I. - RAPTA, Peter. Biotechnological production and properties of carotenoid pigments. In Biocatalysis and Agricultural Biotechnology. - Boca Raton: CRC Press : Taylor & Francis Group, p. 355-376. ISBN 978-1-42007-703-2.

Citácie:

1. [1.1] AHMED, Nur Rashid - MANIRAFASHA, Emmanuel - PAN, Xueshan - CHEN, Bor-Yann - LU, Yinghua - JING, Keju. Exploring biostimulation of plant hormones and nitrate supplement to effectively enhance biomass growth and lutein production with thermo-tolerant Desmodesmus sp. F51. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2019, vol. 291, no., pp., Registrované v: WOS

2. [1.1] ROSALES-LOPEZ, Catalina. Other important use of mushrooms. In TECNOLOGIA EN MARCHA. ISSN 0379-3982, 2019, vol. 32, no. 2, pp. 82-90., Registrované v: WOS

ABC03 DELORT, Anne Marie - VAITILINGOM, Mickael - JOLY, Muriel - AMATO, Pierre - WIRGOT, Nolwenn - LALLEMENT, Audrey - SANCELME, Martine - MATULOVÁ, Mária - DEGUILLAUME, Laurent. Clouds: A transient and stressing habitat for microorganisms. In Chénard, Caroline - Lauro, Federico M. ed. : Microbial Ecology of Extreme Environments. - Cham, Switzerland : Springer International Publishing AG, 2017, chapter 10, p. 215-245. ISBN 978-3-319-

51684-4. Dostupné na: https://doi.org/10.1007/978-3-319-51686-8_10

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2. [1.1] ELS, Nora - LAROSE, Catherine - BAUMANN-STANZER, Kathrin - TIGNAT-PERRIER, Romie - KEUSCHNIG, Christoph - VOGEL, Timothy M. - SATTLER, Birgit. Microbial composition in seasonal time series of free tropospheric air and precipitation reveals community separation. In AEROBIOLOGIA. ISSN 0393-5965, 2019, vol. 35, no. 4, pp. 671-701., Registrované v: WOS

ABC04 FARKAŠ, Vladimír - GREŠÍK, Miroslav - KOLAROVA, Nadežda - SULOVÁ, Zdena - ŠESTÁK, Sergej. Biochemical and physiological changes during photoinduced conidiation and derepression of cellulase synthesis in Trichoderma. In KUBICEK-FRANZ, C.P. et al. Trichoderma reesei Cellulases: Biochemistry, Genetics, Physiology and Application. - Cambridge : Royal Society of Chemistry, 1990, p. 139-155. ISBN 0-85186-936-X.

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1. [1.1] GARCIA-GOMEZ, Pablo - ALMAGRO, Goizeder - MARIA SANCHEZ-LOPEZ, Angela - BAHAJI, Abdellatif - AMEZTOY, Kinia - RICARTE-BERMEJO, Adriana - BASLAM, Marouane - ANTOLIN, Maria Carmen - URDIAIN, Amadeo - DOLORES LOPEZ-BELCHI, Maria - LOPEZ-GOMEZ, Pedro - FERNANDO MORAN, Jose - GARRIDO, Julian - JOSE MUNOZ, Francisco - BAROJA-FERNANDEZ, Edurne - POZUETA-ROMERO, Javier. Volatile compounds other than CO2 emitted by different microorganisms promote distinct posttranscriptionally regulated responses in plants. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2019, vol. 42, no. 5, pp. 1729-1746., Registrované v: WOS

2. [1.1] HORTA, Maria Augusta C. - THIEME, Nils - GAO, Yuqian - BURNUM-JOHNSON, Kristin E. - NICORA, Carrie D. - GRITSENKO, Marina A. - LIPTON, Mary S. - MOHANRAJ, Karthikeyan - DE ASSIS, Leandro Jose - LIN, Liangcai - TIAN, Chaoguang - BRAUS, Gerhard H. - BORKOVICH, Katherine A. - SCHMOLL, Monika - LARRONDO, Luis F. - SAMAL, Areejit - GOLDMAN, Gustavo H. - BENZ, J. Philipp. Broad Substrate-Specific Phosphorylation Events Are Associated With the Initial Stage of Plant Cell Wall Recognition in Neurospora crassa. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2019, vol. 10, no., pp., Registrované v: WOS

ABC05 HRABÁROVÁ, Eva - ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Insoluble protein applications: the use of bacterial inclussion bodies as biocatalysts. In Insoluble Proteins : Methods and Protocols. - New York : Springer, 2015, 2015, vol. 1258, chapter 24, p. 411-422. ISBN 978-1-4939-2204-8. Dostupné na: https://doi.org/10.1007/978-1-4939-2205-5_24

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1. [1.1] DE MARCO, Ario - FERRER-MIRALLES, Neus - GARCIA-FRUITOS, Elena - MITRAKI, Anna - PETERNEL, Spela - RINAS, Ursula - TRUJILLO-ROLDAN, Mauricio A. - VALDEZ-CRUZ, Norma A. - VAZQUEZ, Esther - VILLAVERDE, Antonio. Bacterial inclusion bodies are industrially exploitable amyloids. In FEMS MICROBIOLOGY REVIEWS. ISSN 0168-6445, 2019, vol. 43, no. 1, pp. 53-72., Registrované v: WOS

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3. [1.1] PESARRODONA, Mireia - JAUSET, Toni - DIAZ-RIASCOS, Zamira - SANCHEZ-CHARDI, Alejandro - BEAULIEU, Marie-Eve - SERAS-FRANZOSO, Joaquin - SANCHEZ-GARCIA, Laura - BALTA-FOIX, Ricardo - MANCILLA, Sandra - FERNANDEZ, Yolanda - RINAS, Ursula - SCHWARTZ, Simo - SOUCEK, Laura - VILLAVERDE, Antonio - ABASOLO, Ibane - VAZQUEZ, Esther. Targeting Antitumoral Proteins to Breast Cancer by Local Administration of Functional Inclusion Bodies. In ADVANCED SCIENCE, 2019, vol. 6, no. 18, pp., Registrované v: WOS

4. [1.1] SLOUKA, Christoph - KOPP, Julian - SPADIUT, Oliver - HERWIG, Christoph. Perspectives of inclusion bodies for bio-based products: curse or blessing? In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2019, vol. 103, no. 3, pp. 1143-1153., Registrované v: WOS

ABC06 HUSHEGYI, András - BELICKÁ, Ľudmila, Kľuková - 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. Dostupné na: https://doi.org/10.1002/9781118860212.ch15

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AFC01 HURAN, Jozef - HRUBČÍN, Ladislav - BOHÁČEK, Pavol - BORZAKOV, S.B. - SKURATOV, V.A. - KOBZEV, A.P. - KLEINOVÁ, Angela - SASINKOVÁ, Vlasta. The effect of xe ion and neutron irradiation on the properties of SiC and SiC(N) film prepared by PECVD technology. In RAD 2015 : proceedings Third International Conference on Radiation and Applications in Various Fields of Research. Ed. G. Rastič ; rev. A.A. Ajayi-Banji, A.A. Antsiferova et al. - Niš : RAD Association, 2015, p. 399-403. ISBN 978-86-80300-01-6.

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