Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2023

Bratislava
február 2024

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ČASŤ A

Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti organizácie za rok 2023

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav molekulárnej biológie SAV, v. v. i.
Riaditeľ: Ing. Eva Kutejová, DrSc.
1. zástupca riaditeľa: Ing. Daniela Krajčíková, CSc.
2. zástupca riaditeľa: Mgr. Pavol Pataky
Vedecký tajomník: RNDr. Lucia Bocánová, PhD.
Predseda vedeckej rady: Mgr. Ľuboš Kľučár, PhD.
Člen Snemu SAV: Mgr. Ľuboš Kľučár, PhD.
Adresa: Dúbravská cesta 21, 845 51 Bratislava 45

http://www.imb.savba.sk/

Tel.: 02 5930 7411
E-mail: umbidir@savba.sk

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: Verejná výskumná inštitúcia od roku 2022

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	79	24	55	3	9	74	65.44	53.38	3
Vedeckí pracovníci	46	18	28	1	3	42	41.07	41.07	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	16	2	14	2	6	15	9.38	9.31	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	5	1	4	0	0	5	3.49	0	0

Odborní pracovníci ÚS	5	0	5	0	0	5	4.5	3	3
Ostatní pracovníci	7	3	4	0	0	7	7	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 31.12.2023 (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 31.12.2023 (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 31.12.2023)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	6	12	1	0	6	9	3
Ženy	1	27	0	0	1	21	6

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	3	2.0	0	0.0	3	2.1	3	3.0	0	0.0	3	3.0	2	2.0	5	5.0	0	0.0
Ženy	7	3.7	2	2.0	4	4.0	5	5.0	6	5.2	2	2.0	1	1.0	10	10.0	4	4.0

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2023

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	49.7	50.4	48.1
Ženy	48.3	48.3	48.3
Spolu	48.7	49.1	48.2

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

Oddelenie „Biochémia a štruktúra proteínov“, vedúca Ing. Eva Kutejová, DrSc.
Oddelenie „Genomika a biotechnológie“, vedúci RNDr. Ján Kormanec, DrSc.
Oddelenie „Mikrobiálna genetika“, vedúci RNDr. Imrich Barák, DrSc.
Oddelenie „Mikrobiálna ekológia“, vedúci Dr. Domenico Pangallo, DrSc.

V rámci týchto oddelení vznikli dve nové pracovné skupiny. Dr. Jacob Bauer, PhD. a Mgr. Vladena Bauerová, PhD. požiadali o vytvorenie pracovnej skupiny „Proteínová kryštalografia a molekulová dynamika“, ktorá bude súčasťou oddelenia „Biochémia a štruktúra proteínov“. Vedúcim pracovnej skupiny sa stal Dr. Jacob Bauer PhD. Mgr. Ján Jamroškovič, PhD. požiadal o vytvorenie druhej pracovnej skupiny „Syntetická mikrobiológia“, ktorá bude súčasťou oddelenia „Mikrobiálna genetika“. Financovanie pracovnej skupiny Mgr. Jána Jamroškoviča, PhD. bude na obdobie piatich rokov (od 1.11.2023 do 31.10.2028) zabezpečené programom IMPULZ.

Vedecká rada Ústavu molekulárnej biológie SAV, v. v. i., pracovala v zložení: predseda Mgr. Ľuboš Kľučár, PhD., členovia RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., MBA, FIFST a prof. Ing. Štefan Janeček, DrSc., externými členmi boli Ing. Zuzana Ciesarová, CSc., prof. RNDr. Hana Drahovská, PhD. a prof. RNDr. Ľubomír Tomáška, DrSc.

Správna rada Ústavu molekulárnej biológie SAV, v .v. i., pracovala v zložení: predsedníčka Ing. Eva Kutejová, DrSc., členovia RNDr. Gabriela Bukovská, CSc., RNDr. Vladimír Pevala, PhD., Ing. Daniela Krajčíková, CSc. a RNDr. Mária Bučková, PhD.
Členmi Dozornej rady ústavu boli prof. RNDr. Ľubica Lacinová, DrSc., prof. RNDr. Anton Horváth, CSc. a Ing. Veronika Púčiková.

Medzinárodný vedecký poradný zbor (International Scientific Advisory Board) pracoval v zložení: predseda prof. Antony J. Wilkinson, University of York, York, Spojené kráľovstvo a členovia prof. Erik Bongcam-Rudloff, Swedish University of Agricultural Sciences, Uppsala, Švédsko a prof. Karin Birte Svensson, Technical University of Denmark, Kodaň, Dánsko.

V roku 2023 nastala zmena vo vedení Ekonomického oddelenia, novým vedúcim Ekonomického oddelenia sa stal Mgr. Pavol Pataky. Okrem toho došlo aj k ďalším personálnym zmenám, k 31.12.2023 odišli do dôchodku RNDr. Peter Ferianc, CSc. a RNDr. Jarmila Farkašovská, CSc. Do pracovnej skupiny „Apidológia a apiterapia“ bola prijatá Mgr. Marcela Bučeková, PhD. V tomto roku získala Štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine RNDr. Tetiana Moskalets PhD., ktorá sa zapojila do projektov pracovnej skupiny „Molekulárna imunológia“.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2023

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	13	1	120654	120654	8337	8337	5972	-
2. Projekty APVV	10	6	-	-	343751	266048	-	82186
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	2	1	-	-	55150	55150	-	183000
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	31300	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	2000	2000	-	-	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2023

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2023	-	5	11
2. Projekty výziev EŠIF podané r. 2023	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2023

Tabuľka 2c Medzinárodné projekty riešené v roku 2023

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 Horizont 2020 a Horizont Európa	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	3	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	3000	3000	-	-	-	-
7. Bilaterálne projekty ostatné	1	1	-	-	24996	24996	-	5000
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	1	-	-	-	-	-	-

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

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2023

Tabuľka 2d Počet projektov Horizont Európa v roku 2023

	A	B
Počet podaných projektov Horizont Európa		1

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

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

V roku 2024 sa Ústav molekulárnej biológie SAV, v. v. i. plánuje zapojiť do výzvy Horizont Creative Europe a Interreg Central Europe, prípadne do ďalších aktuálnych výziev.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023

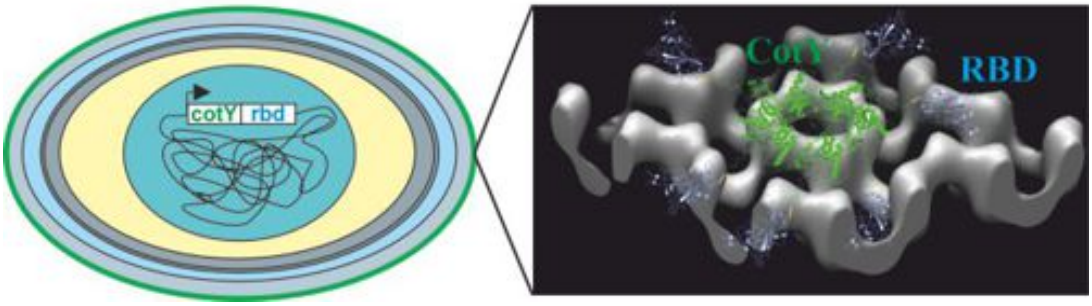
Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

A. Geneticky upravené bakteriálne spóry ako potenciálne orálne vakcíny proti SARS-CoV-2 a iným patogénom

Autori (za ÚMB SAV): A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, I. Barák

Spóry *Bacillus subtilis* sa považujú za účinné a užitočné nástroje na povrchové naviazanie rôznych proteínov. V rámci štúdia, sa pripravili rekombinantné spóry s naviazanou doménou "spike" proteínu SARS-CoV-2 vo fúzii s obalovými proteínmi spór CotZ a CotY. Pri zvažovaní, či by takéto rekombinantné spóry *B. subtilis* boli vhodné na vývoj orálnej vakcíny, hovorí v ich prospech niekoľko faktorov. Po prvé, *B. subtilis* je považovaný za všeobecne bezpečný mikroorganizmus a používa sa aj ako probiotikum. Po druhé, spóry môžu prežiť drsné prostredie v gastrointestinálnom trakte spôsobené žalúdočnými kyselinami, a preto sú ideálnym prostriedkom na perorálne podávanie vakcín. Výsledky uvedené v práci naznačujú, že rekombinantné spóry s naviazanými proteínmi na obalové proteíny CotY a CotZ by mohli mať široké využitie pre vývoj nových perorálnych vakcín nielen proti SARS-CoV-2 vírusu ale aj proti ďalším novo objavujúcim sa život ohrozujúcim vírusom a baktériám.



Projekty

1. VEGA 2/0001/21 - Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis.
2. APVV-18-0104 - Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry

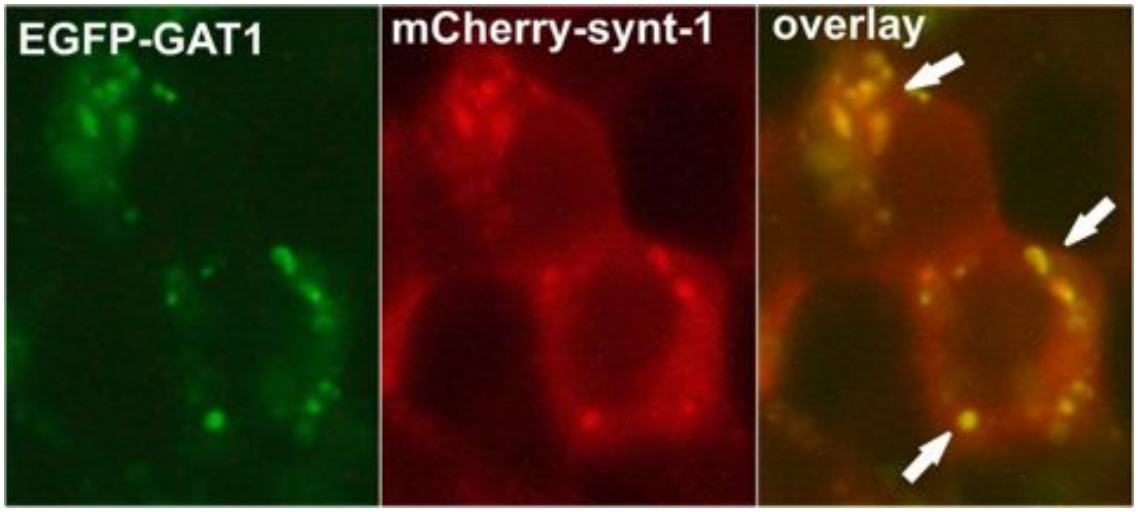
Výstupy

1. A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, and I. Barák (2023) *Bacillus subtilis* spores displaying RBD domain of SARS-CoV-2 spike protein.() (IF = 7.27) (Q1 JCR2022; Q1 SJR2022)

B. Úloha PDZ interakcií v regulácii GABA transportéra GAT1 a proteínu E u vírusov SARS COV, SARS-COV2 a MERS-COV

Autori (za ÚMB SAV): M. Baliová, I. Jahodová, F. Jurský

PDZ interakcie sú dôležitým nástrojom regulácie bunkových signálnych dráh a zohrávajú tiež dôležitú úlohu v infekcii vírusov. V našej práci sme identifikovali PDZ interakciu C-terminálneho úseku GABA transportéra GAT1 s PDZ proteínom Syntenín 1. Interakciu sme potvrdili na úrovni rekombinantných proteínov, ako aj v neuroblastómových bunkách N2a. Interakcia pravdepodobne zohráva úlohu v regulácii aktivity GAT1 regulovaním expresie transportéra na povrchu neurónov. Zistili sme tiež veľký rozdiel v intenzite a promiskuite PDZ interakcií proteínu E vírusov SARS COV1,2 a MERS COV s multi PDZ proteínom MUPP1. Výrazne zvýšená PDZ interaktivita MERS-COV koreluje so signifikantne väčšou úmrtnosťou, čo znamená že PDZ interakcie proteínu E môžu prispievať k zvýšenej dezintegrácii niektorých bunkových signálnych dráh a vyššej letalite vírusu MERS-COV.



Projekty

1. VEGA 2/0127/21 - Regulácia interakčnej špecificity multi-PDZ proteínov.

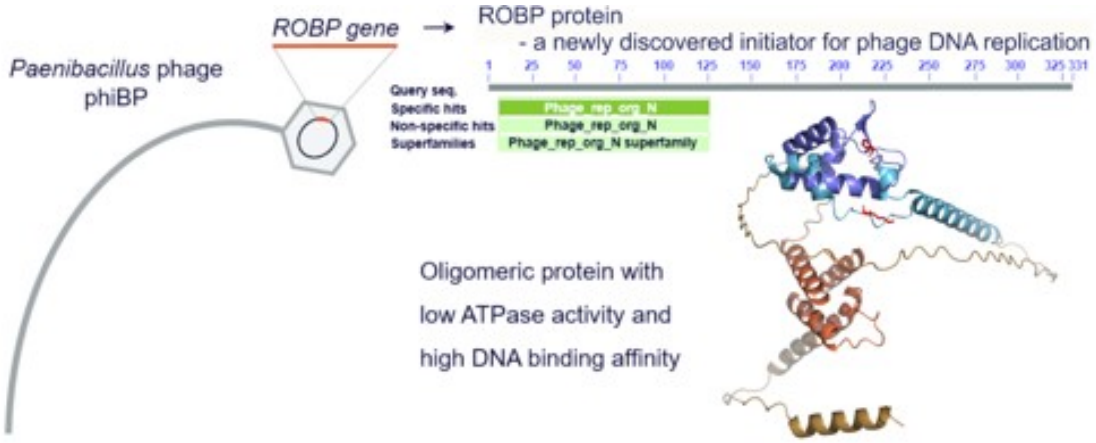
Výstupy

1. Jahodová, I., Baliova, M., Jursky, F.:PDZ interaction of the GABA transporter GAT1 with the syntenin-1 in Neuro-2a cells. Neurochem. Int. 165 (2023) 105522. [IF2022 4.200]
2. Baliova, M., Jahodová, I., Jursky, F.:A Significant Difference in Core PDZ Interactivity of SARS-CoV, SARS-CoV2 and MERS-CoV Protein E Peptide PDZ Motifs In Vitro. Protein J. 42 (2023) 253-262. [IF2022 3.000]

C. Charakterizácia novo identifikovaného pravdepodobného iniciátora DNA replikácie z bakteriofága phiBP

Autori (za ÚMB SAV): G. Bukovská, N. Halgašová, R. Javorová, L. Bocánová, D. Krajčíková, J.A. Bauer

Pre replikáciu fágovej DNA sú potrebné vlastné proteíny fága spolu s proteínmi bakteriálneho hostiteľa. Charakterizovali sme nový iniciačný replikačný proteín ROBP fága phiBP z kmeňa Paenibacillus polymyxa. Rekombinantný proteín divého typu gpRO-HC sa vyznačoval nízkou ATPázovou aktivitou bez ohľadu na prítomnosť DNA, ktorá sa významne zvýšila po zámene lyzínu v polohe 8 za alanín. Je možné, že dôsledkom mutácie bolo oslabenie fosfátovej vodíkovej väzby a zvýšenie disociačnej rýchlosti. Proteín gpRO-HC sa účinne viazal na rôzne jedno- a dvojvláknové DNA substráty a vytváral veľké oligomérne komplexy s približným počtom podjednotiek 12. Bioinformatickou analýzou sme zistili v nukleotidovej sekvencii génu ROBP priame a nepriame opakovania, ktoré sa často vyskytujú v mieste počiatku replikácie DNA. Prítomnosť replikačného počiatku v rámci génovej sekvencie iniciačného proteínu je typická pre fágy s théta mechanizmom replikácie, ktorý pravdepodobne používa aj fág phiBP.



Projekty

1. VEGA 2/0079/22 - Príprava mutantných lytických a replikačných proteínov bakteriofágov a ich antibakteriálny potenciál.

Výstupy

1. Halgasova, N., Javorova, R., Bocanova, L., Krajcikova, D., Bauer, J.A., Bukovska, G.: Characterization of a newly discovered putative DNA replication initiator from *Paenibacillus polymyxa* phage phiBP. Microbiol. Res. 274 (2023) 127437-1-13 [IF 2022: 6,7].

2.3.2. Výsledky aplikačného typu

A. Stratégia molekulárnej a enzymatickej ochrany nášho kultúrneho dedičstva

Autori: Pavlović, J., Puškárová, A., Planý, M., Farkas, Z., Rusková, M., Kvalová, K., Kraková, L., Bučková, M., Pangallo, D.

Na zachovanie kultúrneho dedičstva pre budúce generácie je dôležité nájsť nové spôsoby ochrany historických a umeleckých objektov pred procesom biodeteriorácie. Využili sme molekulárne prístupy založené na sekvenovaní tretej generácie (MinION) a bioinformatické postupy na hlbšie porozumenie mikrobiálnej pigmentácie historických kníh a archívnych dokumentov. Sekvenovanie

odhalilo zložité biologické vzťahy medzi hubami a baktériami prítomnými na objektoch a v okolitom vzduchu, čím sme rozšírili poznatky o prispievateľoch k pigmentácii a poškodzovaniu nášho písomného dedičstva. Ďalším dôležitým aspektom v súvislosti so zachovaním nášho kultúrneho dedičstva je vypracovanie stratégií pre obnovu poškodených položiek. Vyvinuli sme praktickú metódu s využitím extracelulárnej enzymatickej zmesi mikroorganizmov (EEM) na odstránenie pečiatok z kníh. Tento objav je zvlášť hodnotný pre konzervátorov v knižniciach, kde odstránenie inštitucionálnych pečiatok predstavuje prvý krok v procese reštaurovania.

Projekty

1. APVV-19-0059 - Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním.

Výstupy

1. Pavlović, J., Puškárová, A., Planý, M., Farkas, Z., Rusková, M., Kvalová, K., Kraková, L., Bučková, M. and Pangallo, D., 2023. Colored stains: Microbial survey of cellulose-based and lignin rich papers. *International Journal of Biological Macromolecules*, *241*, p.124456. [IF2022 8.2]
2. Farkas, Z., Puškárová, A., Šišková, A.O., Poljovka, A., Zámocký, M., Vadkerti, E., Urík, M., Farkas, B., Bučková, M., Kraková, L. and Pangallo, D., 2023. Evaluation of enzymatic stamp removal strategies on handmade (cellulose-based) and machine-made (lignin-containing) papers. *International Journal of Biological Macromolecules*, *242*, p.124599. [IF2022 8.2]

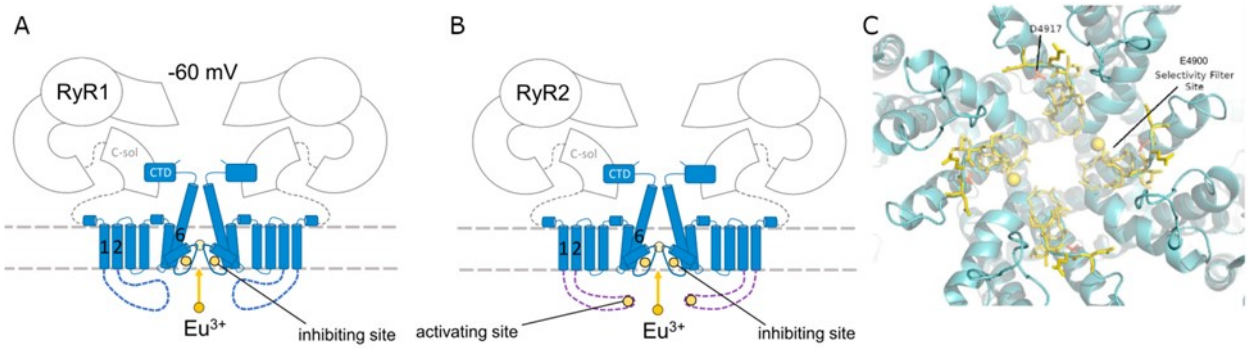
2.3.3. Výsledky na báze medzinárodnej spolupráce

A. Detekcia dvoch funkčne odlišných luminálnych Ca2+-väzbových miest u ryanodínových receptorov: objasnenie rozdielnej regulácie otvárania a zatvárania RyR1 a RyR2 kanála

Autori (za ÚMB SAV): V. Bauerová-Hlinková, J. Bauer

Ryanodínové receptory (RyR) sú vápnikové kanály, ktoré sú regulované väzbou Ca2+ na cytoplazmatickej a luminálnej strane (orientovanej do vnútra sarkoplazmatického retikula). Narušenie tejto regulácie spôsobuje zmenu funkcie RyR, čo podmieňuje viaceré ochorenia kostrového (malígna hypertermia, ochorenie centrálnych jadier) a srdcového svalu (arytmie). V tejto práci sme objasnili luminálnu reguláciu RyR1 a RyR2 izoforiem pomocou Eu3+ a navrhli lokalizáciu Ca2+ väzbových miest (obrázok). Výsledky ukazujú rozdielny spôsob luminálnej regulácie pri RyR1 a RyR2; pri vyššej koncentrácii Ca2+ (aj Eu3+) je RyR2 aktivovaný, kdežto RyR1 je inhibovaný. Štúdium RyR1 Y524S mutácie, ktorá je asociovaná s malígnou hypertermiou (MH), ukázalo rovnakú citlivosť luminálnej regulácie Ca2+ ako pri natívnom RyR1, čo naznačuje,

že MH pri tejto mutácii nie je spôsobená zmenenou luminálnou reguláciou Ca2+. Tieto výsledky boli získané v rámci medzinárodnej spolupráce s Jánosom Almássym, Semmelweis University, Budapešť, Maďarsko.



Projekty

1. VEGA 2/0131/20 - Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2.

Výstupy:

1. Magyar, Z.E., Bauer, J., Bauerova-Hlinkova, V., Jóna, I., Gaburjakova, J., Gaburjakova, M., Almássy, J. Eu3+ detects two functionally distinct luminal Ca2+ binding sites in ryanodine receptors. (2023) Biophys. J. 122(17): 3516-3531. (2022: 3,4 - IF, Q1 – SJR; Q1 – JCI (biophysics), Q2 – JCR (biophysics)).

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2023/ doplnky z r. 2022
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)	**0 / 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)	**19 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**14 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**9 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**1**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 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 sa 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. 2022 (zdroj JCR) *Počet článkov / doplnky*	17 / 0	11 / 0	1 / 0	2 / 0	31 / 0
Podľa SJR z r. 2022 (zdroj Scimago) *Počet článkov / doplnky*	28 / 0	2 / 0	2 / 0	1 / 0	33 / 0

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2022/ doplnky z r. 2021**
Citácie vo WOS (1.1, 2.1)	1517 / 11
Citácie v SCOPUS (1.2, 2.2)	163 / 65
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	0 / 0
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	46
Prednášky a vývesky na národných vedeckých podujatiach	17

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. Barak, I.: What we know about bacterial nanotubes?. *Seminar series of Department of Medical Biochemistry and Biophysics of Umea University*, Umea, Sweeden, 22-24 May 2023.
2. Bauerova-Hlinkova, V., Hromadkova, T., Kutejova, E., Bauer, J.: The effect of the central-helix mutations on the stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2. *12TH INTERNATIONAL CONFERENCE STRUCTURE & STABILITY OF BIOMACROMOLECULES*, Košice, Slovakia, 5-7 Sep 2023.
3. Bauerova-Hlinkova, V., Kutejova, E., Bauer, J.: Differences in stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2 induced by central helix mutations. *The 8th International Scientific Conference Applied Natural Sciences 2023*, Donovaly, Slovakia, 18-20 Sep 2023.
4. Leksa, V.: Lactoferrin - the alarmin which knows when is a time to kill and a time to heal. *13TH C1-INHIBITOR DEFICIENCY & ANGIOEDEMA WORKSHOP*, Budapest, Hungary, 4-7 May 2023.

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 2023

2.7.1. Vynálezy, na ktoré bol v roku 2023 udelený patent

a) na Slovensku

Názov vynálezu: Spôsob produkcie rekombinantnej hypertermofilnej katalázy-peroxidázy v bunkách Escherichia coli
Číslo patentu: P289111
Dátum priority: 11.8.2019
Majiteľ / spolumajiteľ: Ústav molekulárnej biológie Slovenskej akadémie vied, verejná výskumná inštitúcia, Bratislava, SK; Univerzita Komenského v Bratislave, Bratislava, SK
Pôvodcovia vynálezu: Zámocký Marcel, Stuchlík Stanislav, Struhárňanská Eva, Levarski Zdenko, Turňa Ján,

Názov vynálezu: Antimikrobiálny proteín, antimikrobiálny rekombinantný proteín s lytickými vlastnosťami, expresný vektor, spôsob ich prípravy a použitie
Číslo patentu: P289101
Dátum priority: 17.12.2020
Majiteľ / spolumajiteľ: Ústav molekulárnej biológie Slovenskej akadémie vied, verejná výskumná inštitúcia, Bratislava, SK; Univerzita Komenského v Bratislave, Bratislava, SK;
Pôvodcovia vynálezu: Bukovská Gabriela, Bocánová Lucia, Halgašová Nora, Kajsiková Mária, Drahovská Hana

b) v zahraničí

Názov vynálezu: Antimicrobial protein, Antimicrobial recombinant protein with lytic properties, Expression vector, Method of their preparation and use
Číslo patentu:
Dátum priority: 17.12.2020
Majiteľ / spolumajiteľ: Institute of Molecular Biology SAS/ Comenius University in Bratislava
Pôvodcovia vynálezu: Bukovská Gabriela, Bocánová Lucia, Halgašová Nora, Kajsiková Mária, Drahovská Hana

2.7.2. Vynálezy prihlásené v roku 2023

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

Názov vynálezu: New systems for producing recombinant proteins. International patent.
Krajina: Európska únia
Číslo prihlášky: Patent application WO/2023/285135
Dátum priority: 17.1.2023
Majiteľ / spolumajiteľ: Nemysis Ltd, Ireland
Pôvodcovia vynálezu: Kormanec Ján, Homerová Dagmar, Cavaletti Linda, Carenzi Giacomo

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 2023

b) udelené v roku 2023

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 2023 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
Zámocký Marcel	APVV/Slovensko-Izrael RD 2023	1
	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

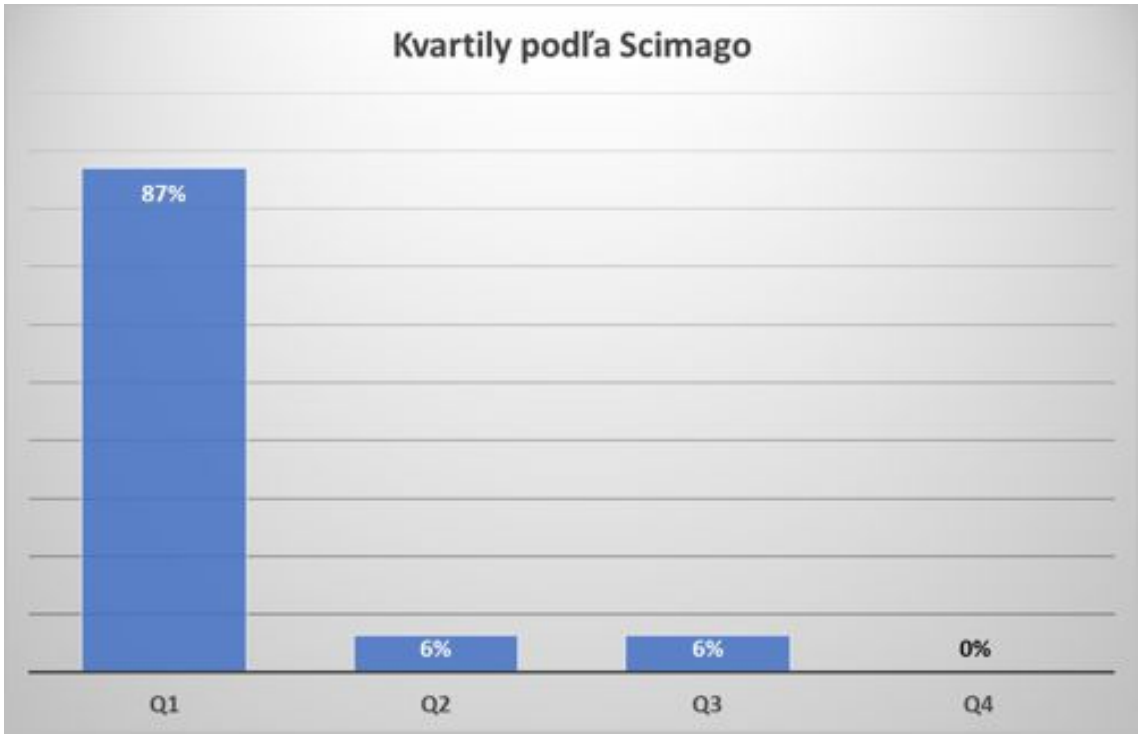
2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Barák Imrich	0	0	5	0	0	0	0
Janeček Štefan	0	0	20	0	0	0	0
Kľučár Ľuboš	0	0	4	0	0	0	0
Majtán Juraj	0	0	35	0	0	0	0
Urbániková Ľubica	0	0	1	0	0	0	0
Zámocký Marcel	0	0	7	0	0	0	0
Spolu	**0**	**0**	**72**	**0**	**0**	**0**	**0**

2.11. Iné informácie k vedecko-výskumnej činnosti.

Na ÚMB SAV, v. v. i., sa dlhodobo orientujeme na výskum, ktorý vedie k publikáciám v kvalitných zahraničných periodikách s vyšším IF a so zameraním na lepšiu citovanosť, čo sa premieta do veľmi dobrého medzinárodného postavenia ústavu a do kvalitnej medzinárodnej spolupráce. V roku 2023 vedeckí pracovníci ústavu publikovali celkovo 31 impaktovaných vedeckých publikácií. Zaradenie časopisov podľa kvartilov potvrdzuje vysokú kvalitu našich publikácií. V 1. a 2. kvartile Scimago je 94 % našich publikácií (87 % z nich spadá do 1. kvartilu a 6 % do 2. kvartilu). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác. Za rok 2022 (vykazované v roku 2023) sme dosiahli 1676 ohlasov (WOS a SCOPUS).



ÚMB SAV, v. v. i., sa aj v roku 2023 podieľal na vedeckých aktivitách súvisiacich s bojom proti pandémii COVID-19. Pracovná skupina RNDr. Imricha Baráka, DrSc., začlenená do špecifickej celosvetovej výzvy European XFEL s názvom „*New structures to fight COVID-19 solved by liquid jet SFX at the European XFEL*“, pokračovala aj v roku 2023 na riešení projektu zameraného na prípravu a analýzu kokryštálov proteáz SARS-Cov-2 s potenciálnymi inhibítormi. Okrem toho spóry *Bacillus subtilus* boli použité ako možné orálne vakcíny umiestnením RBD domény spike proteínu Sars-CoV-2 na povrch spór. Skupina RNDr. Vladimíra Leksu, PhD. v spolupráci so skupinou Dr. Anna Ohradanova-Repic na Lekárskej fakulte vo Viedni pracujú na vývoji liečiva na COVID-19. Tejto pracovnej skupine sa podarilo získať doktorandský štipendijný projekt „Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu“ z Plánu obnovy EÚ. Pracovná skupina Dr. Domenica Pangalla, DrSc. pracovala na optimalizácii citlivej metódy OSN-qRT-PCR určenej na detekciu SARS-CoV-2 v odpadových vodách.

ÚMB SAV, v. v. i., pokračuje vo svojich medzinárodných vedeckých aktivitách. Je zapojený do projektu Európskeho XFEL-u (X-ray Free Electron Laser) v Hamburgu, ktorý by mal revolucionizovať štrukturálnu biológiu nielen na Slovensku, ale aj vo svete. Pracovníci ústavu pracujú v orgánoch SFX/SPB a XBI konzorcií, alebo ako vedeckí pracovníci XFEL-u. Zúčastnili sa aj na meraniach v rámci projektu, kde hlavným riešiteľom bol RNDr. Imrich Barák, DrSc. a týkal sa 2D kryštálov spórových obalových proteínov.

ÚMB SAV, v. v. i., bol v roku 2023 zapojený do riešenia troch COST projektov. V roku 2023 sa ukončilo riešenie projektu ML4Microbiome (CA18131 – „Statistical and machine learning

techniques in human microbiome studies“), do ktorej bol zapojený Mgr. Ľuboš Kľučár, PhD. z bioinformatickej pracovnej skupiny. Naša organizácia sa zapojila do dvoch nových projektov: „BeSafeBeeHoney (CA22105 - BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY)“ a „NETSKINMODELS (CA21108 - European Network for Skin Engineering and Modeling)“ - obidva v rámci spolupráce skupiny „Apidológie a apiterapie“ Ing. Juraja Majtána, DrSc., MBA, FIFST.

Naša organizácia je medzinárodne etablovaná aj vďaka vedeckým databázam vytvoreným a spravovaným Oddelením genomiky a biotechnológií ÚMB SAV, v. v. i. Užitočnosť týchto databáz sa neprejavuje počtom citácií, ale počtom webových prístupov. Naše databázy zaznamenali vysoký počet unikátnych webových návštevníkov, z nich najvyšší dosiahla pravidelne aktualizovaná databáza viruSITE (www.virusite.org) - vyše 1800 unikátnych návštevníkov za rok 2023.

Jasným zviditeľnením medzinárodného postavenia ÚMB SAV, v. v. i., je aj skutočnosť, že mnohí naši vedeckí pracovníci sú oslovovaní editormi z renomovaných zahraničných vedeckých časopisov a v roku 2023 recenzovali 72 publikácií (WOS, Scopus). Ako experti sa zúčastňujú aj hodnotenia medzinárodných projektov.

ÚMB SAV, v. v. i., bol na národnej úrovni zapojený do projektu štrukturálnych fondov „Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom“. Projekt sa v roku 2023 ukončil a jeho partnermi boli GENETON s. r. o., Chemický ústav SAV, v. v. i., MEDIREX GROUP ACADEMY, n. o., POWERTEC, s. r. o., Slovgen, s. r. o., a Univerzitná nemocnica s poliklinikou Milosrdní bratia. Projekt sa venoval výskumu a vývoju v oblasti problematiky dedičných nádorov spôsobených Lynchovým syndrómom a predpokladaného genetického pozadia vyššieho výskytu vybraných typov nádorov v slovenskej populácii. Náš ústav participoval na štúdiu črevného mikrobiómu pacientov s kolorektálnym karcinómom a ľudí s Lynchovým syndrómom.

Pokračovalo sa v poskytovaní služieb v kryštalizačnom laboratóriu vybudovanom v rámci medzinárodného projektu Interreg SK-AT „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“.

Skupina „Apidológie a apiterapie“ pod vedením Ing. Juraja Majtána, DrSc., MBA, FIFST pokračovala v projekte Medové laboratórium, ktorého snahou je poskytovať širokej verejnosti možnosť analýzy antibakteriálnej aktivity medov a v tomto roku zaznamenala zvyšujúci sa záujem, hlavne drobných včelárov. Aktivity projektu „Medové laboratórium“ sa dostávajú aj do európskeho, či medzinárodného priestoru, čo viedlo k podpisu memoranda o spolupráci s talianskou organizáciou ASSOciazione Apistica Naturale Italiana s cieľom podpory výskumu medu a prípravy nového medu medicínskej kvality. Spolupráca na analýze vzoriek medu s centrom pre včelárenie ADECAL TECHNOPOLE na Novej Kaledónii v roku 2023 bola zavŕšená publikovaním spoločného vedeckého článku v časopise Plos One. Spolupráca vo výskume medu a jeho aplikácii bude pokračovať aj v nasledujúcom období.

Mgr. Naďa Labajová, PhD. z Oddelenia „Mikrobiálnej genetiky“ získala *Fulbright Visiting Scholar fellowship* a absolvovala od júla do decembra 2023 stáž v skupine prof. Williama Shiha na The Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, USA. Nadviazala tiež spoluprácu s laboratóriom prof. Mahmouda L. Nasra, Brigham and Women's Hospital, Harvard Medical School, Boston, USA

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2023 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2024 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Bauerová Vladena	0	1	0
Spolu	0	1	0

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

Mgr. Gábor Beke, PhD.

International Society for Computational Biology (ISCB) (funkcia: člen)

RNDr. Lucia Bocánová, PhD.

The European Society of Clinical Microbiology and Infectious Diseases (ESCMID) (funkcia: člen)

RNDr. Gabriela Bukovská, CSc.

European Federation of Biotechnology (funkcia: člen)
International Society for Viruses of Microorganisms (funkcia: člen)

Mgr. Milan Hučko

International Society for Computational Biology (ISCB) (funkcia: člen)

Mgr. Ľuboš Kľučár, PhD.

EMBnet (funkcia: manažér Národného uzla)

Mgr. Vladimír Leksa, PhD.

Rakúska spoločnosť pre alergológiu a imunológiu - OEGAI (funkcia: člen)

Ing. Juraj Majtán, DrSc., MBA, FIFST

International Honey Commission (funkcia: člen)

RNDr. Ľubica Urbániková, CSc.

Česká a slovenská kryštalografická spoločnosť (funkcia: člen vedeckej rady)

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

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Barák Imrich	Polish NCN/Preludium Bis call	7
Bukovská Gabriela	Ministerstvo zdravotnictví ČR - Biomedicínske technológie	1
Kutejová Eva	The French National Research Agency (ANR)	1

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

Pracovná skupina „Fylogenomickej ekológie“ pod vedením RNDr. Marcela Zámockého, DrSc. rozbehla spolupráce s ústavom CSIC v Madride – zodpovedná osoba Dr. Romero Guzmán, nosnou témou sú hémové peroxygenázy. Pripravili projekt, ktorý bol v rámci MVTS schválený v decembri 2023 pod referenciou BILAT23032.

Pracovná skupina „Bioinformatika“ sa v roku 2022 zapojila do medzinárodného COST programu ML4Microbiome (CA18131) „Statistical and machine learning techniques in human microbiome studies“, v rámci ktorého sa Mgr. Ľuboš Kľučár, PhD. stal národným koordinátorom tohto projektu. Spolupráca bola zameraná na perspektívne pokročilé výpočtové metódy strojového učenia pre potreby analýz širokého spektra dát ľudského mikrobiómu. Výstupom spolupráce je publikacia v časopise Frontiers in Microbiology (2023).

Pracovná skupina „Environmentálna a potravinová mikrobiológia“ pod vedením Dr. Domenica Pangalla, DrSc. sa zapojila do projektu MOST 108-2221-E-006 -160 -MY3, „Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémii“. Vo svojej práci sa členovia skupiny pokúsili zvýšiť citlivosť qRT-PCR vyvinutím jednokrokového vnoreného testu qRT-PCR s jednou skúmavkou (OSN-qRT-PCR). Vyvinuli dva varianty testov, orientované na gén nukleokapsidového fosfoproteínu (N) a gén spike proteínu (S). V rámci projektu sa porovnala výkonnosť konvenčných testov PCR s reverznou transkripciou v reálnom čase (qRT-PCR) orientovaných na tieto gény s dvoma novými testami OSN-qRT-PCR. Dokončili sa analýzy vysokovýkonným sekvenovaním na báze MinION na identifikáciu mikrobioty a rezistómu vo vzorkách odpadových vôd. Mgr. Andrea Puškárová, PhD. z tejto pracovej skupiny je koordinátorkou bilaterálneho projektu SAS-CNR “Vysokovýkonné sekvenovanie mikrobiómu listovej zeleniny pripravenej priamo na konzumáciu: optimalizácia protokolov dlhého čítania a bioinformatických výpočtových procesov“.

Z pracovnej skupiny „Mikrobiálnej genetiky“ pod vedením RNDr. Imricha Baráka, DrSc získala Fulbright Visiting Scholar fellowship Mgr. Naďa Labajová, PhD. a absolvovala od 1.7.2023 - 30.11.2023 stáž na pracovisku The Wyss Institute for Biologically Inspired Engineering at Harvard University, Boston, USA v skupine Prof. Williama Shih. Nadviazala tiež spoluprácu s laboratóriom Prof. Mahmouda L. Nasr, Brigham and Women's Hospital, Harvard Medical School,

Boston, USA.

Pracovná kupina „Apidológie a apiterapie“ pod vedením Ing. Juraja Majtána, DrSc., MBA, FIFST úspešne pokračovala v projekte Medové laboratórium. Pracovné aktivity projektu sa dostávajú aj do európskeho, či medzinárodného priestoru, čo viedlo k podpisu memoranda o spolupráci s talianskou organizáciou ASSOciazione Apistica Naturale Italiana s cieľom podpory výskumu medu a príprave nového medu medicínskej kvality. Spolupráca na analýze vzoriek medu s centrom pre včelárenie ADECAL TECHNOPOLE na Novej Kaledónii v roku 2023 bola zavŕšená publikovaním spoločného vedeckého článku v časopise Plos One. Spolupráca vo výskume medu a jeho aplikácii bude pokračovať aj v nasledujúcom období. Získali dva COST projekty: „BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY“ (zodpovedný riešiteľ Ing. Juraja Majtána, DrSc., MBA, FIFST) a „NETSKINMODELS (CA21108 - European Network for Skin Engineering and Modeling)“. Vrámci zahraničnej spolupráce sa zapojili do podania projektu HORIZONT HORIZON-MSCA-2023-DN-01 (MSCA Doctoral Networks 2023) Topic: HORIZON-MSCA-2023-DN-01-01 Type of Action: HORIZON-TMA-MSCA-DN Proposal number: 101169084 Proposal acronym: BEE HEALTHY.

Pracovná skupina „Molekulárna imunológia“ pod vedením RNDr. Vladimíra Leksu, PhD. sa zapojila do riešenia projektov Plánu obnovy EÚ. Získali 2 projekty. Prvý, štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine (09I03-03-V01-00113), kde zodpovedný riešiteľ je RNDr. Tetiana Moskalets PhD. Druhý, „Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu“ (09I03-03-V02-00047), kde bol prijatý doktorand Mgr. Patrik Babulic.

Skupina „Laboratórium evolúcie proteínov“ (http://imb.savba.sk/~janecek/) vedená prof. Ing. Štefanom Janečkom, DrSc. patrí k popredným svetovým pracoviskám zapojeným do štúdia amylolytických enzýmov so špecializáciou na *in silico* prístupy. Spomedzi širokej medzinárodnej spolupráce je jednou z najvýznamnejších viac ako 25-ročná spolupráca s prof. Birte Svenssonovou (Danish Technical University, Kgs. Lyngby, Denmark), ktorá sa v roku 2023 prejavila aj v ďalšej spoločnej publikácii venovanej účinku škrob-viažúcej domény na aktivitu enzýmu 4-alfa-glukanotransferáza (doi: 10.3390/molecules28031320).

Pracovná skupina „Biochémia a štruktúra proteínov“ pod vedením Ing. Evy Kutejovej, DrSc. spolupracovala v roku 2022 s Dr. Jiřím Nováčkom CF CryoEM CEITEC, Masarykova univerzita v Brne na štúdiu štruktúry modifikovaných foriem ľudskej LON proteázy. Výsledky sú súčasťou APVV projektu a pripravovanej publikácie.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

Výsledok výskumu: V spolupráci so Štátnym veterinárnym a potravinovým ústavom v Bratislave sme akreditovali vyvinutú a optimalizovanú metodiku stanovenia antibakteriálneho potenciálu medu, komerčne dostupnú v rámci Európskej únie.
Kto využíva výsledok: hobby včelári, včelie farmy, spotrebitelia
Rok využívania od: 2022
Rok využívania do: trvá
Projekt: Medové laboratórium
Rok vytvorenia výsledku: 2020
Autori výsledku: Juraj Majtán, Marcela Bučeková, Jana Godočíková

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Laboratórium apidológie a apiterapie ÚMB SAV, v. v. i. pokračuje v poskytovaní komerčnej služby pre včelárov v rámci projektu "Medové laboratórium", ako aj v bezplatnej konzultácii pre včelárov. Laboratórium apidológie a apiterapie ÚMB SAV, v. v. i. sa podieľa aj na ďalších komerčných aktivitách a to vykonávaním vedeckých analýz prírodných produktov ako sú napr. extrakty húb pre súkromné tuzemské a zahraničné subjekty. V súvislosti s virtuálnym projektom "Medové laboratórium" a jeho ďalším rozvojom do medzinárodného priestoru, si ÚMB SAV, v. v. i., podal prihlášku o registrácii ochrannej známky " Honey laboratory", ktorú aj získal v priebehu roka. Dátum registrácie 12.05.2023, dátum ukončenia 23.01.2033, pod značkou EUIPO 018826777.
Link: https://euipo.europa.eu/eSearch/#details/trademarks/018826777

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2023

Forma	Počet k 31.12.2023				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2023					
							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	10	1	2	2	7	1	1	0	2	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	1	1	0	0	0	2	0	1	0	0	0	0
Spolu	5	11	1	2	2	9	1	2	0	2	0	0
Z toho zahraničných	0	1	0	0	1	0	1	0	0	0	0	0
Súhrn	16		3		11		3		2		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“.V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2023 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b 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

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2023 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Mgr. Veronika Bugárová	externé štúdium	10 / 2018	2 / 2023	1536 biológia	Ing. Juraj Majtán DrSc., MBA, FIFST, Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Andrej Poljovka	interné štúdium hradené z prostriedkov SAV	9 / 2019	8 / 2023	1536 biológia	RNDr. Marcel Zámocký DrSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Magdaléna Rusková	interné štúdium hradené z prostriedkov SAV	9 / 2019	7 / 2023	1536 biológia	Mgr. Andrea Puškárová PhD., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2023 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

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2023 (obhajoba leto 2023)	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
2	0	0	2	0

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	ITA/1, SRB/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.

5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 5g 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)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
chémia	1420	biochémia	Prírodovedecká fakulta UK
biológia	1536	mikrobiológia	Prírodovedecká fakulta UK
		molekulárna biológia	
		genetika	
	4.2.3	molekulárna biológia	Prírodovedecká fakulta UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Imrich Barák, DrSc. (mikrobiológia)	prof. Ing. Štefan Janeček, DrSc. (Fakulta prírodných vied UCM)	Mgr. Gábor Beke, PhD. (IIa)
RNDr. Gabriela Bukovská, CSc. (mikrobiológia)	Ing. Juraj Majtán, DrSc., MBA, FIFST (Slovenská zdravotnícka univerzita v Bratislave)	Mgr. Ján Jamroškovič, PhD. (IIa)
prof. Ing. Štefan Janeček, DrSc. (molekulárna biológia)		RNDr. Mária Kajsiková, PhD. (IIa)
RNDr. Ján Kormanec, DrSc. (biochémia)		Mgr. Nina Kunová, PhD. (IIa)
RNDr. Ján Kormanec, DrSc. (molekulárna biológia)		Mgr. Naďa Labajová, PhD. (IIa)
Ing. Eva Kutejová, DrSc. (chémia)		
RNDr. Vladimír Pevala, PhD. (genetika)		

Mgr. Andrea Puškárová, PhD. (mikrobiológia)		
RNDr. Ľubica Urbániková, CSc. (biochémia)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2023

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	10	0	11	0
Celkový počet hodín v r. 2023	222	0	297	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	19
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	27
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	11
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	16
5.	**Počet oponovaných dizertačných a habilitačných prác**	13
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	8
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	0
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	4
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	0

5.9. Iné dôležité informácie k pedagogickej činnosti

Pri doktorandskom štúdiu sa na Ústave molekulárnej biológie SAV, v. v. i. kladie dôraz na výber školiteľov, pri ktorých je nevyhnutnou podmienkou zabezpečiť krytie doktorandskej témy kvalitnými projektami a predpoklad solídnej publikačnej činnosti. Dôsledne uplatňujeme „Vnútorný systém zabezpečenia kvality doktorandského štúdia“ pri prijímaní nových doktorandov, ktorý bol prijatý v roku 2020.

V roku 2023 sa v našej organizácii uskutočňovalo doktorandské štúdium v štyroch študijných programoch: molekulárna biológia, mikrobiológia a genetika v odbore Biológia a biochémia v odbore Chémia, všetky v spolupráci s Prírodovedeckou fakultou UK Bratislava.

V priebehu roka 2023 sa u nás školilo v internej forme štúdia 14 doktorandov financovaných z prostriedkov SAV, v externej forme štúdia dvaja doktorandi. Začiatkom roka 2023 doktorandské štúdium predčasne ukončili dve doktorandky, Mgr. Monika Zámocká a Mgr. Romana Praženicová. V priebehu 2023 doktorandské štúdium ukončili úspešnou obhajobou a získali titul PhD.: Mgr. Veronika Bugárová, Mgr. Andrej Poljovka a Mgr. Magdaléna Rusková.

V roku 2023 naši vedeckí pracovníci vypísali 7 tém na doktorandské štúdium v štyroch študijných

programoch Prírodovedeckej fakulty UK v Bratislave, a to Molekulárna biológia, Mikrobiológia a Genetika v odbore Biológia a Biochémia v odbore Chémia. Následne v septembri 2023 nastúpili na internú formu doktorandského štúdia traja noví doktorandi, Mgr. Patrik Babulic v študijnom programe Genetika, Mgr. Dominika Galová v študijnom programe Molekulárna Biológia a Mgr. Andrea Vetráková v študijnom programe Genetika, pričom pre doktorandské štúdium Mgr. Patrika Babulica bola získaná podpora z plánu obnovy SR.

Boli schválení siedmi noví školitelia doktorandského štúdia Mgr. Marcela Bučeková, PhD., Mgr. Gábor Beke, Phd., Mgr. Zuzana Chromíková, PhD., Mgr. Ján Jamroškovič, PhD., RNDr. Mária Kajsiková, PhD., Mgr. Nina Kunová, PhD., Mgr. Naďa Labajová, PhD. v študijných programoch biochémia, genetika, mikrobiológia a molekulárna biológia.
Naši doktorandi sa aktívne zapájajú do vedeckého a spoločenského života ÚMB SAV, v. v. i. Mnohí z nich viedli v roku 2023 semináre a cvičenia na príslušných katedrách Prírodovedeckej fakulty UK, oponovali bakalárske práce a niektorí sa aktívne zúčastnili výuky na strednej škole a pod.
Do programu grantov pre doktorandov SAV (DoktoGrant) sa v roku 2023 zapojili piati naši doktorandi, Mgr. Milan Hučko, Mgr. Bohuš Kubala, Mgr. Nikola Klištincová, Mgr. Silvia Žarnovičanová, a Mgr. Adam Poláček. DoktoGrant získali Mgr. Silvia Žarnovičanová a Mgr. Adam Poláček. Okrem toho tento rok, sa naši študenti prvýkrát zapojili do programu pre Motivačné štipendiá SAV, kde bolo úspešných sedem doktorandov.
Aby sa odborná verejnosť našej inštitúcie oboznámila s aktuálnymi vedeckými poznatkami, inovatívnymi metódami a novými prebiehajúcimi projektami, poriadame prezenčne každý týždeň ústavné semináre. V rámci pravidelných ústavných seminárov je prezentovaný aj progres prípravy dizertačných prác našich doktorandov.

Aby sme zabezpečili kariérny rast vedeckých pracovníkov, naďalej maximálne podporujeme krátkodobé i dlhodobejšie pobyty na zahraničných pracoviskách, workshopoch a kurzoch, ktoré by pomohli priniesť na ústav nové vedomosti a praktické skúsenosti, ale aj nadšenie a inšpiráciu.

Okrem doktorandského štúdia sa viacerí pracovníci ústavu aktívne podieľali na pedagogickom procese na viacerých slovenských (Prírodovedecká fakulta UK v Bratislave, Fakulta prírodných vied UCM v Trnave) a zahraničných univerzitách (Ultrecht University, Holandsko), vedením bakalárskych aj diplomových prác a preddiplomovej praxe študentov, ako aj vedením seminárov, praktických cvičení a prednášok. Na našom pracovisku dlhodobo školíme poslucháčov bakalárskeho a magisterského stupňa Prírodovedeckej fakulty UK, najmä z Katedry molekulárnej biológie, Katedry mikrobiológie a virológie, Katedry biochémie a Katedry genetiky, ako aj z Fakulty prírodných vied UCM v Trnave. Okrem toho sa naši vedeckí pracovníci venujú aj študentom stredných škôl, ktorí majú každoročne možnosť zúčastniť sa našich prednášok v rámci akcie „Deň otvorených dverí“, v roku 2023 realizovaných už prezenčnou formou. V prípade záujmu majú stredoškolskí študenti možnosť získavať skúsenosti pri práci v laboratóriu, prípadne sa so svojimi výsledkami zúčastňovať aj súťaže SVOČ.

V roku 2023 prejavil záujem o spoluprácu s našou inštitúciou študent z Gymnázia Grösslingová v Bratislave za účelom vypracovania príspevku na Biologickú olympiádu pod vedením RNDr. Lucie Bocánovej, PhD.

V rámci európskeho výmenného programu ERASMUS+ absolvovali výmenný pobyt na našej inštitúcii celkovo traja zahraniční študenti:

- na oddelení „Mikrobiálnej genetiky“ pod vedením RNDr. Imricha Baráka, DrSc., študentka Univerzity Novi Sad, Srbsko, Theodora Dakovic od 26.06.2023 do 15.09.2023;
- na oddelení „Mikrobiálnej ekológie“ pod vedením Dr. Domenca Pangalla, DrSc., študenti Maria Teresa Rodinó z University of Reggio Calabria, Taliansko, po dobu 3 mesiacov (október - december 2023) a Alesssio Fontanot z University of Florence, Taliansko, po dobu 3 mesiacov (január – marec 2023). Výmenný pobyt po dobu 9 mesiacov (marec – december 2023) založený na dohode s Univerzitou v Chieti, Taliansko, absolvoval aj študent Pierluca

Nuccetelli, tiež na oddelení “Mikrobiálnej ekológie“, pod vedením Dr. Domenica Pangalla, DrSc.

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Universität Wien, Rakúsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2009
Zhodnotenie: Max Perutz Labs: kryštalizácia a X-ray analýza bielkovín Medical University: Charakterizácia proteínov zodpovedných za kontrolu proteolýzy na povrchu bunky.

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

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

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

Názov inštitúcie: Future Farming s.r.o. Brno
Oblasť spolupráce: výskum rôznych antioxidantov z prírodných zdrojov
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2022
Zhodnotenie: V tomto roku sa spolupráca rozbehla a dosiahnuté výsledky v oblasti výskumu enzýmových antioxidantov boli prezentované formou prednášky na konferencii Green for Good VI v Olomouci, Česká republika.

Názov inštitúcie: Slovenský zväz včelárov
Oblasť spolupráce: Spolupráca v oblasti výskumu medu
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2021
Zhodnotenie: Spolupráca ÚMB SAV, v. v. i. so Slovenským zväzom včelárov na základe memoranda o vzájomnej spolupráci. Memorandum bolo podpísané za účelom dosiahnutia spolupráce v oblasti výskumu medu, a to charakterizovaním nových kvalitatívnych parametrov medu, ako aj optimalizáciou technologických spôsobov spracovania medu so zameraním na zvyšovanie kvality medu a zachovania jeho zdraviu prospešných vlastností.

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Názov univerzity/vysokej školy a fakulty: University of Natural Resources and Life Sciences vo Viedni. Oblasť spolupráce: základný výskum. Zhodnotenie: Dlhodobá spolupráca s univerzitovu na projekte "Molecular Evolution of Heme Peroxidases from Cephalochordata" (s označením P 31707-B32), ktorý viedol k trom spoločným publikáciám.

Názov univerzity/vysokej školy a fakulty: Cardiff University, Wales, UK. Oblasť spolupráce: základný výskum. Sídlo spoločného pracoviska (ak je vytvorené): Začiatok spolupráce: 2009 – trvá. Zhodnotenie: Spolupráca je zameraná na charakterizáciu rekombinantne pripravených domén ľudského ryanodínového receptora 2, exprimovaného predovšetkým v srdcovom svale. V rámci spolupráce bolo publikovaných niekoľko publikácií v zahraničných karentovaných časopisoch.

Názov univerzity/vysokej školy a fakulty: Ecole Polytechnique Federale de Lausanne, Švajčiarsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2014 - trvá. Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: Přírodovědná fakulta ‚Masarykova Universita Brno, CEITEC Brno, Česká republika. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2011- trvá. Zhodnotenie: Elektrónová mikroskopia mutantov ľudskej mitochondriálnej LON proteázy a MS analýzy modifikovaných proteínov.

Názov univerzity/vysokej školy a fakulty: Technical University of Denmark, Kgs. Lyngby, Dánsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 1995 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu amylolytických enzýmov a ich škrob-viažucich domén in silico prístupmi so zameraním na ich sekvencie, štruktúry, funkcie a evolúciu.

Názov univerzity/vysokej školy a fakulty: University of Groningen, Groningen, Holandsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2016 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu štruktúry, funkcie a evolúcie amylolytických enzýmov so zameraním na unikátne črty v ich sekvenciách.

Názov univerzity/vysokej školy a fakulty: University of Novi Sad, Srbsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2014 - trvá. Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: University of York, Veľká Británia. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 1995 - trvá. Zhodnotenie: V rámci tejto spolupráce bolo niekoľko spoločných grantových projektov a to konkrétne 3 x z The Wellcome Trust a 1 x z The Royal Society. Spolupráca sa dlhodobo týka štúdia základných bunkových procesov u Bacillus subtilis na molekulovej úrovni.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2011 - trvá. Zhodnotenie: Štúdium bakteriofágov a fágových lytických proteínov.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2010 - trvá. Zhodnotenie: Štúdium mitochondriálnych proteínov.

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	2	tlač	3	TV	0
rozhlas	1	internet	12	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				
prednášky/besedy	2	tlač	3	TV	0
rozhlas	1	internet	12	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

7.3. Účasť na výstavách

Názov výstavy: Malá projektová schéma SAV 2023
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 1.5.2023
Zhodnotenie účasti: Náš ústav sa zapojil do výzvy na predkladanie žiadosti o podporu projektov v Malej projektovej schéme SAV 2023, na podporu popularizácie vedy a jej prezentáciu smerom k širokej verejnosti. Do tejto výzvy sme sa zapojili projektom Mgr. R. Novákovej, CSc. a kol. s názvom "Nenahraditeľné mikróby", ktorého cieľom bola edukácia a motivácia širokej verejnosti a študentov základných a stredných škôl prostredníctvom zážitkového a experimentálneho učenia sa. Projekt sa zameriaval na rozvíjanie vzťahov k obklopujúcemu prírodnému prostrediu. Získanú dotáciu na projekt, sme použili na výrobu pomôcok (3D modelov mikroorganizmov, štruktúr proteínov a pod.) a výrobu sklenených nádob na maľovanie pôdnymi baktériami. Tieto pomôcky boli celý rok využívané na vedecko-popularizačných podujatiach pre verejnosť (Víkend so SAV, Letná škola mladých vedcov, Noc výskumníkov, Deň otvorených dverí a pod.) ako aj prednáškach, exkurziách a riešených SOČ. Do riešeného projektu boli zapojené všetky oddelenia ústavu.

Názov výstavy: Víkend s SAV
Miesto konania: Námestie M.R.Štefánika – Eurovea, Bratislava
Dátum: 23.6.2023
Zhodnotenie účasti: Naše pracovisko sa zapojilo do popularizačného podujatia Víkend s SAV prezentáciou vo forme stánku s názvom "Nenahraditeľné mikróby". Táto téma zahŕňala prácu väčšinyskupín na našom ústave. Bola rozdelená do štyroch častí (I. Mikróby v priemysle a medicíne, II. Antimikrobiálne látky a pigmenty, III. Mikróby a potraviny, IV. Kvíz o mikróboch – „Koleso šťastia“ a súťaž pre návštevníkov – „Kreslenie pôdnymi baktériami“). Na podujatí sa zúčastnilo 15 našich zamestnancov zo všetkých oddelení a táto aktivita sa stretla s výrazne pozitívnym ohlasom. Viac ako 45 návštevníkov sa zapojilo do súťaže „Kreslenie pôdnymi baktériami“, obrázky zo súťaže boli priebežne zverejňované na našich sociálnych sieťach. Traja výhercovia získali hlavnú cenu – „Exkurziu na Ústave molekulárnej biológie“. Ostatní výhercovia boli ocenení balíčkom „Mladý mikrobiológ“.

Názov výstavy: Letná škola mladých vedcov (all4science) 2023
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 17.7.2023
Zhodnotenie účasti: Oddelenie genomiky a biotechnológie nášho ústavu sa tento rok zapojilo do Letnej školy mladých vedcov (all4science) organizovanej pre žiakov vo veku od 12 do 17 rokov, ktorí strávili týždeň v prostredí Slovenskej akadémie vied, kde zažili vedu, pokusy a stretnutia s vedcami. Štyria vybraní žiaci si mali môžnosť týždeň na našom ústave vyskúšať rôzne experimenty a vypočuť prednášky v rámci riešenej témy „Skrytý potenciál mikróbov a vírusov“, pod vedením RNDr. L. Bocánovej, PhD., Mgr. R. Novákovej, CSc., RNDr. M.Kajsikovej, PhD., RNDr. R. Javorovej a Mgr. K. Pápayovej a Mgr. Vladeny Bauerovej, PhD. Záverom pobytu bolo vyhodnotenie a fotodokumentácia výsledkov prezentovaná posterovou prezentáciou „Skrytý potenciál mikróbov a vírusov“ spojenej s diskusiou k získaným výsledkom na spoločnej záverečnej akcii všetkých účastníkov Letnej školy mladých vedcov.

Názov výstavy: Európska Noc výskumníkov 2023
Miesto konania: Stará tržnica, Bratislava
Dátum: 29.9.2023
Zhodnotenie účasti: Naše pracovisko sa na festivale vedy Európska Noc výskumníkov 2023 prezentovalo so stánkom "Nenahraditeľné mikróby". Téma bola zameraná na využitie mikróbov v priemysle, medicíne a potravinárstve, ako aj antimikrobiálnym látkam a pigmentom, ktoré tieto mikroorganizmy produkujú. Prezentácia bola obohatená množstvom pokusov pre malých aj veľkých návštevníkov. Na podujatí sa zúčastnilo 16 našich zamestnancov zo všetkých oddelení ústavu, táto aktivita sa stretla s výrazne pozitívnym ohlasom.

Názov výstavy: Európska Noc výskumníkov 2023 – Navštív svoju školu – Spoznaj svojho vedca
Miesto konania: ZŠ Morovnianska cesta, Handlová
Dátum: 2.10.2023
Zhodnotenie účasti: Naše pracovisko sa v rámci festivalu vedy Európska Noc výskumníkov 2023 zapojilo do programu Navštív svoju školu – Spoznaj svojho vedca. RNDr. Ráchel Javorová prezentovala tému Streptomycéty – užitočné baktérie, ktorej sa venujeme na Oddelení genomiky a biotechnológií na našom ústave, študentom deviateho ročníka Základnej školy na Morovnianskej ceste v Handlovej. Prezentácia bola obohatená o názorné ukážky pôdnych baktérií streptomycét (významných producentov väčšiny pigmentov a antibiotík), extrakciu modrého pigmentu indigoidínu a kreslenie na Petriho misky s tuhým živným médiom pôdnymi baktériami. Podujatie sa stretlo s pozitívnym ohlasom zo strany študentov aj učiteľov.

Názov výstavy: Týždeň vedy a techniky 2023
Miesto konania: Deň otvorených dverí ÚMB SAV v. v. i. , Bratislava
Dátum: 7.11.2023
Zhodnotenie účasti: V rámci Týždňa vedy a techniky na Slovensku 2023, usporiadalo naše pracovisko Deň otvorených dverí, ktorého súčasťou boli dve prednášky (RNDr. Ľubica Urbániková, CSc., „Za každým kryštálom hľadaj štruktúru!“, a Mgr. Silvia Žarnovičanová, Mgr. Andrea Vetráková, „Bakteriálny svet okolo nás" Podujatia sa zúčastnili žiaci gymnázia na Metodovej ulici v Bratislave a verejnosť. Po prednáškach nasledovala praktická prezentácia: „Nenahraditeľné mikróby“. Celý deň sa niesol v duchu spoznávania mikróbov a ich prírodných produktovs využitím v bežnom živote a úlohy proteínov pre fungovanie živých organizmov.Na praktických príkladoch sme účastníkom vysvetľovali význam poznania štruktúry proteínov a nevyhnutnosť prípravy proteínových kryštálov. Potom nasledovala prehliadka laboratórií. Študentom sa páčili 3D modely baktérií, obrázky maľované pôdnymi baktériami a ukážky kryštalizácie. Najväčší úspech mala prehliadka Kryštalizačného laboratória - jediného svojho druhu na Slovensku.

Názov výstavy: COINTT 2023
Miesto konania: Hotel Saffron, Bratislava
Dátum: 24.10.2023
Zhodnotenie účasti: V rámci EXPO stánku SAV sa pracovná skupina Genomika zúčastnila a prezentovala video-prezentáciou "Antimikrobiálny rekombinantný proteín s lytickými vlastnosťami voči patogénnym baktériám". Zároveň bola zverejnená ponuka expertíznej činnosti expertov z ÚMB SAV, v. v. i.

Názov výstavy: online Vianočná dražba – „Modrá hliadka“
Miesto konania: https://www.modrahliadka.sk/vianocnadrazba/
Dátum: 1.12.2023
Zhodnotenie účasti: Koncom roka sa náš ústav zapojil do online vianočnej dražby – „Modrá hliadka“ (1.-24.12.2023), ktorej výťažok sa použije výhradne na činnosť občianskeho združenia Modrá hliadka, ktoré šíri povedomie o autizme, neurodiverzite a inklúzii s cenou – „Exkurzia na Ústave molekulárnej biológie“. Táto exkurzia kolektívu výhercov priblíži vedecké laboratóriá a bližšie spoznávanie mikróbov a ich prírodných produktov s využitím v bežnom živote.

Názov výstavy: Vedecká podpora projektu - Inovačný projekt FLL 2023/24 - YIL
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 1.12.2023
Zhodnotenie účasti: Tím mladých inovátorov z rôznych škôl, ktorých spája záujem o LEGO, programovanie, experimentovanie a vedu sa zapojili do súťaže FLL (First Lego League) inovačným projektom “Kreslenie baktériami”. Témou projektu bolo využitie technológie a umenia na upútanie ostatných alebo zvýšenie účasti na tom čo radi robíte. Časťou projektu, ktorý propaguje vedu bola aj návšteva laboratória oddelenia Genomiky a biotechnológie na našom ústave a kreslenie pôdnymi baktériami pod vedením Mgr. R. Novákovej, CSc. a RNDr. L.Bocánovej, PhD., ktorá bola spojená s odborným výkladom a diskusiou: „Na čo všetko sa vo výskume používajú pôdne a iné baktérie“. Výstupy z projektu boli propagované na sociálnych sieťach nášho ústavu ako aj na web stránke mladých inovátorov https://www.yil.sk/domov

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

RNDr. Imrich Barák, DrSc.

Frontiers in Microbiology (funkcia: Associate Editor)

RNDr. Gabriela Bukovská, CSc.

Acta Virologica (funkcia: Editorial Board member- Reviewer)

prof. Ing. Štefan Janeček, DrSc.

3Biotech (funkcia: Associate Editor)
Biologia (funkcia: Managing Editor, section Cellular and Molecular Biology)
Enzyme and Microbial Technology (funkcia: Editorial Board member)
Journal of Applied Glycoscience (funkcia: Editorial Board member)
Molecules, section Bioorganic Chemistry (funkcia: Editorial Board member)

Nova Biotechnologica et Chimica (funkcia: Editorial Board member)

RNDr. František Jurský, CSc.

Frontiers in Molecular Neuroscience (funkcia: Review editor)

Mgr. Ľuboš Kľučár, PhD.

Embnet.journal (funkcia: Executive Editorial Board member)

RNDr. Ján Kormanec, DrSc.

Frontiers in Microbiology (funkcia: Editorial Board member)
International Journal of Molecular Sciences (funkcia: member of Editorial board)

Mgr. Naďa Labajová, PhD.

Frontiers in Microbiology (funkcia: Review editor)

Ing. Juraj Majtán, DrSc., MBA, FIFST

Asian Pacific Journal of Tropical Biomedicine (funkcia: Editorial Board member)
Evidence-Based Complementary and Alternative Medicine (funkcia: Editorial Board member)
Frontiers in Microbiology (section: Food Microbiology) (funkcia: Editorial Board member)
Heliyon (funkcia: Editorial Board member)
Molecules (funkcia: Editorial Board member)
Scientific Reports (funkcia: Editorial Board member)
Včelár (funkcia: Editorial Board member)

RNDr. Marcel Zámocký, DrSc.

Antioxidants Basel (MDPI) (funkcia: Topic editor)
Biology Basel (MDPI) (funkcia: Guest editor)
Frontiers in Molecular Biosciences (funkcia: Guest editor)
The Open Biochemistry Journal (funkcia: member)

7.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Ján Kormanec, DrSc.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen výboru)

Ing. Juraj Majtán, DrSc., MBA, FIFST

Slovenská apiterapeutická spoločnosť (funkcia: člen výboru spoločnosti)

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

V roku 2023 boli na Ústave molekulárnej biológie SAV, v. v. i. založené sociálne siete (Facebook, Instagram, Twitter, LinkedIn, YouTube), prostredníctvom ktorých chceme sprístupniť naše aktivity širšej verejnosti.

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

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
RNDr. Imrich Barák, DrSc.	Komisia pre koordináciu aktivít SR v projektoch ESFRI orientovaných na materiály, fyzikálne vedy, s aplikačným potenciálom v biologických a medicínskych vedách, v chemických vedách a IT	člen
	SFX Management Board at European XFEL (X-ray Free Electron Laser) in Hamburg, Germany	člen
	XBI "Management Board at European XFEL (X-ray Free Electron Laser)" v Hamburgu, Nemecko	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore biochémia	člen
	Komisia pri Monitorovacom výbore pre Program Slovensko 2021 – 2027	pozorovateľ
	Koordinačná platformy RVVTI	člen
RNDr. Peter Ferianc, CSc.	Zbor expertov pre biologickú bezpečnosť Ministerstva životného prostredia SR	člen
prof. Ing. Štefan Janeček, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	predseda
RNDr. Ján Kormanec, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	predseda
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore virológia	člen
Ing. Juraj Majtán, DrSc., MBA, FIFST	Odborná pracovná skupina pre farmakoekonomiku, klinické výstupy a hodnotenie zdravotníckych technológií MZ SR	člen
RNDr. Vladimír Pevala, PhD.	Komisia pre biologickú bezpečnosť	člen

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

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
RNDr. Imrich Barák, DrSc.	Predsedníctvo APVV	člen
RNDr. Ján Kormanec, DrSc.	Rada APVV pre prírodné vedy	člen
Ing. Juraj Majtán, DrSc., MBA, FIFST	Rada APVV pre prírodné vedy	člen

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

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

Mgr. Ľuboš Kľučár, PhD.

- člen
- predseda
- predseda II. komory

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

RNDr. Imrich Barák, DrSc.

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

Mgr. Ľuboš Kľučár, PhD.

- Akreditačná komisia SAV (člen)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre zahraničné styky (člen)

RNDr. Ján Kormanec, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

RNDr. Katarína Muchová, CSc.

- Komisia SAV pre životné prostredie a klimatickú zmenu (tajomníčka)

Mgr. Renáta Nováková, CSc.

- Etická komisia SAV (člen)

9.4. Členstvo v orgánoch VEGA

RNDr. Imrich Barák, DrSc.

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

Ing. Juraj Majtán, DrSc., MBA, FIFST

- Komisia VEGA č. 4 (člen)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Ústav molekulárnej biológie, v. v. i. sa pripojil k Plánu rodovej rovnosti Slovenskej akadémie vied (PRR, Gender Equality Plan), ktorý bol na našom ústave prijatý ku dňu 2.1.2023.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Výskumní pracovníci našej oragnizácie sú prijímaní a zapojení do projektov na základe svojich odborných znalostí a skúseností v oblasti molekulárnej biológie, biochémie, bunkovej biológie, mikrobiológie, medicíny, proteomiky, transkriptomiky a štrukturálnej biológie bez ohľadu na ich pohlavie, národnosť a vierovyznanie. Prijímame všetky zapojené pincípy z Plánu rodovej rovnosti, ktorý je dostupný na webovom sídle našej inštitúcie.
V zmysle našich spoločných projektov všetky pracovné oddelenia plne akceptujú princípy otvorenej vedy, ktorá zahŕňa výskumný proces založený na spolupráci, zdieľaní a otvorenom šírení poznatkov prostredníctvom optimálneho využívania digitálnych technológií a uplatňovania princípov otvorenosti v každom aspekte výskumného cyklu.

Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	13	8	5	1	0	1
2. Projekty APVV	10	8	2	6	6	0
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	2	1	1	1	1	0
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	1	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	3	2	1
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	0	0	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1	0	0	0
7. Bilaterálne projekty ostatné	1	1	0	1	1	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	1	1	0

10.2.2. Výskum zameraný na rodovú problematiku

Naša organizácia zatiaľ nie je zapojená do projektov orientovaných na rodovú problematiku.
Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Na ústave pracuje Základná odborová organizácia Odborového zväzu SAV (ZO OZ SAV). Odborový zväz SAV je členom KOZ, Konfederácie odborových zväzov SR, ktorá zastrešuje vyše

20 odborových organizácií. V Kolektívnej zmluve (KZ), ktorú každoročne uzatvára ZO OZ SAV s vedením ústavu, sú dohodnuté lepšie podmienky, ako ustanovuje Zákonník práce a Kolektívna zmluva vyššieho stupňa. Ide najmä o zvýšenie odchodného nad rozsah ustanovený v Zákonníku práce o jeden, resp. dva mesačné zárobky (ak zamestnanec odpracoval v organizácii najmenej 15 rokov) a predĺženie základnej výmery dovolenky nevedeckých pracovníkov o jeden týždeň na celkových 6, resp.7 týždňov.

V KZ je dohodnutá voľná pracovná doba, výplatný termín, včasné oznámenie nepredĺženia pracovnej zmluvy a sú špecifikované aj ďalšie ustanovenia nad rámec Zákonníka práce, ktorými zamestnávateľ vychádza v ústrety zamestnancom. K už tradičným benefitom (mesačne jeden deň náhradného voľna pre rodičov maloletých detí, mesačne jeden deň náhradného voľna zo zdravotných dôvodov, možnosť práce z domu po dohode s vedúcim) v tomto roku pribudlo predĺženie termínovaných pracovných zmlúv zamestnancom na materskej alebo rodičovskej dovolenke až do jej ukončenia.

Tvorba sociálneho fondu bola na rok 2023 dohodnutá vo výške 1,25% zo súhrnu hrubých platov zúčtovaných zamestnancom na výplatu za kalendárny rok, ale z finančných dôvodov bola od 1.9.2023 znížená na 1.05%. Sociálny fond je primárne určený na realizáciu sociálnej politiky zamestnávateľa. Umožňuje zamestnancom, ktorí sa ocitnú v zložitých sociálnych situáciách požiadať o finančnú podporu, ale v praxi sa čerpá hlavne na dodatočný príspevok na stravovanie zamestnancov (0,85 € na každý "stravný lístok" nad povinný príspevok zamestnávateľa).

Ústav sa snaží v rámci finančných možností zlepšovať pracovné prostredie. V tomto roku prebehla oprava stúpačiek v hlavnej budove a rozvodov vody vo vedľajšej budove (zlepšila sa tým okrem iného kvalita vody), vymenili sa žalúzie a sieťky proti hmyzu na oknách a obnovili sa svietidlá v celom ústave. Na ústave bola tiež urobená kompletná rekonštrukcia kotolne (výmena 5 kotlov za dva, zateplenie rozvodov, výmena komína a nastavenie regulácie kúrenia a dodávky teplej vody).

K dobrej a priateľskej atmosfére prispievajú spoločenské akcie organizované na našom pracovisku. V tomto roku sa konalo pečenie fašiangových šišiek, varenie gulášu (organizovali doktorandi), vianočný večierok. Obnovili sme spoločné kávové prestávky, k čomu prispel ústav zriadením kuchynky a kávového kútika v priestoroch konferenčnej miestnosti.

Uveďte stručné, základné informácie k problematike.

11. Organizačné a právne zmeny v organizácii

11.1. Informácie o vnútorných organizačných zmenách

V priebehu roka 2023 nenastali v ÚMB SAV, v. v. i., žiadne organizačné zmeny.
Uveďte stručné, základné informácie k problematike.

11.2. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

V priebehu roka 2023 prijali Snem SAV a Predsedníctvo SAV zmeny v niekoľkých vnútorných predpisoch:

- Pravidlá odmeňovania riaditeľa verejnej výskumnej inštitúcie založenej Slovenskou akadémiou vied
- Pravidlá odmeňovania vedúceho organizačnej zložky verejnej výskumnej inštitúcie založenej Slovenskou akadémiou vied

Tieto pravidlá nadobudli účinnosť 28.6.2023.

- Pravidlá výberového konania na obsadzovanie miesta riaditeľa verejnej výskumnej inštitúcie
- Pravidlá výberového konania na obsadzovanie miesta vedúceho organizačnej zložky verejnej výskumnej inštitúcie

Tieto pravidlá nadobudli účinnosť 27.11.2023.
Uveďte stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		4577
z toho	knihy a zviazané periodiká	4577
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

*Výraz **„v tom“** označuje úplné (vyčerpávajúce) 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“.*

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	
Návštevníci knižnice spolu (bez návštevníkov podujatí)	

12.4. Iné údaje

Tabuľka 12d Iné údaje

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

12.5. Iné informácie o knižničnej činnosti

Od roku 2009 je výpožičná služba knižnice pozastavená.

13. Nadácie a fondy pri organizácii

nemáme

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Pravidelné hodnotenie vedeckých organizácií SAV za obdobie 2016 - 2021 zaradilo ÚMB SAV, v. v. i., do kategórie „B“ s charakteristikou:

Výskum je viditeľný na európskej úrovni. Organizácia prispieva hodnotnými výsledkami k rozvoju vednej oblasti v Európe.

Celkové posúdenie akreditačnou komisiou

Ústav je založený na solídnom výskumnom a ľudskom potenciáli, ktorý by sa mal naplno rozvinúť v nasledujúcom hodnotiacom období.

Pripomienky a odporúčania pre budúce zlepšovanie organizácie

- Je potrebné vyvinúť úsilie smerom k ďalšiemu zvyšovaniu medzinárodnej spolupráce, ktoré by umožnilo podávanie žiadostí v konkurenčnom medzinárodnom financovaní;
- následne by sa malo všetko úsilie vynaložiť na zvýšenie vedeckej viditeľnosti organizácie prostredníctvom vyššieho publikačného profilu, s väčším počtom článkov v špičkových časopisoch;
- organizácia by mali byť proaktívnejšia v získavaní nových doktorandov, najmä z medzinárodného prostredia;
- organizácia by mala zintenzívniť svoje aktivity zamerané na verejnosť;
- pozornosť by sa mala venovať správe duševného vlastníctva a jeho výhodnejšiemu inštitucionálnemu využitiu; malo by sa zvážiť rozšírenie komerčných činností s cieľom vytvoriť dodatočné finančné príjmy pre výskum.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Vzhľadom na časovú zaneprázdnenosť členov nášho medzinárodného poradného výboru (MPV), sa nám podarilo zorganizovať osobne stretnutie jeho členov s naším vedením, vedeckou radou a celou akademickou obcou až koncom novembra 2023. Vzhľadom na to sa príprava akčného plánu na nasledujúce roky, obsah ktorého bude do značnej miery založený aj na výsledkoch tohto stretnutia, oneskorila a akčný plán bude finalizovaný až začiatkom roku 2024.

Medzi základné odporúčania nášho MPV patrí potreba aktívneho zapájania sa do väčších medzinárodných spoluprác, kde veľmi výhodným a jednoduchým spôsobom je väčšia aktivita v COST projektoch, ktoré okrem spoločných stretnutí a konferencií poskytujú aj možnosti pre krátkodobé vedecké pobyty na zahraničných pracoviskách, ako aj prijímanie zahraničných pracovníkov na krátkodobé pobyty u nás. Vedúci pracovných skupín by mali zvážiť aj účasť na doktorandských sieťach EÚ programov Marie-Sklodowska-Curie, ktoré predstavujú ďalšiu príležitosť na nadviazanie novej spolupráce s európskymi kolegami a malými a strednými podnikmi (SME). Spolupráca s Viedenskou univerzitou, ktorá viedla k vybudovaniu unikátneho kryštalografického laboratória z európskych fondov, je výborným príkladom nadviazania nových a potrebných medzinárodných spoluprác. Vzhľadom na vyššie uvedené, sme už v roku 2023 zvýšili svoju účasť na COST projektoch a ako participujúci člen konzorcia “Bee Health“ sme podali projekt v rámci výzvy HORIZON-MSCA-2023-DN-01 pre získanie špičkových zahraničných študentov doktorandského štúdia na ÚMB SAV, v. v. i.

Podobne, väčšie zapojenie sa do výmenných programov ERASMUS môže organizáciu zviditeľniť aj medzi mladou vedeckou komunitou a pritiahnuť nových zahraničných kandidátov na

doktorandské štúdium. Taktiež pedagogické aktivity na univerzitách zviditeľňujú organizáciu a prinášajú mnohé ďalšie benefity. Je potrebné uchádzať sa v čo najväčšej miere aj o grantové schémy SAV, podobne ako tomu bolo v prípade úspešného získania finančnej podpory z programu IMPULZ pre nových perspektívnych vedúcich pracovných skupín. Zároveň je dôležité a potrebné zvážiť uchádzanie sa perspektívnych pracovníkov o ERC grant, v rámci čoho je potrebné a nutné využiť všetku dostupnú podporu pre prípravu žiadosti tak na národnej úrovni, ako aj od samotného ERC. Významné je aj zapájanie sa do výziev Plánu obnovy, v rámci ktorého podala naša organizácia už niekoľko žiadostí. V prípade ich akceptovania sa vytvoria veľmi solídne podmienky na podporu mladých vedeckých pracovníkov, ako aj na nákup prístrojovej infraštruktúry.

Vzhľadom na obmedzené finančné zdroje je nevyhnutne transformovať existujúce, ako aj nové aplikačné aktivity smerom k výraznejším finančným ziskom. Je užitočné naučiť sa využívať aj nové prístupy vedeckého bádania, medzi ktoré patrí napríklad aj finančne nenáročné spracovanie a porovnanie vlastných výsledkov s inými verejne dostupnými údajmi.

14.3. Aktualizácia Akčného plánu organizácie v roku 2023

V roku 2023 prebiehala príprava aktuálneho akčného plánu zameraného na skvalitnenie a zefektívnenie vedeckej činnosti organizácie po poslednom pravidelnom hodnotení organizácií SAV.

15. Iné významné činnosti organizácie SAV

ÚMB SAV, v. v. i. je majiteľom sekcie Cellular and Molecular Biology medzinárodného časopisu Biologia evidovaného v Current Contens a Web of Science s IF 2022: 1,5. Časopis je od roku 2018 pod vydavateľstvom Springer. Manažérskym editorom tejto sekcie je prof. Ing. Štefan Janeček, DrSc.

ÚMB SAV, v. v. i. vykonáva od roku 1999 s mandátom MŠVVaŠ SR funkciu Národného uzla organizácie EMBnet (The Global Bioinformatics Network). Táto organizácia vznikla v roku 1988 za účelom spojiť jednotlivé európske pracoviská, ktoré sa zaoberajú využitím bioinformatiky a *in silico* analýzy. Hlavnou náplňou činnosti Národného uzla je administrácia rozsiahleho biologického výpočtového systému, školenia a kurzy zamerané na ich využitie, ako aj spolupráca s inými vedeckými projektmi v oblasti bioinformatiky. Národný uzol je jediným slovenským centrom, ktoré udržiava a poskytuje analyzačné balíky Galaxy a Chipster určené na analýzu high-throughput dát (DNA čipy, NGS) pre potreby národnej vedeckej komunity. Naše pracovisko sa priamo podieľa aj na tvorbe medzinárodného peer-review časopisu EMBnet.journal (journal.embnet.org), zameraného hlavne na praktickú bioinformatiku.

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

V roku 2023 nebola prijatá žiadna žiadosť o prístup k informáciám.

Uveďte informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV

Podobne ako v predchádzajúcom období chceme upozorniť na problémy, ktoré majú dlhodobejší charakter:

Podpora marketingových aktivít zo strany Predsedníctva SAV (P SAV) v komercializácii vedeckých výsledkov:

Orientácia na aplikovaný výskum a predovšetkým komercializácia vedeckých výstupov v rámci ústavov SAV predstavuje dôležitý krok k získavaniu ďalších finančných prostriedkov. Odporúčania meta-panelu v ostatnom akreditačnom hodnotení ústavov SAV jasne poukazujú na nedostatok komercializácie výsledkov. Pre komerčné použitie získaných výsledkov je potrebné o nich informovať širokú verejnosť, resp. podniknúť ďalšie nevyhnutné marketingové kroky. Keďže naštartovanie marketingových aktivít, ako sú napr. založenie webových stránok a registrácia ochranných známok je finančne náročnejšie, uvítali by sme v tomto smere aktivity P SAV napr. formou podpory najlepších komerčných projektov, ktoré by boli hodnotené novo-vymenovanou komisiou P SAV a ktoré majú najväčší komerčný potenciál. Mohlo by sa jednať o tzv. „štartovací balíček“ v celkovej hodnote rádovo 5000 eur na pokrytie základných marketingových potrieb.

ÚMB SAV, v. v. i. navrhuje, aby P SAV spolu s vedením jednotlivých ústavov hľadalo riešenie pre efektívnejšie využívanie špičkových prístrojov, ktoré ústavy či centrá získali zo štrukturálnych a iných verejných zdrojov a ktoré by mali záujem využívať aj iní pracovníci. Všeobecná dostupnosť a prípadne odborný servis tu neexistuje. Údaje, ktoré sa dajú získať z webovej stránky SAV (Výskumná infraštruktúra SAV) sú nevyhovujúce, často neúplné, bez potrebných detailov. Koordinácia využívania vysoko sofistikovaných špičkových prístrojov by určite viedla k zlepšeniu spolupráce medzi jednotlivými pracoviskami, ich vedeckých výstupov a hodnotenia SAV ako vedeckej inštitúcie.

Privítali by sme väčšiu finančnú podporu Fondu Štefana Schwarza tak, aby v prípade výskytu viacerých vysoko kvalitných projektov ich bolo možné financovať. Je veľmi dôležité, aby nám talentovaní mladí vedeckí pracovníci neodchádzali do zahraničia alebo do komerčnej sféry.

P SAV by malo uvažovať o krátkom workshope zameranom na pravidlá čerpania finančných prostriedkov z projektov SASPRO a Impulz. Jeho nositelia ako zahraniční vedci alebo slovenskí vedci dlhodobejšie pracujúci v zahraničí by sa potrebovali oboznámiť zo zásadami a zákonmi, ktoré platia pri financovaní projektov na Slovensku a SAV.

Uveďte informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Vedecká rada ÚMB SAV, v. v. i., na svojom zasadnutí dňa 6. 2. 2024 prerokovala a schválila hodnotenie výsledkov výskumnej činnosti ÚMB SAV, v. v. i., a konštatovala, že ÚMB SAV, v. v. i., je aj naďalej spôsobilý vykonávať výskumnú činnosť.

V roku 2023 naši vedeckí pracovníci publikovali celkovo 31 impaktovaných vedeckých publikácií, pričom drvivá väčšina z nich, až 94 %, patrí do 1. a 2. kvartilu Scimago (z toho až 87 % v 1. kvartile). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác, ktoré majú z dlhodobého hľadiska stúpajúci trend. Za rok 2022 (vykazované v roku 2023) sme celkovo získali 1 676 WoS a Scopus ohlasov na naše práce. Komplexný prehľad dosiahnutých vedeckých výsledkov uvádza kapitola 2 tejto správy.

Medzi naše najlepšie vedecké výsledky dosiahnuté v roku 2023 patrí podľa vedeckej rady v oblasti základného výskumu problematika geneticky upravených bakteriálnych spór ako potenciálnych orálnych vakcín proti SARS-CoV-2 a iným patogénom (pracovná skupina RNDr. Imricha Baráka, CSc.), úloha PDZ interakcií v regulácii GABA transportéra GAT1 a proteínu E u vírusov SARS COV, SARS-COV2 a MERS-COV (pracovná skupina RNDr. Františka Jurského, CSc.) a charakterizácia novo identifikovaného pravdepodobného iniciátora DNA replikácie z bakteriofága phiBP (pracovná skupina RNDr. Gabriely Bukovskej, CSc.). V oblasti aplikačného výskumu je to stratégia molekulárnej a enzymatickej ochrany nášho kultúrneho dedičstva (pracovná skupina Dr. Domenica Pangalla) a v oblasti medzinárodnej spolupráce výskum zameraný na detekciu dvoch funkčne odlišných luminálnych Ca^{2+}-väzbových miest u ryanodínových receptorov: objasnenie rozdielnej regulácie otvárania a zatvárania RyR1 a RyR2 kanála (pracovná skupina Ing. Evy Kutejovej, DrSc.).

Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 6.2.2024

Mgr. Ľuboš Kľučár, PhD.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2023 vypracoval(i):

RNDr. Lucia Bocánová, PhD., 02 5930 7440

Bratislava, 13.2.2024

Ing. Eva Kutejová, DrSc.
riaditeľka organizácie

Eva Kutejová

Digitálne podpísal Eva Kutejová
Dátum: 2024.02.15 13:41:23 +01'00'

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2023

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Imrich Barák, DrSc.	100	1.00
2.	prof. Ing. Štefan Janeček, DrSc.	100	1.00
3.	RNDr. Ján Kormanec, DrSc.	100	1.00
4.	Ing. Eva Kutejová, DrSc.	100	1.00
5.	Ing. Juraj Majtán, DrSc., MBA, FIFST	100	1.00
6.	Dr. Domenico Pangallo, DrSc.	100	1.00
7.	RNDr. Marcel Zámocký, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Mgr. Martina Baliová, PhD.	100	1.00
2.	Jacob Bauer, PhD.	100	1.00
3.	Mgr. Vladena Bauerová, PhD.	100	1.00
4.	Mgr. Gábor Beke, PhD.	100	1.00
5.	Mgr. Marcela Bučeková, PhD.	100	1.00
6.	RNDr. Mária Bučková, PhD.	100	1.00
7.	RNDr. Gabriela Bukovská, CSc.	100	1.00
8.	RNDr. Jarmila Farkašovská, CSc.	100	1.00
9.	RNDr. Marian Farkašovský, CSc.	100	1.00
10.	RNDr. Peter Ferianc, CSc.	100	1.00
11.	RNDr. Nora Halgašová, PhD.	100	1.00
12.	RNDr. Katarína Chovanová, PhD.	100	1.00
13.	Mgr. Zuzana Chromiková, PhD.	100	1.00
14.	Mgr. Ján Jamroškovič, PhD.	100	0.17
15.	RNDr. Jana Júdová, PhD.	100	0.17
16.	RNDr. František Jurský, CSc.	100	1.00
17.	RNDr. Mária Kajsiková, PhD.	100	1.00
18.	Mgr. Ľuboš Kľučár, PhD.	100	1.00
19.	Ing. Daniela Krajčíková, CSc.	100	1.00
20.	Mgr. Lucia Kraková, PhD.	100	1.00
21.	Mgr. Nina Kunová, PhD.	100	1.00

22.	Mgr. Naďa Labajová, PhD.	100	1.00
23.	Mgr. Vladimír Leksa, PhD.	100	1.00
24.	RNDr. Tetiana Moskalets, PhD.	100	1.00
25.	RNDr. Katarína Muchová, CSc.	100	1.00
26.	Mgr. Renáta Nováková, CSc.	100	1.00
27.	Ing. Gabriela Ondrovičová, PhD.	100	1.00
28.	RNDr. Vladimír Pevala, PhD.	100	1.00
29.	Mgr. Andrea Puškárová, PhD.	100	1.00
30.	RNDr. Ľubica Urbániková, CSc.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Lucia Bocánová, PhD.	100	1.00
2.	Mgr. Zuzana Farkas, PhD.	100	0.75
3.	Mgr. Marek Gabriško, PhD.	100	0.88
4.	RNDr. Romana Kalianková Chovanová, PhD.	100	0.00
5.	Mgr. Filip Mareček, PhD.	100	1.00
6.	MSc. Jelena Pavlović, PhD.	100	1.00
7.	Mgr. Matej Stano, PhD.	10	0.10
8.	Mgr. Barbora Stojkovičová, PhD.	100	0.00
9.	MUDr. Magda Suchánková, PhD.	15	0.75
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Veronika Bellová	100	0.00
2.	RNDr. Ľubomíra Fecková	100	1.00
3.	Ing. Jana Godočíková	100	1.00
4.	Ing. Janka Harichová	100	1.00
5.	Mgr. Henrieta Havalová	8	0.08
6.	Mgr. Diana Hubertová	100	1.00
7.	Mgr. Milan Hučko	5	0.04
8.	Dipl.-Ing. Polina Marchenko	100	0.08
9.	Mgr. Lucia Martináková	100	1.00
10.	MSc. Lucia Nemčovičová	100	0.08
11.	Mgr. Filip Opaterný	100	1.00
12.	Ing. Bronislava Řežuchová	100	1.00
13.	Mgr. Michaela Schorschová	50	0.25
14.	RNDr. Beatrica Ševčíková	100	1.00
15.	Mgr. Andrea Vetráková	8	0.77

16.	Mgr. Silvia Žarnovičanová	8	0.01
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Alžbeta Janečková	50	0.50
2.	Ing. Eva Okoličányiová	50	0.50
3.	Mgr. Pavol Pataky	100	0.96
4.	Ing. Dana Rybárová	100	1.00
5.	Mgr. Svitlana Shterenberg	100	0.25
Odborní pracovníci ÚSV			
1.	Renáta Knirschová	100	1.00
2.	Katarína Kválová	100	1.00
3.	Erika Poleková	100	1.00
4.	Katarína Semešová Pírová	100	1.00
5.	Kristína Zvarová	50	0.50
Ostatní pracovníci			
1.	Miroslav Buran	70	0.70
2.	Valéria Csonková	100	1.00
3.	Andrea Dávidová	100	1.00
4.	Martin Goliaš	130	1.30
5.	Marieta Hronská	100	1.00
6.	Dáša Jašková	100	1.00
7.	Karol Ondrovič	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Samostatní vedeckí pracovníci			
1.	RNDr. Jarmila Farkašovská, CSc.	31.12.2023	1.00
2.	RNDr. Peter Ferianc, CSc.	31.12.2023	1.00
Vedeckí pracovníci			
1.	Mgr. Matej Planý, PhD.	30.6.2023	0.25
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Romana Praženicová	28.2.2023	0.07
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Anna Varcholová	31.5.2023	0.28

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Patrik Babulic	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Dominika Csölleiová	Prírodovedecká fakulta UK	1536 biológia
3.	Mgr. Dominika Galová	Prírodovedecká fakulta UK	1536 biológia
4.	Mgr. Henrieta Havalová	Prírodovedecká fakulta UK	1420 chémia
5.	Mgr. Milan Hučko	Prírodovedecká fakulta UK	1536 biológia
6.	Mgr. Iveta Jahodová	Prírodovedecká fakulta UK	1420 chémia
7.	Mgr. Ráchel Javorová	Prírodovedecká fakulta UK	1536 biológia
8.	Mgr. Nikola Klištincová	Prírodovedecká fakulta UK	1536 biológia
9.	Mgr. Bohuš Kubala	Prírodovedecká fakulta UK	1536 biológia
10.	Dr. Francesca Maisto	Prírodovedecká fakulta UK	1536 biológia
11.	Mgr. Kristina Pápayová	Prírodovedecká fakulta UK	1536 biológia
12.	Mgr. Adam Poláček	Prírodovedecká fakulta UK	1420 chémia
13.	Mgr. Andrea Vetráková	Prírodovedecká fakulta UK	1536 biológia
14.	Mgr. Silvia Žarnovičanová	Prírodovedecká fakulta UK	1536 biológia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Ing. Evelína Kalocsaiová	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Filip Opaterný	Prírodovedecká fakulta UK	1536 biológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) European Network for Skin Engineering and Modeling *(European Network for Skin Engineering and Modeling)*

Zodpovedný riešiteľ:	Marcela Bučeková
Trvanie projektu:	15.9.2022 / 14.9.2026
Evidenčné číslo projektu:	CA21108
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Medical University Innsbruck
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
Absolvovanie zahraničného 6-mesačného študijného pobytu pracovníčky Dr. Marcely Bučekovej na oddelení dermatológii Lekárskej univerzity vo Viedni otvorilo nové možnosti výskumu medu na molekulárnej úrovni v dermatológii. Dr. Marcela Bučeková sa v roku 2023 pripojila do prebiehajúceho COST projektu CA21108 so zameraním na vývoj a validáciu nových kožných modelov pre in vitro testovanie.

2.) Štatistické techniky a techniky strojového učenia v štúdiách ľudských mikrobiómov *(Statistical and machine learning techniques in human microbiome studies)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	22.2.2019 / 21.8.2023
Evidenčné číslo projektu:	COST Action CA18131
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University College Cork
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
V júni 2023 sa Ľ. Kľučár zúčastnil záverečnej konferencie a MC stretnutia tohto projektu, na ktorom sa rekapitulovali dosiahnuté výsledky a finalizovala sa jedna zo spoločných záverečných vedeckých publikácií (2023, Front Microbiol 14: 1257002). Súčasťou podujatia bola aj jednodňová konferencia tematicky zameraná na aplikáciu pokročilých metód strojového učenia na analýzu mikrobiómu. Do budúcnosti ostala otvorená možnosť podania žiadosti o nasledovnícky COST projekt.

3.) BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY *(BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY (BeSafeBeeHoney))*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	26.9.2023 / 25.9.2027
Evidenčné číslo projektu:	CA22105
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Instituto Nacional de Investigaç?o Agrária e Veterinária (INIAV)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Európsky mobililtný COST projekt zahájil svoju realizáciu na prvom organizačnom stretnutí v Bruseli (Belgicko) v 10/2023, kde sa stretli nominovaní delegáti z participujúcich krajín. Za Slovensko bol delegátom Dr. Juraj Majtán. Na projekte participuje aj Dr. Marcela Bučeková.

Programy: Bilaterálne - iné

4.) Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémií *(Water/Wastewater epidemiology: Development of robust and reliable molecular detection systems for surveillance of disease outbreaks)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	MOST 108-2221-E-006 -160 -MY3
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Taiwan: 2
Čerpané financie:	SAS-MOST Joint Research Projects: 24996 €

Dosiahnuté výsledky:
Pokúsili sme sa zvýšiť citlivosť qRT-PCR vyvinutím jednokrokového vnoreného testu qRT-PCR s použitím jednej skúmavky (OSN-qRT-PCR). Boli vyvinuté dva varianty, ktoré boli orientované na gén nukleokapsidového fosfoproteínu (N) a na gén spike proteínu (S). Porovnala sa výkonnosť konvenčných testov PCR s reverznou transkripciou v reálnom čase (qRT-PCR) orientovaných na tieto gény s dvoma novými testami OSN-qRT-PCR. Dokončili sa analýzy vysokovýkonným sekvenovaním na báze MinION na identifikáciu mikrobioty a rezistomu vo vzorkách odpadových vôd.

Rusková, M., Bučková, M., Puškárová, A., Cíchová, M., Janská, V., Achs, A., Šubr, Z., Kuchta, T. and Pangallo, D., 2023. Comparison of ordinary reverse transcription real-time polymerase chain reaction (qRT-PCR) with a newly developed one-step single-tube nested real-time RT-PCR (OSN-qRT-PCR) for sensitive detection of SARS-CoV-2 in wastewater. Environmental Science and Pollution Research, 30(42), pp.95579-95589.

5.) Trvalo udržateľná regenerácia vody založená na filtrácii keramickými membránami *(Sustainable Water Reclamation Based on Ceramic Membrane Filtration)*

Zodpovedný riešiteľ:	Domenico Pangallo

Trvanie projektu:	1.4.2020 / 31.3.2023
Evidenčné číslo projektu:	EIG_JC2019-058
Organizácia je koordinátorom projektu:	nie
Koordinátor:	TUBITAK, Marmara Research Center (TUBITAK MRC)
Počet spoluriešiteľských inštitúcií:	6 - Japonsko: 2, Slovensko: 2, Turecko: 2
Čerpané financie:	EIG Concert Japan: 5000 €

Dosiahnuté výsledky:
Vyvinutá jednokroková jednoskúmavková vnorená real-time RT-PCR (OSN-qRT-PCR) na detekciu SARS-CoV-2 v odpadových vodách bola aplikovaná na monitorovanie prítomnosti vírusu v 4 čističkách odpadových vôd na Slovensku (Bardejov, Kysucké Nové Mesto, Komárno, Poprad).

Rusková, M., Bučková, M., Puškárová, A., Cíchová, M., Janská, V., Achs, A., Šubr, Z., Kuchta, T. and Pangallo, D., 2023. Comparison of ordinary reverse transcription real-time polymerase chain reaction (qRT-PCR) with a newly developed one-step single-tube nested real-time RT-PCR (OSN-qRT-PCR) for sensitive detection of SARS-CoV-2 in wastewater. Environmental Science and Pollution Research, 30(42), pp.95579-95589.

Programy: Iné

6.) Použitie včiel, medu a ostatných včelích produktov na biomonitorovanie nízko rádioaktívneho fosfosadrovcového odpadu *(Use of honeybees, honey and other apiary products for biomonitoring of low-level radioactive phosphogypsum stacks)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.5.2023 / 30.4.2025
Evidenčné číslo projektu:	Bridge2Era-Project Grant No. 100579052
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Institute of Chemical Technology
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Participujúci pracovníci ÚMB SAV, v. v. i.: Dr. Juraj Majtán a Dr. Marcela Bučeková mali niekoľko on-line stretnutí projektového koznorcia ohľadne plánovaných pilotných experimentov a analýze vzoriek včelích produktov.

Programy: Mobility

7.) Vysokovýkonné sekvenovanie mikrobiómu listovej zeleniny pripravenej priamo na konzumáciu: optimalizácia protokolov dlhého čítania a bioinformatických výpočtových procesov *(High-throughput sequencing of ready-to-eat (RTE) leafy vegetables microbiome: optimisation of long reads protocols and computational processes)*

Zodpovedný riešiteľ:	Andrea Puškárová
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	CNR-SAS-2022-08
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	5 - Taliansko: 5
Čerpané financie:	SAV: 3000 €

Dosiahnuté výsledky:
Huby a baktérie boli izolované z rôznych hotových šalátov určených na priamu konzumáciu, ktoré boli dopestované tradične konvenčným a tiež ekologickým poľnohospodárstvom. Získané izoláty boli identifikované pomocou PCR testov orientovaných na bakteriálny gén 16S rRNA a fungálny interný transkribovaný medzerník (ITS), následne boli amplikóny sekvenované.

Domáce projekty

Programy: VEGA

1.) Regulácia interakčnej špecificity multi-PDZ proteínov

Zodpovedný riešiteľ:	Martina Baliová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0127/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3850 €

Dosiahnuté výsledky:
PDZ interakcie sú dôležitým nástrojom regulácie bunkových signálnych dráh a zohrávajú tiež dôležitú úlohu v infekcii vírusov. V našej práci sme identifikovali PDZ interakciu C-terminálneho úseku GABA transportéra GAT1 s PDZ proteínom Syntenín 1. Interakciu sme potvrdili na úrovni rekomabinatných proteínov, ako aj v neuroblastómových bunkách N2a. Interakcia pravdepodobne zohráva úlohu v regulácii aktivity GAT1 regulovaním expresie transportéra na povrchu neurónov. Zistili sme tiež velký rozdiel v intenzite a promiskuite PDZ interakcií proteínu E vírusov SARS COV1,2 a MERS COV s multi PDZ proteínom MUPP1. Výrazne zvýšená PDZ interaktivita MERS-COV koreluje s jeho signifikantne väčšou úmrtnosťou, čo znamená že PDZ interakcie proteínu E môžu prispievať k zvýšenej dezintegrácii niektorých bunkových signálnych dráh a vyššej letalite vírusu MERS-COV.

Výstupy
1. Jahodová, I., Baliova, M., Jursky, F.:PDZ interaction of the GABA transporter GAT1 with the syntenin-1 in Neuro-2a cells. Neurochem. Int. 165 (2023) 105522.

2. Baliova, M., Jahodová, I., Jursky, F.:A Significant Difference in Core PDZ Interactivity of SARS-CoV, SARS-CoV2 and MERS-CoV Protein E Peptide PDZ Motifs In Vitro. Protein J. 42 (2023) 253-262.

2.) Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. *(How the cell finds the asymetric site of septation during sporulation of Bacillus subtilis)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0001/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13747 €

Dosiahnuté výsledky:
Publikácia:
A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, and I. Barák (2023) Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. Computational and Structural Biotechnology Journal 18, 1474-1486 (doi: 10.1016/j.csbj.2020.06.005) (IF = 7.27) (Q1 JCR2022; Q1 SJR2022)

3.) Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2 *(Study of the effect of cardiac arrhythmia-associated mutations on the structure and function of the human ryanodine receptor 2)*

Zodpovedný riešiteľ:	Vladena Bauerová
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0131/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 8826 €

Dosiahnuté výsledky:
Vo štvrtom roku riešenia projektu sme sa zamerali na štúdium dvoch mutácií N-terminálnej domény ľudského ryanodínového receptora 2 (hRyR2 NTD), konkrétne M81L a L433P, ktoré sú asociované s CPVT1 a ARVC/D2. Obidve mutácie sme rekombinantne exprimovali v bakteriálnom systéme E. coli a purifikovali. Vysokú expresiu sme získali pri fragmente hRyR2 NTD1-606M81L, ktorý sme vypurifikovali vo vysokej čistote. CD-spektroskopia vypurifikovaného fragmentu potvrdila natívne zbalenie tejto mutovanej formy. Meranie termálnej stability, ktoré sme robili metódou nanoDSF ako aj CD-spektroskopiou pri viacedrých teplotách naznačujú, že uvedená mutácia mierne zvyšuje stabilitu N-terminálnej domény hRyR2. Fragment hRyR2 NTD1-606M81L sme taktiež kryštalizovali. Fragment hRyR2 NTD1-606L433P mala oveľa nižšiu hladinu expresie v porovnaní s „wild-type“ hRyR2 NTD a hRyR2 NTD1-606M81L. Analýza fragmentu hRyR2 NTD1-606L433P molekulovou dynamikou poukázala na lokálnu zmenu štruktúry v oblasti mutácie L433P, a to rozvinutie koncovej časti centrálneho ?-helixu (zvyšky 410-436).

V rámci novovzniknutej spolupráce s Dr. Jánosom Almássym (Budapešť, Maďarsko) sme sa zamerali na mapovanie Ca2+/Eu3+-väzbového miesta na luminálnej strane RyR1 a RyR2 využitím viacerých „in silico“ bioinformatických a biofyzikálnych metód. Väzba Ca2+ a Eu3+ na luminálnu stranu RyR1 a RyR2 ako aj odlišná regulácia RyR1 a RyR2 pomocou Ca2+ a Eu3+ bola potvrdená experimentálne.

Publikácie:
Zsuzsanna É. Magyar, Jacob Bauer, Vladena Bauerová-Hlinková, István Jóna, Jana Gaburjakova, Marta Gaburjakova, János Almássy. Eu3+ detects two functionally distinct luminal Ca2+ binding sites in the cardiac- and skeletal muscle ryanodine receptor. August 2023 Biophysical Journal 122 (17). DOI: 10.1016/j.bpj.2023.07.029

Plenárne prednášky na medzinárodných podujatiach:
1.12TH INTERNATIONAL CONFERENCE STRUCTURE & STABILITY OF BIOMACROMOLECULES (SSB 2023). 5-7. 09. 2023, Košice. Prednáška s názvom: „The effect of the central-helix mutations on the stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2“ (PL13). Autori: V. BAUEROVÁ-HLINKOVÁ, T. HROMÁDKOVÁ, E. KUTEJOVÁ, J. A. BAUER. Abstrakt publikovaný v „Book of Contributions“, str. 36-37. ISBN: 978-80-89656-26-4.

2.The 8th International Scientific Conference Applied Natural Sciences 2023 (ANS 2023). 18-20. 09. 2023. Donovaly. Prednáška s názvom: Differences in stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2 induced by central helix mutations“. Autori prednášky: Vladena Bauerová-Hlinková, Eva Kutejová, Jacob A. Bauer. Abstrakt publikovaný v „Book of Abstracts“, str. 32. ISBN: 978-80-572-0357-5.

4.) Príprava mutantných lytických a replikačných proteínov bakteriofágov a ich antibakteriálny potenciál. *(Preparation of mutant lytic and replication proteins of bacteriophages and their antibacterial potential)*

Zodpovedný riešiteľ:	Gabriela Bukovská
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0079/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9211 €

Dosiahnuté výsledky:
Projekt je zameraný na štúdium bakteriofágov a ich lytických a replikačných proteínov. V rámci riešenia projektu sme pokračovali v stanovení lytickej aktivity endolyzínu EN572_5. Lytické spektrum endolyzínu vykazuje v priemere 83% lytickú aktivitu voči GBS, 74 % lytickú aktivitu voči iným Streptococcus spp. (okrem S. mutans a S. thermophilus) a 16–20 % lytickú aktivitu voči kmeňom UPEC; na testovaných prospešných kmeňoch Lactobacillus spp. však nevykazoval lytickú aktivitu. Pomocou in vitro modelu UTI (spôsobeného GBS) sme stanovili lytickú aktivitu streptokokového endolyzínu v ľudskom moči. Endolyzín EN572-5 ukázal bakteriolytický účinok proti UPSA a bakteriostatický účinok proti ABSA v ľudskom moči. Pokračovali sme v charakterizácii endolyzínu EN534-C (Patent 289101 B6). Lytickú aktivitu sme stanovili pomocou kvapkového testu na 43 bunkových substrátoch bakteriálnych kmeňov: klinické kmene GBS, Streptococcus dysgalactiae, Staphylococcus aureus, Escherichia coli a zbierkové kmene: S. agalactiae a S. aureus. Z 32 klinických humánnych kmeňov GBS (s rôznym serotypom a sekvenačným typom) sme vybrali 11 kmeňov a testovali sme ich citlivosť na 11 najčastejšie používaných antibiotík. Tri kmene GBS vykazovali multirezistenciu na antibiotiká (klindamycín, erytromycín a tetracyklín) a jeden na penicilín. Pokračovali sme v štúdiu tvorby biofilmov klinických kmeňov GBS (serotyp III, V a VII) a S. aureus. Potvrdili sme tvorbu silných biofilmov u GBS serotyp III a V a S. aureus, stredne silnú u GBS Ia, VII a len slabú schopnosť tvorby biofilmu

u S. agalactiae CCM 6187. Sledovali sme vplyv endolyzínu EN534-C na tvorbu a eradikáciu biofilmov a dokázali sme, že endolyzín EN534-C je schopný eradikácie biofilmov u S. agalactiae a S. aureus.
Pripravili sme viaceré chimerické proteíny endolyzínov kombináciou ich katalytických a väzbových domén. Z pôvodného konštruktu pET28-EN572-5 sme pripravili dva expresné plazmidy pre izoláciu nových chimerických endolyzínov: EN572-5_deltaGlu (amidáza_5 a 2 domény Cpl-7; 28,46 kDa) a EN572-5_deltaGlu_SLT05 (amidáza_5, dve domény Cpl-7 a SLT05 z gp15 BFK20; 44,54 kDa). Zistili sme, že EN572-5_deltaGlu vykazoval vyššiu lytickú aktivitu voči klinickému izolátu GBS, ale nižšiu na zbierkovom kmeni GBS ako pôvodný EN572-5. Z pôvodného endolyzínu EN534-C sme pripravili tri chimerické endolyzíny kombináciou rôznych katalytických domén (GH25, SLT, amidáza_2, amidáza_3, CHAP) a väzbovej domény LysM. Chimerické proteíny sme charakterizovali a testovali ich lytickú aktivitu. Ďalší chimerický endolyzín je proteín gp24-SLT05. Obsahuje amidázu_2 z endolyzínu gp24 bakteriofága BFK20, linker a lytickú SLT doménu z gp15 BFK20. Ďalej sme charakterizovali štruktúrno-fyziologické vlastnosti SLT proteínov SLT02 a SLT05, ktoré sa líšia 25 aminokyselinami v C-terminálnej oblasti proteínu. Analyzovali sme: termálnu stabilitu v rozličných podmienkach (pH, koncentrácia NaCl, prítomnosť kofaktorov), natívnu konformáciu a folding (natívna PAGE, CD spektroskopia), homogenitu a schopnosť proteínov viazať ióny Ca2+ a Mg2+ (gélová filtrácia). Po zistení optimálnych podmienok, sme zmerali lyzozýmovú aktivitu proteínov SLT02 a SLT05 pomocou Lysozyme Activity Assay kitu (abcam). Bolo preukázané, že prídavok Mg2+ iónov mal pozitívny vplyv na zvýšenie lyzozýmovej aktivity SLT05.
Pokračovali sme v charakterizácii génu a proteínu ROBP (iniciačný replikačný proteín - organizátor fágového replizómu) bakteriofága phiBP. Bioinformatickou analýzou génovej sekvencie sme identifikovali oblasti typické pre replikačný počiatok fágov replikujúcich sa tzv. „theta-type“ mechanizmom. Pokračovali sme v analýze rekombinantného proteínu gpRO-HC a jeho bodového mutanta gpRO-HCK8A. Testovali sme oligomérny stav oboch proteínov pomocou DLS analýzy. Pre proteín gpRO-HC sme potvrdili výsledky z gélovej filtrácie, proteín tvorí oligomérny komplex s počtom podjednotiek približne 12. Hodnoty namerané pre mutant gpRO-HCK8A tiež naznačovali tvorbu oligomérneho komplexu. Testovali sme aj väzbu mutanta gpRO-HCK8A na rôzne DNA substráty a zistili sme, že v porovnaní s gpRO-HC sa tento proteín viaže na DNA slabšie.
Pokračovali sme v charakterizácii 5 bodových mutantov proteínu gp41 - helikázy z rodiny SF2 fága BFK20 s mutáciami v krajnej C-koncovej oblasti. Doplnili sme merania ATPázovej aktivity a testovali sme väzbu jednotlivých rekombinantných proteínov na rôzne DNA substráty. Pripravili sme ďalšie dva bodové mutanty, gp41A160E a gp41F243A a testovali sme ich expresiu v E. coli BL21(DE3).
Výstupy:
1.Halgasova, N., Javorova, R., Bocanova, L., Krajcikova, D., Bauer, J., Bukovska, G. Characterization of a newly discovered putative DNA replication initiator from Paenibacillus polymyxa phage phiBP. (2023) Microbiol. Res. 274: 127 437 (1-13). [IF2022 6.700] doi: 10.1016/j.micres.2023.127437
2.Kajsikova, M., Kajsik, M., Bocanova, L., Papayova, K., Drahovska, H., Bukovska, G. Endolysin EN572-5 as an alternative to treat urinary tract infection caused by Streptococcus agalactiae. (2024) Appl. Microbiol. Biotechnol. 108(1): 1-14
3.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: Štruktúrna a funkčná charakteristika SLT domény bakteriofága. In Abstract book of Študentská vedecká konferencia PriF UK 2023, Bratislava, Slovakia, 2023, pp. 445 - 450. (ISBN 978-80-223-5608-4) poster
4.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: The SLT domain of the gp15 protein of phage BFK20 has the ability to degrade peptidoglycan. In Abstract book of 10th FEMS Congress of European Microbiologists, Hamburg, Germany, 2023, pp. 563.
5.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: Charakteristika štruktúrnych vlastností SLT domény bakteriofága BFK20. In Abstract book of Preveda 2023 Interaktívna konferencia mladých vedcov 2023, Bratislava, Slovakia, 2023. (ISBN 978-80-974608-0-8) poster

6.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: Characterization of proteins with SLT domains and their properties. Workshop: Conventional and alternative approaches combating antimicrobial resistance, Štrbské pleso, Vysoké Tatry, Slovakia, 28 Jun - 1 Jul 2023. (prednáška)

5.) Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov

Zodpovedný riešiteľ:	Monika Hofbauerová
Zodpovedný riešiteľ v organizácii SAV:	Mária Bučková
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	2/0082/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5972 €

Dosiahnuté výsledky:
V projekte sme hodnotili in vitro antibakteriálne vlastnosti (Escherichia coli, Staphylococcus aureus) fototermicky aktívnych nanočastíc, tymolu a karvakrolu a ich zmesí. Aplikovali sme tenkú vrstvu nanočastíc v kombinácii s rôznymi koncentráciami tymolu a karvakrolu na povrch smrekového a dubového dreva. Hodnotili sa antibakteriálne a ochranné vlastnosti týchto nanočastíc v kombinácií s tymolom a karvakrolom. Parameter Rr (pomer odrazivosti) bol určený na identifikáciu farebných zmien substrátov. Digitálna mikroskopia bola použitá na meranie oblasti kolonizácie bakterií a tiež ich prieniku do analyzovaných materiálov.

Hofbauerová, M., Rusková, M., Puškárová, A., Bučková, M., Annušová, A., Majková, E., Šiffalovič, P., Granata, G., Napoli, E., Geraci, C. and Pangallo, D., 2023. Protection and Disinfection Activities of Oregano and Thyme Essential Oils Encapsulated in Poly (?-caprolactone) Nanocapsules. Molecules, 28(3), p.1018.

6.) Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...? *(Amylolytic enzymes – thousands of sequences, hundreds of structures, dozens of specificities – and what about evolution...?)*

Zodpovedný riešiteľ:	Štefan Janeček
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0146/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 12077 €

Dosiahnuté výsledky:
(1)
Na základe in silico analýzy enzýmov z alfa-amylázovej rodiny GH119 bola detailne popísaná jej príbuznosť s rodinou GH57.

Polacek A. & Janecek S.: Sequence-structural features and evolution of the alpha-amylase family GH119 revealed by the in silico analysis of its relatedness to the family GH57. Biologia 2023, 78: 1847-1860. https://doi.org/10.1007/s11756-023-01349-y

(2)
V rámci dlhoročnej medzinárodnej spolupráce s prof. Birte Svenssonovou (Danish Technical University, Kgs. Lyngby, Denmark) bola publikovaná štúdia o úlohe škrob-viažucej domény z rodiny CBM20 v 4-alfa-glukanotransferázach z rodiny GH77.

Wang Y., Wu Y., Christensen S.J., Janecek S., Bai Y., Moeller M.S. & Svensson B.: Impact of starch binding domain fusion on activities and starch product structure of 4-alpha-glucanotransferase. Molecules 2023, 28: 1320. https://doi.org/10.3390/molecules28031320

7.) Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmiterov.

Zodpovedný riešiteľ:	František Jurský
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0126/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3682 €

Dosiahnuté výsledky:
Transportéry neurotramsmiterov obsahujú relatívne krátke, sekvenčne nehomologické N-terminálne úseky. Naša bioinformatická analýza, CD spektrá a rezistencia k tepelnej denaturácii indikujú ich neštruktúrovaný charakter. Táto vlastnosť sa odzrkadľuje aj transformácii klasickej 465-595 nm metachromázie na metachromáziu do blízskej infračervenej oblasti počas ich interakcie s Bradfordovým činidlom. V súčasnosti nieje známe či sa zo sekvenčne nehomologických N-terminálnych úsekov dá extrahovať informácia o spôsobe ich odpovede na špecifické versus spoločné signálne stimuly. Pomocou kombinácie prekrytia hydrofobnych profilov s pozíciami kalpainových štiepnych miest a spekrálnej analýzy sa nám podarilo definovať mikroštrukturálnu podobnosť N-terminálnych úsekov niektorých transportérov napriek minimálnej aminokyselinovej podobnosti.

8.) Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces *(Signal cascades of regulation of sigma factors of RNA polymerase in response to stress, cell and physiological differentiation in soil bacteria of the genus Streptomyces)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0026/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: VEGA SAV: 15885 €

Dosiahnuté výsledky:

V svojom prirodzenom prostredí sú baktérie vystavené rôznym stresom, pričom odozva na tieto stresy je regulovaná najmä sigma faktormi RNA polymerázy, ktoré riadia expresiu génov potrebných na prekonanie týchto nepriaznivých podmienok. V bakteriálnom modeli jednobunkoveh Gram-pozitívnej baktérie Bacilus subtilis je to stresový sigma faktor SigB, ktorý je regulovaný fosforylačným mechanizmom prostredníctvom anti-sigma faktora RsbW, anti-anti-sigma faktora RsbV, a dvoch PP2C fosfatáz, RsbP a RsbU. SigB je v nepritomnost stresu blokovaný s komplexe s RsbW. Po strese je táto väzba uvoľnená defosforylonaným anti-anti-sigma faktorom RsbV, prostredníctvom fosfatáz RsbP/RsbU, ktoré defosforulujú RsbV-P. Po odozneni stresu, je RsbV opäť fosforylovaný kinázovou HATPase_c doménou RsbW a dochádza opäž k interakcii a inhibícii SigB s RsbW.

Gram-pozitívne myceliálne pôdne baktérie rodu Streptomyces podliehajú výnimočnému procesu morfologickej diferenciácie sprevádzanej produkciou mnohých antibiotík. Na rozdiel od B. subtilis, modelový organizmus, Streptomyces coelicolor obsahuje až 9 homológov tohto stresového sigma faktora SigB z B.subtilis, 45 homológov anti-sigma faktora RsbW, 17 homológov anti-anti-sigma faktora RsbV a 44 homológov aktivačných PP2C fosfatáz RsbU/RsbP. Tieto homológy (SigB, SigF, SigG, SigH, SigI, SigK, SigL, SigM, SigN) hrajú dominantnú úlohu najmä v kontrole morfologickej diferenciácie a v odozve na osmotický stres.

V predchádzajúcej správe sme charakterizovali sigma faktor SigH, ktorý má dvojitú úlohu pri regulácii reakcie na osmotický stres a morfologickej diferenciácii. Jeho aktivita je negatívne regulovaná jeho špecifickým anti-sigma faktorom UshX a anti-anti-sigma faktor BldG sa podieľa na aktivácii SigH pri osmotickom strese. UshX však nemá doménu HATPase_c a nie je schopný fosforylovať BldG. Táto negatívna spätná fosforylácia sa uskutočňuje SigF-špecifickým anti-sigma faktorom RsfA. Regulácia je zložitejšia, pretože 13 ďalších RsbW homológnych anti-sigma faktorov interaguje s BldG a sedem z nich špecificky fosforyluje BldG. Ukázalo sa, že jeden z nich, SCO7328, interaguje s tromi sigma faktormi, SigG, SigK a SigM. Tieto údaje naznačujú, že BldG aktivuje niekoľko homológov SigB v S. coelicolor.

Kritický signál pre aktiváciu homológov SigB je transdukovaný aktiváciou špecifickej, v súčasnosti neznámej PP2C fosfatázy. V B. subtilis hrajú RsbU a RsbP kľúčovú úlohu pri aktivácii SigB. Avšak S. coelicolor A3(2) obsahuje najmenej 44 homológov RsbU/RsbP a mnohé z nich obsahujú veľké množstvo iných domén zapojených do signálnych transdukčných dráh (PAS, PAC, GAF) a transmembránových domén. To naznačuje komplexnú súhru rôznych signálov pri aktivácii špecifických anti-anti-sigma faktorov. Žiadny z týchto homológov RsbU/RsbP však nebol študovaný v S. coelicolor A3(2). Za účelom charakterizácie týchto homológov RsbU/RsbP v aktivácii kľúčového anti-anti-sigma faktora BldG sme sa pokúsili pripraviť a optimalizovať systém pre charakterizáciu špecifickej defosforylácie BldG-P. Pre otestovanie takéhoto systému sme použili známu kaskádu aktivácie SigB u B. subtilis. Jednotlivé regulačné proteíny (RsbV, RsbW, RsbU, RsbP) sme nadprodukovali a izolovali. Optimalizovali sme systém detekcie fosforylovaného a defosforylovaného RsbV pomocou natívnej PAGE a dokázali sme špecifickú fosforyláciu RsbV kinázou RsbW a nasledne defosforyláciu RsbV-P pomocou oboch fosfatáz RsbP a RsbU. Tento optimalizovaný systém sme aplikovali pre identifikáciu a charakterizáciu špecifických PP2C fosfatáz defosforylujúcich fosforylovaný kľúčový anti-anti-sigma faktor BldG. Bioinformatickou analýzou 44 homológov RsbU/RsbP sme vybrali 5 zástupcov (SCO0451, SCO3691, SCO3723, SCO4695, SCO7320), ktoré obsahovali jedinú PP2C doménu a neobsahovali membránové domény a iné regulačné domény. Uvedené proteíny sme nadprodukovali a po ich izolácii testovali na špecificitu defosforylácie BldG-P. Iba jediná fosfatáza SCO3691 špecifický defosforylovala BldG-P. Rozrušili sme gén SCO3691 v chromozóme S. coelicolor M145, avšak delécia tohto génu nemala žiaden fenotyp v diferenciáciia a pri stresových podmienkach. Imunoblotovou analýzou pomocou protilátok voči BldG, sme in vivo v priebehu diferenciácie charakterizovali fosforyláciu BldG v divom type S. coelicolor M145 a v mutantoch pre anti-sigma faktory rsfA a SCO7328 a v

mutante pre identifikovanú špecifickú PP2C fosfatázu SCO3691. Na natívnej PAGE sme v divom type detegovali obidve formy, defosforylovanú BldG, ako aj fosforylovanú BldG-P, pričom hladina BldG-P narastala v priebehu diferenciácie. V mutante rsfA chýbala fosforylovaná forma BldG-P, čo potvrdilo špecificitu kinázy RsfA pre BldG aj in vivo. Avšak v oboch mutantoch pre SCO7328 a SCO3691, nedochádzalo k zmene oboch foriem v porovnaní s divým typom, čo naznačuje existenciu ďalších špecifických PP2C fosfatáz pre BldG.
Použitím E. coli dvojplazmidového systému sme v predchádzajúcej čast riešenia projektu identifikovali promótory rozpoznávané homológmi SigB. Takmer všetky promótory boli rozpoznané viacerými homológmi SigB. Neboli však nájdené žiadne špecifické sekvencie týchto promótorov. Na preskúmanie tohto krížového rozpoznávania in vivo sme vybrali jeden z týchto promótorov, ktorý riadi expresiu génu ssgB špecifického pre sporuláciu. Pomocou luciferázového reportéra sme detegovali aktivitu promótora ssgBp v priebehu diferenciácie na tuhom médiu v divom type a v mutantoch pre všetkých deväť homológov sigB. Analýza ukázala, že ssgBp je závislý od troch sigma faktorov, SigH, SigN a SigI. Aby sme identifikovali nukleotidy v oblasti ? 10, ktoré sú zodpovedné za výber špecifického homológa SigB, testovali sme mutantné promótory so zmenenými poslednými tromi nukleotidmi v tejto oblasti v dvojplazmidovom systéme. Niektoré mutantné promótory boli špecificky rozpoznané odlišnou sadou homológov SigB. Analýza týchto mutantných promótorov in vivo ukázala úlohu týchto nukleotidov. Konzervovaný nukleotid A v polohe 5 bol nevyhnutný pre aktivitu promótora a dva variabilné nukleotidy v polohách 4 a 6 boli zodpovedné za čiastočnú selektivitu rozpoznávania promótora homológmi SigB.

Publikácie

1, Hamed M.B, Busche T, Simoens K, Carpentier S, Kormanec J, Van Mellaert L, Anné J, Kalinowski J, Bernaerts K, Karamanou S, Economou A: Enhanced protein secretion in reduced genome strains of Streptomyces lividans. Microbial Cell Factories (2023) in press.

2, Sevcikova B, Rezuchova B, Novakova R, Opaterny F, Javorova R, Csolleiova D, Feckova L, Kormanec J: Cross-recognition of the ssgBp promoter, which controls the expression of the sporulation–specific cell division gene ssgB, by nine SigB homologues in Streptomyces coelicolor A3(2). Preprints (2023) 2023090591; https://doi.org/10.20944/preprints202309.0591.v1
3, Rebets Y, Kormanec J, Lutzhetskyy A, Bernaerts K, Anné J: Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Its Subsequent Fermentation for Optimized Production. In: Streit WR, Daniel R. (eds.) Metagenomics. Methods in Molecular Biology, vol. 2555, Humana New York, NY, 2023, pp. 213-260. doi: 10.1007/978-1-0716-2795-2_16, ISBN: 978-1-0716-2794-5.

Účasť na domácich konferenciách

1, Kormanec J, Opaterny F, Feckova L, Javorova R, Rezuchova B, Csolleiova D, Novakova R: Differential in vivo recognition of promoters recognized by nine SigB homologues present in Streptomyces coelicolor A3(2). Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 160. ISBN 978-80-8240-047-5.

2, Sevcikova B, Rezuchova B, Novakova R, Feckova L, Kormanec J.: The pleiotropic anti-anti-sigma factor BldG is specifically dephosphorylated by the phosphatase SCO3691 to activate SigH and SigF pathway in Streptomyces coelicolor A3(2). Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology

with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 188. ISBN 978-80-8240-047-

9.) Úloha mitochondriálnej proteázy Lon a fosforylácie proteínov mitochondriálneho nukleoidu v homeostáze a udržiavaní mtDNA 2/0069/23

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	2/0069/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10907 €

Dosiahnuté výsledky:
V rámci projektu sme venovali pozornosť charakterizácii úlohy LON proteázy pri stabilite a funkcii dýchacieho reťazca v kvasinke S. cerevisiae, konkrétne analýzy expresie významných mt proteínov zahrnutých v udržiavaní stability mtDNA a to stanovením množstva RNA pomocou qRT-PCR v štandardnom kmeni S. cerevisiae a kmeni s disrupciou LON proteázy.
Študovali sme tiež vplyv väzby polyfosfátov na aktivitu hLON. Ukázali sme, že táto väzba vedie k výraznému zníženiu aktivít hLON (proteázovej, peptidázovej a ATPázovej) a destabilizácii samotnej hexamérnej štruktúry hLON.

10.) Štúdium a charakterizácia Min proteínov z Clostridioides difficile. *(Study and characterization of Clostridioides difficile Min proteins.)*

Zodpovedný riešiteľ:	Naďa Labajová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0033/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7499 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme pokračovali v lepšej charakterizácii interakcie DivIVA proteínu s membránou. Proteín DivIVA sa zúčastňuje bunkového delenia a je zodpovedný za špecifickú lokalizáciu Min komplexu, ktorý je negatívnym regulátorom delenia. Pomocou AFM, TEM a Cryo-EM, v spolupráci s laboratóriami Nanobiotechnológií a Kryo-elektronovej mikroskopie a tomografie CEITEC, Brno, ČR sme získali cenné informácie o štruktúrach, ktoré DivIVA vytvára na membráne. Predpokladáme, že získané výsledky v tomto roku opublikujeme. Začali sme tiež s identifikáciou nových proteínových partnerov DivIVA. Predbežné výsledky naznačujú, že je protein DivIVA v kontakte s kardiolipín-syntázou, enzýmom zapojeným do syntézy negatívneho fosfolipidu kardiolipínu.

11.) Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie *(Lactoferrin and lactoferricin as natural plasmin inhibitors: From the structure resolution to therapeutic applications)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0152/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8337 €

Dosiahnuté výsledky:
Opublikovali sme veľký prehľadový článok "Time to Kill and Time to Heal: The Multifaceted Role of Lactoferrin and Lactoferricin in Host Defense" v časopise PHARMACEUTICS (15,4, DOI10.3390/pharmaceutics15041056). Vedúci výskumu Vladimír Leksa bol pozvaný prezentovať naše výsledky na 13TH C1-INHIBITOR DEFICIENCY AND ANGIOEDEMA WORKSHOP (4-7-máj, 2023). V súčasnosti pracujeme na dokončení dvoch manuskriptov týkajúcich sa dvoch hlavných cieľov projektu - štúdia funkcií laktoferínu a diagnostiky pľúcnej fibrózy.

12.) Vývoj nových metodických prístupov na hodnotenie kvality medu *(The development of new methods for assessing honey quality)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0022/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10675 €

Dosiahnuté výsledky:
Publikácie:
BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - KOHÚTOVÁ, Lenka - DANCHENKO, Maksym - BARÁTH, Peter - MAJTÁN, Juraj**. Antibacterial activity and bee-derived protein content of honey as important and suitable complementary tools for the assessment of honey quality. In Journal of Food Composition and Analysis, 2023, vol. 123, art. no. 105610. (2022: 4.3 - IF, Q2 - JCR, 0.651 - SJR, Q1 - SJR). ISSN 0889-1575.

BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - GUEYTE, Romain - CHAMBREY, Céline - MAJTÁN, Juraj**. Characterisation of physicochemical parameters and antibacterial properties of New Caledonian honeys. In PLoS ONE, 2023, vol. 18, iss. 10, art. no. e0293730. (2022: 3.7 - IF, Q2 - JCR, 0.885 - SJR, Q1 - SJR). ISSN 1932-6203.

13.) Bio-čistenie farebných škvŕn na historických dokumentoch: mikrobiálne, enzymatické a chemické prístupy *(Bio-cleaning of colored stains on historical documents: microbial, enzymatic, and chemical approaches)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0099/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10922 €

Dosiahnuté výsledky:
Pokúsili sa odstrániť niekoľko typov plesňových škvŕn pomocou rôznych enzymatických stratégií z modelových papierov. Bohužiaľ, doteraz sme nenašli úspešnú stratégiu odstraňovania tohto druhu škvŕn. Máme však ešte rok na to, aby sme vyskúšali iné postupy.

Sanmartín, P., Bosch-Roig, P., Pangallo, D., Kraková, L. and Serrano, M., 2023. Unraveling disparate roles of organisms, from plants to bacteria, and viruses on built cultural heritage. Applied Microbiology and Biotechnology, 107(7-8), pp.2027-2037.

14.) Dešifrovanie ancestrálnych sekvencií hémových kataláz pre rekonštrukciu ich evolúcie najmä v patogénoch a výber jedinečných kandidátov pre syntetickú biológiu. *(Deciphering ancestral sequences of heme catalases for inferring their evolution mainly in emerging pathogens and selecting unique candidates for synthetic biology.)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	VEGA-2-0012-22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13373 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme sa zamerali na podrobný fylogenomický výskum hémových kataláz. Z predošlých publikácií bolo známe, že túto génovú rodinu je možné rozdeliť do 3 hlavných evolučných vetiev. Najmä vo vetve prokaryotických kataláz vedúcich k ancestrálnym sekvenciám však bolo potrebné vykonať podrobnejšie analýzy a zahrnúť novo osekvenované gény ktoré poukazujú na pôvod tejto rodiny antioxidačných enzýmov. Celkový počet úplných proteínových sekvencií sme navýšili až na 279 pričom sú v ňom zahrnuté aj unikátne génové fúzie kataláz s lipoxygenázami. Optimalizovali sme parametre pre evolučnú rekonštrukciu metódou maximum likelihood za použitie matrice Le-Gascuel.
V publikácii, ktorá vyšla v časopise Antioxidants (2023) 12:1382 sme porovnávali enzýmovú reaktivitu a proteínovú stabilitu bifunkčných kataláz-peroxidáz izolovaných z termofilnej a mezofilnej askomycéty. Pritom sme objavili pomocou hmotnostnej spektroskopie prítomnosť post-translačnej modifikácie v aktívnom centre študovaných enzýmov a pripravili aj 2 bodové mutácie v ktorých táto modifikácia nebola prítomná. Termofilná varianta našla konkrétnu aplikáciu v odstraňovaní farebných pečiatok na starých listinách, čo bolo publikované v článku, ktorý vyšiel v časopise Int. J. Biol. Macromol. (2023) 242:124599.

Programy: APVV

15.) Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine *(Tree and country - influence of trees on diversity of soil microorganisms in agricultural land)*

Zodpovedný riešiteľ:	Slavomír Adamčík
Zodpovedný riešiteľ v organizácii SAV:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0257
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Botanický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6199 €

Dosiahnuté výsledky:
Pre štúdium špecifickej biodiverzity poľnohospodárskej krajiny bola zvolené mangánová peroxidáza ako typický marker oxidoreduktáz v mikrobióme. Kvantifikovali sme natívnu expresiu mangánových peroxidáz v početných pôdnych vzorkách získaných v rôznej vzdialenosti of rastúcich solitérnych dubov ako bola požiadavka projektu. Táto enzýmová aktivita ktorá sa meria spektrofotometricky vypovedá o prítomnosti najmä vláknitých húb a čiastočne aj niektorých baktérií. Tieto aktivity je možné odlíšiť od seba inými metódami ale fungálne peroxidázy sú jednoznačne extracelulárne enzýmy takže ich aktivitu je možné stanoviť priamo v pôdnych vzorkách bez potreby homogenizácie buniek. Takto sme to aj realizovali a kvantifikovali.

16.) Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry *(Asymmetric cell division during bacterial endospore formation)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 23810 €

Dosiahnuté výsledky:
Za posledný polrok riešenia projektu sa dokončili posledné naplánované experimenty a hlavne sa postúpilo v nových experimentoch, ktoré vyplynuli z predchádzajúcich výsledkov a ktoré neboli pôvodne plánované. Prvým cieľom projektu bolo študovať úlohu špecifických proteínov Bacilus subtilis počas sporulácie na určenie presnej lokalizácie asymetrického septa. Na základe jednotlivý cieľov sme v roku 2023 uskutočnili posledné plánované experimenty.

Publikácia:
A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, and I. Barák (2023) Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. Computational and Structural Biotechnology Journal 18, 1474-1486 (doi: 10.1016/j.csbj.2020.06.005) (IF = 7.27)

(Q1 JCR2022; Q1 SJR2022)

17.) Molekulárny mechanizmus meracieho zariadenia na nájdenie správneho miesta bakteriálneho asymetrického bunkového delenia *(Molecular mechanism of measuring device for finding the proper site of bacterial asymmetric cell division)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.7.2023 / 30.6.2027
Evidenčné číslo projektu:	APVV-22-0303
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 21800 €

Dosiahnuté výsledky:
V rámci tohto nového projekty, riešeného od polovice roka, sa pripravili nové plazmidy s fúznymi génmi a geneticky modifikované kmene Bacillus subtilis.

18.) Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním *(Colored stains on historical papers: biological and chemical characterization coupled with removal solutions)*

Zodpovedný riešiteľ:	Mária Bučková
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0059
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 12500 €

Dosiahnuté výsledky:
Výsledky UV-VIS meraní a HPLC analýz pigmentov fungálnych a bakteriálnych kmeňov potvrdili trendy z predchádzajúceho obdobia v zmysle prítomnosti určitých typov monomérnych a polymérnych zlúčenín v rámci širokej skupiny polyfenolických zlúčenín. Použité nešpecifické chemické metódy umožnili kvantifikovať určité skupiny týchto farebných zlúčenín, najmä chlorofyly, karotenoidy a antokyány, ako aj flavonoidy a bezfarebné katechíny, ktoré okrem iných zlúčenín tvorili profil metabolitov v extraktoch skúmaných kmeňov. Tento profil sa pravdepodobne môže meniť v súvislosti s rôznorodosťou podmienok pri odbere kmeňov (lokalita, klimatické podmienky a pod.), ktoré môžu ovplyvniť kondíciu kmeňa a schopnosť produkcie určitých typov metabolitov. Uvedené sme zistili porovnaním profilácie tých istých kmeňov odobraných v roku 2022.

Farkas, Z., Puškárová, A., Šišková, A.O., Poljovka, A., Zámocký, M., Vadkerti, E., Urík, M., Farkas, B., Bučková, M., Kraková, L. and Pangallo, D., 2023. Evaluation of enzymatic stamp removal strategies on handmade (cellulose-based) and machine-made (lignin-containing) papers. International Journal of Biological Macromolecules, 242, p.124599.

Pavlović, J., Puškárová, A., Planý, M., Farkas, Z., Rusková, M., Kvalová, K., Kraková, L.,

Bučková, M. and Pangallo, D., 2023. Colored stains: Microbial survey of cellulose-based and lignin rich papers. International Journal of Biological Macromolecules, 241, p.124456.

19.) Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov *(Harnessing the immunological mechanisms in various subtypes of B cell lymphoma)*

Zodpovedný riešiteľ:	Dana Cholujová
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0212
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7431 €

Dosiahnuté výsledky:
Dáta hmotnostnej cytometrie sme analyzovali pomocou programovacieho jazyka R a doplnkovej knižnice SPADE. Na základe SPADE výsledkov sme identifikovali rôzne vývojové štádia B-bunkového vývojového radu. Rozdiely medzi jednotlivými vývojovými štádiami sme zobrazili na SANKEY diagramoch pomocou R knižníc ggsankey a ggalluvial. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ISMB/ECCB 2023 v Lyone.

20.) Nádorové imunoeditovanie v mnohopočetnom myelóme: imunitné kontrolné body a klinický význam *(Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance)*

Zodpovedný riešiteľ:	Jana Jakubíková
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0183
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6556 €

Dosiahnuté výsledky:
Dáta hmotnostnej cytometrie od pacientov s mnohopočetným myelómom sme analyzovali SPADE algoritmom v programovacom jazyku R. Na základe klinických dát sme rozdelili pacientov do skupín. SPADE výsledky z rôznych pacientských skupín sme následne porovnali štatistickým testom (Mann-Whitney-U test). Výsledky štatistického porovnania sme zobrazili na volcano plot-och pomocou R knižnice ggplot2. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ISMB/ECCB 2023 v Lyone.

21.) Identification of new treatment options in refractory testicular germ cell tumors *(Identification of new treatment options in refractory testicular germ cell tumors)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0158
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 4618 €

Dosiahnuté výsledky:
Pracovali sme na analýze RNA-seq dát získaných zo vzoriek pacientov s nádormi semenníkov. Podstatou analýzy bolo odlíšiť pacientov rezistentných voči podávaným chemoterapeutikám (najmä cisplatine) od zdravých jedincov na základe zmien v génovej expresii 2 549 analyzovaných génov spájaných s nádorovými ochoreniami. Analýza pozostávala z využitia štatistických nástrojov ako DESeq a prístupu strojového učenia v programovacích jazykoch R a Python. Identifikovali sme desiatky génov so signifikantne zmenenou expresiou, teda génov potenciálne ovplyvňujúcich senzitivitu na cisplatinu. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ISMB/ECCB 2023 v Lyone.

22.) 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
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0009
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 37610 €

Dosiahnuté výsledky:
V predchádzajúcej etape projektu sme pripravili viaceré konštrukty pre integráciou silného promótora kasOp* spolu s reverzne orientovaným génom rezistenie na apramycin a silným obojstranný terminatorom T5 pred viaceré biosyntetické alebo regulačné gény viacerých silentných biosyntetických génových klastrov (BGC) v genóme nášho modelového kmeňa S. lavendulae subsp. lavendulae CCM 3239. Homologickou rekombináciou sme úspešne integrovali túto kazetu do divého kmeňa S. lavendulae subsp. lavendulae CCM 3239, ako aj do mutanta S. lavendulae ?aur1 s deletovaným BGC pre auricín a vo viacerých prípadoch sme dostali integranty so správne integrovanou kazetou pred viaceré gény v silentných BGC, čo sme verifikovali Southern blot hybridizáciou a genomickým sekvenovaním. Bioinformatická analýza genómu S. lavendulae subsp. lavendulae CCM 3239 odhalila 30 silentných BGC, ktoré kódujú viaceré predpokladané biosyntetické gény pre predpokladané biologicky aktívne produkty viacerých tried. Sedem z týchto BGC kódujú gény pre potenciálne polyketidy, z nich jeden (BGC2) predstavuje predpokladaný BGC pre polyketid syntetázu (PKS) typu I. PKS typu I sú veľké modulárne multifunkčné proteíny, ktoré syntetizujú polyketidový reťazec neopakujúcim spôsobom v jednom kondenzačnom cykle pre každú doménu. Každý modul obsahuje súbor odlišných acyltransferázových, ketosyntázových a acylových nosičových proteínových katalytických domén, ktoré spolupracujú pri vytváraní ?-ketoesterového medziproduktu. Iné moduly ako ketoreduktáza, dehydratáza a enoylreduktáza sú

zodpovedné za modifikáciu ketoskupiny. V procese tvorby polyketidu sa rastúci polyketidový reťazec prenáša z jedného modulu do druhého, kým sa celá molekula neuvoľní z posledného modulu tioesterázou. PKS typu I sú zodpovedné za produkciu redukovaných polyketidov, ako sú makrolidy, polyétery a polyény. Podarilo sa nám úspešne integrovať promótor kasOp* pred gén SLAV_02840 kódujúci transkripčný aktivátor rodiny LAL a gén SLAV_02776 kódujúci biosyntetický enzým PSK typu I v tomto klastri. Fenotypová analýza (TLC s následnou biochromatografiou a HPLC) mutantných kmeňov S. lavendulae, kasOp::2840 v porovnaní s divým kmeňom odhalila dramatickú nadprodukciu žltej zlúčeniny neaktívnej voči baktériam, ale inhibujúcej rast kvasiniek. HPLC analýza a HR MS hmotnostná analýza dokázala, že sa jedná o polyén Strevertén A. Zaujímavé však bolo, že mutantné kmene S. lavendulae, kasOp::2776 nadprodukovali podobnú žltú zlúčeninu inhibujúcu rast kvasiniek, ktorá sa líšila od Streverténu A. Štruktúrna analýza dokázala, že sa jedná o modifikovaný a dekarboxylovaný nový streverten, ktorý mal vyššiu biologickú aktivitu.
Osem z týchto bioinformaticky charakterizovaných BGC kóduje potenciálne neribozomálne-syntetizované peptidové syntetázy (NRPS). Na overenie stratégie aktivácie sme vybrali BGC11 pre predpokladanú NRPS, ktorá obsahuje štyri biosyntetické gény kódujúce dimodulárne NRPS umiestnené v operóne. Podarilo sa nám úspešne integrovať promótor kasOp* pred gén SLAV_09235 kódujúci prvú NRPS v operóne. Podobná fenotypová analýza mutantného kmeňa S. lavendulae, kasOp::9235 v porovnaní s WT odhalila dramatickú nadprodukciu antibakteriálnej zlúčeniny inhibujúcej rast gram-pozitívnej baktérie Bacillus subtilis. Tieto výsledky potvrdili účinnú aktiváciu silentného BGC2 pre PKS typu I ako aj BGC11 pre NRPS pomocou tohto optimalizovaného systému.
Pomocou metódy REDIRECT sme deletovali viaceré potenciálne biosyntetické gény auricínového klastra v genóme S. lavendulae subsp. lavendulae CCM 3239. Všetky pripravené mutanty sme verifikovali Southern blot hybridizáciou. Pomocou TLC, biochromatografiou a HPLC sme postupne analyzovali produkciu sekundárnych metabolitov u pripravených mutantov. U niektorých mutantov nebola postihnutá biosyntéza auricínu, takže uvedené gény nie sú esenciálne pre biosyntézu auricínu. U ďalších došlo k výraznému poklesu produkcie auricínu, takže tieto gény sú dôležité pri biosyntéze auricínu, ale daný krok je sprostredkovaný aj ďalším homologickým génom. V prípade mutantov v gene sa48, sa10, sa11, sa12, a sa13 nedochádzalo k produkcii auricínu, ale iného sekundárneho metabolitu, pravdepodobne medziproduktu auricínu.
V predchádzajúcej etape sme charakterizovali medziprodukt auricínu SA48A vytvorený po delecii génu sa48, kódujúcom homológ polyketid cyklázy/dehydratázy. Tento bol však nestabilný a podliehal spontannej laktonizácii na stabilný product SA48B. Po štruktúrnej analýze SA48B sme zistili sme, že sa jedná o aglykón auricínu (so stratou cukornej zložky D-forozamín), ktorý bol oveľa stabilnejší ako aj aktívnejší voči Gram-pozitívnym baktériám ako aj proti štyrom vybraným nádorovým bunkovým líniam (Human ovarian carcinoma cell lines A2780, cisplatin resistant cells A2780/CP a breast cancer cell lines MDA-MB-231 and MCF-7) ako auricín. V súčasnej etape sme ďalej charakteizovali tento sĺubný biologicky aktívny produkt. Naši partneri na UEO SAV zhodnotili protinádorový účinok SA48B na mnohopočetný myelóm (MM) analýzou cytotoxickej aktivity na 13 bunkových línií MM (MM.1S, OPM-1, OPM-2, RPMI-S, RPMI-LR5, RPMI-DOX40, RPMI -MR20, KMS-11, OCI-My5, OCI-My7, JJN-3, U266 a L-363 bunky), ako aj na bunkovej línii ľudskej myeloidnej leukémie K-562 a línii ľudských stromálnych buniek HS-5. Celkovo SA48B vykazoval protinádorový cytotoxický potenciál s výraznou anti-MM aktivitou. Na vyhodnotenie, či znížené prežívanie MM bunkových línií po ovplyvnení SA48B súvisí s indukciou apoptózy, boli MM bunky vystavené rôznym koncentráciam SA48B počas 24, 48 a 72 hodín. Transmembránová externalizácia fosfatidylserínu, ktorú sme detegovali prietokovou cytometriou pomocou farbenia annexínom V, predstavuje jeden z prvých znakov apoptózy. Okrem toho sme na rozlíšenie medzi včasnou apoptózou (Annexin V+ a PI-), neskorou apoptózou (Annexin V+ a PI+/-) a nekrózou (Annexin V+ a PI+) použili farbenie spolu s jadrovým interkalátorom propidium jodid (PI), ktorý vstupuje len do buniek s poškodenou plazmatickou membránou. Stredná indukcia apoptózy bola pozorovaná pri ovplyvnení SA48B v koncentrácii 100 ng/ml, čo sa prejavilo

nárastom včasnej apoptotickej populácie buniek a následne zvýšeným percentom neskorej apoptotickej a nekrotickej populácie pri koncentrácii 300 a 600 ng/ml u väčšiny MM bunkových línií. Na stanovenie inhibície bunkovej proliferácie sme vyhodnotili distribúciu buniek v rôznych fázach bunkového cyklu analýzou prietokovou cytometriou v MM bunkách po ovplyvnení rôznymi koncentráciami SA48B počas 24, 48 a 72 hodín. Analýza bunkového cyklu ukázala akumuláciu buniek v G2/M fáze pri vyšších koncentráciách SA48B (300 a 600 ng/ml) v bunkách po 24 hod ovplyvnení, sprevádzanú poklesom v G0/G1 alebo S fáze. Podobne sme po aplikácii SA48B zaznamenali aj mierny nárast buniek v G2/M fáze bunkového cyklu. Po dlhšom 72 hod pôsobení SA48B došlo k upregulácii v G2/M fáze bunkového cyklu. Tieto výsledky naznačujú, že anti-MM účinky SA48B boli sprevádzané blokom v G2/M fáze bunkového cyklu.
Pripravili sme integračný vektor na báze fága PhiC31, v ktorom sme dali pod kontrolu promótora kasOp* operon aur1PO kódujúci auricín-špecifický aktivátor Aur1P a jeho koaktivátor Aur1O (pPhiC31-aur1PO) a integrovali sme ho do divého typu S. lavendulae subsp. lavendulae CCM 3239. HPLC a TLC analýza ukázala predpokladaný 1,5-násobný nárast auricínu. Avšak prekvapujúco v rekombinantnom kmeni došlo aj k 11-násobnému nárastu produkcie žltej látky s aktivitou oproti kvasinkám, ktorú sme na základe spektra, Rt hodnoty a hmoty definovali ako Streverténe A. Z výsledkov vyplýva, že dochádza ku prepojeniu regulácie Streverténu A regulátormi z auricínového klastra Aur1PO.
V predchádzajúcej časti projektu sme pripravili a optimalizovali sme nový systém syntetickej biológie založený na monocistronických jednotkách (kasOp*-RBS-gén-terminátor), umožňujúcom ich postupné pripájanie do dlhých monocistronických syntetických génových klastrov. Tento systém sme verifikovali postupným klonovaním a pripájaním biosyntetických génov pre aromatické polyketidové antibiotikum landomycín (lanA, lanB, lanC, lanF, lanD, lanL, lane, lanM, lanN), kde po integrácii výsledných konštruktov do chromozómu heterologického hostiteľského kmeňa S. coelicolor M1146 dochádzalo k produkcii jednotlivých medziproduktov landomycínového aglykónu, a to rabelomycínu, dehydrorabelomycínu a tetrangulolu. V ďalšej časti sme tento systém obdobne použili na postupné pripájanie časti operónu biosyntetických génov z BGC pre polyketidovú protinádorovú látku mitramycín (mtmP, mtmK, mtmS, mtmQ, mtmY, mtmL, mtmX, mtmTI, mtmTII, mtmOII), kde po integrácii výsledného konštruktu v integračnom vektore na báze fágu PhiC31 pOri6-mtmPKSTIOIYQLOIIOIITIIXop do chromozómu S. coelicolor M1146 dochádzalo k produkcii medziproduktu mitramycínu, 4?demetylpremitramycinonu (4-DMPC). Podobne sme tento systém testovali pre dva ďalšie mitramycínové biosyntetické gény, lanMI a lanMII, kódujúce O-metyltansferázu a C-metyltransferázu, ktoré by mali katalyzovať prenos metylu do polohy 4-OH alebo C-2 mitramycínového aglykónu 4-DMPC. Oba gény boli podobne amplifikované a klonované za tvorby nezávislým monocistronických jednotiek kasOp* - mtmMI - T8 a kasOp* - mtmMII - T10, ktoré boli postupne klonované a kombinované v kompatibilnom integračnom vektore pOri12, za vzniku pOri12-mtmMI a pOri12-mtmMIMII, ktoré boli integrované do chromozómu S. coelicolor M1146 obsahujúceho integrovaný kompatibilný vektor pOri6-mtmPKSTIOIYQLOIIOIIITIIXop. HPLC analýza s v prípade pOri12-mtmMI ukázala, že pík pre 4-DMPC sa redukoval a vznikol nový pík s odlišnou Rt hodnotou. Je spektrálne vlastnosti a hmotnosť stanovená pomocou HR ESI MS dokázala, že sa jedná o správne metylovaný premitramycinón (PMC). Avšak v prípade pOri12-mtmMIMII dochádzalo iba k tvorbe tej istej látky ako v prípade pOri12-mtmMI. Preto druhá C-metyltransferáza MtmMII pravdepodobne nie je aktívna na tento neglykozylovaný produkt, a pre danú metyláciu pozície C2 je potrebný čiastočne glykozylovaný medziprodukt.
Týmto ďalším experimentom sme overili tento nový systém syntetickej biológie založenom na monocitronických transkripčných jednotkách, čo umožňuje jeho použitie pri biosyntéze nových a modifikovaných sekundárnych metabolitov s potenciálne novými biologickými vlastnoťami.

Publikácie

1, Csolleiova D, Javorova R, Novakova R, Feckova L, Matulova M, Opaterny F, Rezuchova D, Sevcikova B, Kormanec J: Investigating the initial steps of auricin biosynthesis using synthetic biology. AMB Express 13 (2023) 83.

Kapitola v knihe
1, Rebets Y, Kormanec J, Lutzhetskyy A, Bernaerts K, Anné J: Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Its Subsequent Fermentation for Optimized Production. In: Streit WR, Daniel R. (eds.) Metagenomics. Methods in Molecular Biology, vol. 2555, Humana New York, NY, 2023, pp. 213-260. doi: 10.1007/978-1-0716-2795-2_16, ISBN: 978-1-0716-2794-5.

Účasť na domácich konferenciách

1, Feckova L, Javorova R, Rezuchova B, Csolleiova D, Novakova R, Opaterny F, Kormanec J,: Overproduction of the auricin-specific activator Aur1P induced type I polyketide synthase product strevertene A. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 129. ISBN 978-80-8240-047-5.

2, Javorova R, Opaterny F, Feckova L, Rezuchova B, Csolleiova D, Novakova R, Kormanec J.: Activation of a silent biosynthetic gene cluster for a type I polyketide synthase secondary metabolite in Streptomyces lavendulae subsp. lavendulae CCM 3239. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 155. ISBN 978-80-8240-047-5.

3, Novakova R, Feckova L, Uhliarikova I, Matulova M, Patoprsty V, Opaterny F, Javorova R, Jakubikova J, Sedlak J, Rezuchova B, Csolleiova D, Kormanec J.: Characterization of the late step of auricin biosynthesis in Streptomyces lavendulae subsp. lavendulae CCM 3239. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 170. ISBN 978-80-8240-047-5.

4, Opaterny F, Feckova L, Javorova R, Rezuchova B, Csolleiova D, Novakova R, Kormanec J.: Activation of a silent biosynthetic gene cluster for an unknown NRPS secondary metabolite in Streptomyces lavendulae subsp. lavendulae CCM 3239. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 175. ISBN 978-80-8240-047-5.

5, Rezuchova B, Opaterny F, Feckova L, Javorova R, Csolleiova D, Novakova R, Kormanec J.: A new synthetic biology system for investigating the biosynthesis of aromatic polyketide antibiotics. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 185. ISBN 978-80-8240-047-5.

23.) Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. APVV-19-0298 *(Interaction between proteases, chaperones and kinases in*

stress condition cause by pathological conditions.)

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0298
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 40000 €

Dosiahnuté výsledky:
Pripravili sme fosforylované formy proteínu TRAP1 a ko-šaperónov mortalínu GrpE1, Hep1 a charakterizovali sme tvorbu a vlastnosti komplexu mortalínu s GrpE1 pomocou elektrónovej mikroskopie. Študovali sme zmenu šaperónovej aktivity v pripravených fosforylovaných proteínoch a zaviedli sme novú, citlivejšiu metódu merania šaperónovej aktivity pomocou luciferázy.

24.) Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19 *(The double-edged sword of the plasminogen system: From homeostasis maintenance to COVID-19)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0513
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 33806 €

Dosiahnuté výsledky:
Opublikovali sme veľký prehľadový článok "Time to Kill and Time to Heal: The Multifaceted Role of Lactoferrin and Lactoferricin in Host Defense" v časopise PHARMACEUTICS (15,4, DOI10.3390/pharmaceutics15041056). Vedúci výskumu Vladimír Leksa bol pozvaný prezentovať naše výsledky na 13TH C1-INHIBITOR DEFICIENCY AND ANGIOEDEMA WORKSHOP (4-7-máj, 2023). V súčasnosti pracujeme na dokončení dvoch manuskriptov týkajúcich sa dvoch hlavných cieľov projektu - štúdia funkcií laktoferínu a diagnostiky pľúcnej fibrózy.

25.) Nový pohľad na biochemické a funkčné vlastnosti hlavných antibakteriálnych zložiek medu *(New insight into biochemical and functional properties of the major antibacterial components of honey)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0262
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských	0

inštitúcií:
Čerpané financie: APVV: 35406 €

Dosiahnuté výsledky:
Publikácia:
BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - GUEYTE, Romain - CHAMBREY, Céline - MAJTÁN, Juraj**. Characterisation of physicochemical parameters and antibacterial properties of New Caledonian honeys. In PLoS ONE, 2023, vol. 18, iss. 10, art. no. e0293730. (2022: 3.7 - IF, Q2 - JCR, 0.885 - SJR, Q1 - SJR). ISSN 1932-6203.

26.) Mikrobiálne kontaminanty v tradičných slovenských syroch: ich eliminácia vedeckými nástrojmi založenými na kvantitatívnej analýze a matematickom modelovaní *(Microbial contaminants in traditional Slovakian cheeses: their elimination by scientific tools based on quantitative analysis and mathematical modelling)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0031
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská technická univerzita v Bratislave Fakulta chemickej a potravinárskej technológie
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 10000 €

Dosiahnuté výsledky:
Bola dokončená analýza na určenie rastových charakteristík a dynamiky Mucor circinelloides. Rast húb na Skim Milk agare pri rôznych teplotách (6, 8, 12, 15, 18, 21, 33, 37 °C) a koncentrácii NaCl (0, 1, 2 %). Prebieha spracovanie údajov.

27.) Štartovacie a prídavné kultúry na výrobu slovenskej bryndze s tradičnými organoleptickými vlastnosťami. *(Microbial starters and adjunct cultures for production of Slovakian bryndza cheese with traditional organoleptic properties)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0001
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národné poľnohospodárske a potravinárske centrum; Výskumný ústav potravinársky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 22000 €

Dosiahnuté výsledky:
Vzorky zo vzduchu, povrchov a srvátky sme odobrali v ďalších 4 rôznych mliekarňach po celom Slovensku [Farma Bukovina, Farma Vtáčnik, Farma Liptovská Teplička, Farma Zlatý Hýľ (Nováčany) a Farma Oľga Apoleníková (Pružina)]. Vzorky sa použili na skúmanie mikrobioty

prístupmi závislými od kultúry (tradičné mikrobiologické metódy) a nezávislými od kultúry (vysokovýkonné sekvenovanie, platforma MinION). V súčasnosti prebieha bioinformatická analýza.

Conference: Preveda Interaktívna Konferencia Mladých Vedcov 2023; 22. máj - 30. jún, 2023. Metagenomická analýza mikrobiómu srvátky využitím Oxford Nanopore sekvenovania. Nikola Klištincová, Francesca Maisto, Mária Bučková, Domenico Pangallo, Janka Koreňová, Tomáš Kuchta.
Conference: Študentská vedecká konferencia PriF UK 2023; 26. apríl 2023, Bratislava. Metagenomická analýza environmentálych vzoriek vzduchu odobraných z výrobne bryndze. Nikola Klištincová, Francesca Maisto, Mária Bučková, Domenico Pangallo

28.) Interakcia proteínu Mmi1/TCTP s mitochondriami *(Interaction of Mmi1/TCTP protein with mitochondria)*

Zodpovedný riešiteľ:	Vladimír Pevala
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	SK-CZ-RD-21-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 40000 €

Dosiahnuté výsledky:
Počas druhého roku riešenia projektu sme pripravili expresné konštrukty na expresiu TCTP proteínu v E. coli a to wt verzie a siedmych fosforylovaných verzií proteínu pomocou ortogonálneho translačného systému pre inkorporáciu fosfo-serínu a pCMF (nehydrolyzovateľného analógu fosfotyrozínu). Pripravili sme postup na izoláciu TCTP a Mmi1 proteínu, optimalizovali roztok pre proteín pomocou nanoDSF a kryštalizovali wt verzie proteínov. Exprimovali a izolovali sme fosforylované verzie Mmi1 a TCTP proteínu pre in-vitro charakterizáciu a väzbu na mitochondrie. Naizolovali sme kvasinkové mitochondrie z delta Mmi1 kmeňa pre pulldown a interakciu s Mmi1 proteínom.

29.) Črevná mikrobiota a diabetická periferálna neuropatia: účinok cemtirestatu v potkaňom modely diabetu. *(Gut microbiota and diabetic peripheral neuropathy: effect of cemtirestat in rat models of diabetes.)*

Zodpovedný riešiteľ:	Milan Štefek
Zodpovedný riešiteľ v organizácii SAV:	Domenico Pangallo
Trvanie projektu:	1.8.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0411
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 30000 €

Dosiahnuté výsledky:

Bioinformatická analýza črevného mikrobiómu 16 potkanov preukázala, že liek (Cemtirestat) nemá významný vplyv na zloženie mikrobiálnej komunity v ošetrených vzorkách, pretože nevykazovali jasné oddelenie od neošetrených vzoriek. Skôr sa zdá, že každý potkan má podobnosti a rozdiely v porovnaní s ostatnými, čo naznačuje, že každý potkan má jedinečný mikrobióm, ktorý je určený faktormi, ako je genetické pozadie, pohlavie a fyzické faktory.

Conference: Power of Microbes in Industry and Environment; May 15-18, 2023; Poreč, Croatia. Poster: Screening of Mutual Interactions of Intestinal Microbiota and Cemtirestat in Rat Models of Diabetes. Zuzana Farkas, Jelena Pavlović, Magdaléna Rusková, Marek Lepáček, Nikola Klištincová, Francesca Maisto, Mária Bučková, Andrea Puškárová, Marta Šoltésová Prnová, Milan Štefek, Domenico Pangallo.

Conference: 12TH PROBIOTICS, PREBIOTICS & NEW FOODS, NUTRACEUTICALS, BOTANICALS & PHYTOCHEMICALS FOR NUTRITION & HUMAN, ANIMAL AND MICROBIOTA HEALTH, THE INFLUENCE OF CEMTIRESTAT ON INTESTINAL MICROBIOTA IN RAT MODELS OF DIABETES; ROME, SEPTEMBER 16 - 19, 2023. Mária Bučková, Andrea Puškárová, Nikola Klištincová, Francesca Maisto, Jelena Pavlović, Marek Lepáček, Marta Šoltésová Prnová, Domenico Pangallo.

30.) Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách *(Fungal Hybrid Heme Peroxidases from Primeval Forest with Application in Environmental Biotechnologies)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0284
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 16498 €

Dosiahnuté výsledky:
Realizovali sme systematický screening rôznych génových rodín peroxidáz v pôdnych vzorkách získaných z Badínskeho pralesa i príbuzných lesných lokalít. Získané výsledky zamerané na rozsiahle sekvenčné fylogenetické analýzy boli prezentované v recenzovaných publikáciách. V práci Biology-Basel (2023) 12:19 sme sa zamerali na evolučnú štúdiu génov zahrnutých do metabolického cyklu askorbátu a glutatiónu s antioxidačnými účinkami. V článku Antioxidants (2023) 12:1387 bolo cieľom demonštrovať vplyv expresie vybranej askorbátovej peroxidázy na toleranciu modelových rastlín voči stresu spôsobeného suchotou pôdy. V ďalšej publikácii ktorá vyšla v Antioxidants (2023) 12:1382 sme porovnávali enzýmovú reaktivitu bifunkčných kataláz-peroxidáz izolovaných z vybraných termofilných a mezofilných askomycét. Objavili sme prítomnosť unikátnej post-translačnej modifikácie v aktívnom centre oboch študovaných enzýmov. Termofilný variant našiel uplatnenie aj v odstraňovaní farebných pečiatok ako bolo publikované v článku Int. J. Biol. Macromol. (2023) 242:124599 a napokon sme urobili fylogenetický výskum enzýmov protoporfyrinogén oxidáz, ktoré sú zodpovedné za biosyntézu prostetickej hémovej skupiny so železom, ktorá je nevyhnutná pri fungovaní všetkých hémových peroxidáz a kataláz. Výsledky tejto analýzy boli publikované v Biology-Basel (2023) 12:1527.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

31.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2020 / 30.6.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Univerzitný Vedecký park
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ŠF: 183000 €

Dosiahnuté výsledky:
Spracovali sme na uskladnenie ďalších 550 vzoriek výkalov zdravých ľudí, ľudí s Lynchovým syndrómom a pacientov postihnutých kolorektálnym karcinómom. Z týchto vzoriek sa extrahovala DNA a mikrobiómová analýza vzoriek sa uskutočnila pomocou sekvenátora MiSeq (Illumina). Bioinformatická identifikácia mikrobiómu sa spracováva.

Planý, M., Sitarčík, J., Pavlović, J., Budiš, J., Koreňová, J., Kuchta, T. and Pangallo, D., 2023. Evaluation of bacterial consortia associated with dairy fermentation by ribosomal RNA (rrn) operon metabarcoding strategy using MinION device. Food Bioscience, 51, p.102308.

Programy: DoktoGranty

32.) Štúdium injekčného mechanizmu bakteriofága BFK20 pomocou dvojhybridného bakteriálneho systému (BACTH) *(The Study of Phage BFK20 Injection Mechanism Using Two Hybrid Bacterial System (BACTH))*

Zodpovedný riešiteľ:	Kristína Pápayová
Trvanie projektu:	1.1.2023 / 31.12.2023
Evidenčné číslo projektu:	APP0418
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoktoGrant SAV: 2000 €

Dosiahnuté výsledky:
Cieľom projektu bolo bližšie preskúmanie možných interakcií na rozhraní bakteriofág – hostiteľ medzi chvostíkovým proteínom bakteriofága BFK20 a membránovými proteínmi [Brevibacterium] flavum CCM 251. Na základe predošlých štúdií sme pomocou bioinformatickej analýzy identifikovali 4 membránové proteíny, ktoré by mohli slúžiť ako receptory pre väzbu fágového chvostíka – ABC transportér (ATP binding cassete), PPI (peptidyl-prolyl izoméra), FKBP (peptidyl-prolyl cis-trans izomeráza typu FKBP) a PTS transportér (fosfo-transferázový systém). Na základe analýzy sekundárnej štruktúry chvostíkového proteínu gp15 bakteriofága BFK20 sme identifikovali dve doménové oblasti (SLT a TMP), ktoré boli neskôr použité pri konštrukcii rekombinantných vektorov. Kotransformáciou pomocou dvojhybridného bakteriálneho systému (BACTH) sme v bunkách E. coli BTH101 súčasne exprimovali dvojicu rekombinantných proteínov (SLT, TMP a ABC, FKBP, PPI, PTS). Interakcia proteínov sa v BACTH systéme prejavuje beta-galaktozidázovou aktivitou na špecifickom substráte, avšak v nami zvolených

kombináciách proteínov sa nepotvrdila žiadna z predpokladaných interakcií. Nakoľko domény SLT a TMP tvoria len podielovú časť chvostíkového proteínu gp15, nie je možné s určitosťou potvrdiť absenciu interakcií medzi fágovým chvostíkom a vybranými membránovými proteínmi hostiteľskej bunky. Gp15 je najväčším proteínom bakteriofága BFK20 a jeho štruktúrne vlastnosti a interakcie s inými proteínmi sa môžu značne líšiť v porovnaní so samostatnými proteínovými doménami.

Programy: IMPULZ

33.) Implementácia G4 DNA do genetického inžinierstva baktérii. *(G-quadruplex DNA for Genetic Engineering in Bacteria)*

Zodpovedný riešiteľ:	Ján Jamroškovič
Trvanie projektu:	1.11.2023 / 31.10.2028
Evidenčné číslo projektu:	IM-2022-62
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Projekt sa začal v Novembri 2023 na ÚMB SAV nástupom Dr. Jamroškoviča do zamestnania. V Decembri sa jeho tím sa rozšíril o dve odborné pracovníčky. Hlavným cieľom v roku 2023 bola príprava nového laboratória a pracovnej skupiny.

Programy: Plán obnovy EÚ

34.) Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu *(Covid-19 and long covid at the molecular level - biomarkers, tools and targets for diagnosis and therapy)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.9.2023 / 31.8.2027
Evidenčné číslo projektu:	09I03-03-V02-00047
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
Cieľom projektu je charakterizovať laktoferín ako potenciálne doplnkové liečivo pri akútnom aj chronickom ochorení covid-19. Projekt začal v septembri 2023 nástupom Mgr. Patrika Babulica na doktorandské štúdium.

35.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine č. 09I03-03-V01-00113 *(The stipend for a scientist threatened by the war in Ukraine č. 09I03-03-V01-00113)*

Zodpovedný riešiteľ:	Tetiana Moskalets

Trvanie projektu:	1.11.2022 / 31.10.2025
Evidenčné číslo projektu:	09I03-03-V01-00113
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Plán obnovy EÚ: 55150 €

Dosiahnuté výsledky:

V minulom roku sa nám podarilo opublikovať veľký prehľadový článok zameraný na funkcie laktoferínu so zvláštnym zreteľom na jeho potenciálnu úlohu pri liečbe covidu-19. RNDr. Tetiana Moskalets sa naplno zapojila aj do práce na článku aj do experimentálnej práce.

PhD T. Moskalets v sledovanom období zvládla všeobecné metódy práce s bunkovými kultúrami, Western Blot a PCR. Vylepšila prvok techniky týkajúci sa vlastností nanášania substrátu na polyvinylidénfluoridovú membránu počas detekcie proteínov.

Spomedzi množstva biologicky aktívnych rastlinných látok sa pani Moskalets, spoliehajúcej sa na látky rastlinného pôvodu s potenciálnou antifibrotickou aktivitou, podarilo vybrať tie z nich, najmä bioflavonoidy (Hesperidín, Hesperetin, Kurkumín a Kvercetín), ktoré vykazujú jasný inhibičný účinok na proces epiteliálno-mezenchymálnej transformácie (EMT). Pokračuje tiež v objavovaní molekulárnych mechanizmov vplyvu rastlinných látok na proces inhibície epiteliálno-mezenchymálnej transformácie. Už identifikovala niektoré biochemické markery (a-SMA, Vimentin, fibronektín, kolagén, E-kadherín a in.), ako dôležité kritériá EMT a reverzibilný proces mezenchymálno-epiteliálnej transformácie (MET). Prijaté údaje sú plánované na zverejnenie.

Počas mája až júna 2023 bola p. Tetiana školiteľkou Stepana Sarukhanjana, študenta tretieho ročníka Katedry biochémie Fakulty biológie a medicíny Kyjevskej národnej univerzity Tarasa Ševčenka (Ukrajina), ktorý ovládal metódy SDS-PAGE, Západné blot, kultiváciu buniek a funkčnú analýzu in vitro. V júni 2023 študent úspešne obhájil prax s 98 bodmi (A).

Od septembra 2023 dodnes je RNDr. PhD T. Moskalets oficiálnou vedeckou školiteľkou bakalárskej práce študenta IV ročníka KNU S. Sarukhanyana, ktorý pracuje na téme „Štúdium molekulárnych mechanizmov fibrózy za biochemickými markeramy na príklade buniek pľúcneho epitelu A 549“ (obhajobná bakalárska práca je plánovaná na máj 2024). Vo svojej práci S. Sarukhanyan pod vedením p. Tetiany študuje látky a ich koncentrácie, ktoré spôsobujú proces pľúcnej fibrózy, skúma látky a ich koncentrácie (chemické, už známe aj menej známe rastlinné látky) ako potenciálnych antagonistov procesu pľúcnej fibrózy podľa biochemických markerov.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 REBERTS, Xuriy - KORMANEC, Ján - LUTZHETSKYY, Andriy - BERNAERTS, Kristel - ANNÉ, J. Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Its Subsequent Fermentation for Optimized Production. In Metagenomics : Methods and Protocols. 3. ed. - New York : Humana Press : Springer Nature, 2023, pp. 213-260. (2022: 0.422 - SJR, Q3 - SJR). ISBN 978-1-0716-2794-5. Dostupné na: https://doi.org/10.1007/978-1-0716-2795-2_16

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ADCA02 FARKAS, Zuzana - PUŠKÁROVÁ, Andrea - OPÁLKOVÁ ŠIŠKOVÁ, Alena - POLJOVKA, Andrej - ZÁMOCKÝ, Marcel - VADKERTI, Eva - URÍK, Martin - FARKAS, Bence - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Evaluation of enzymatic stamp removal startegies on handmade (cellulose-based) and machine-made (lignin-containing) papers. In International Journal of Biological Macromolecules, 2023, vol. 242, art. no. 124599. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.124599

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ADCA04 HOFBAUEROVÁ, Monika, Benkovičová - RUSKOVÁ, Magdaléna - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ANNUŠOVÁ, Adriana - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - GRANATA, Giuseppe - NAPOLI, Edoardo - GERACI, C. - PANGALLO, Domenico**. Protection and Disinfection Activities of Oregano and Thyme Essential Oils Encapsulated in Poly(ε-caprolactone) Nanocapsules. In Molecules, 2023, vol. 28, no. 3, art. no. 1018. (2022: 4.6 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules28031018 (VEGA 2/0082/22 : Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov)

ADCA05 CHOLUJOVÁ, Dana - BEKE, Gábor - HUNTER, Zachary R. - HIDESHIMA, Teru

- FLORES, Ludmila - ZELEZNIKOVA, Tatiana - HARRACHOVA, Denisa - KĽUČÁR, Ľuboš - LEIBA, Merav - DRGOŇA, Ľuboš - TREON, Steven P. - KASTRITIS, Efstathios - DORFMAN, David M. - ANDERSON, Kenneth C. - JAKUBÍKOVÁ, Jana**. Dysfunctions of innate and adaptive immune tumor microenvironment in Waldenström macroglobulinemia. In International Journal of Cancer, 2023, vol. 152, no. 9, p. 1947-1963. (2022: 6.4 - IF, Q1 - JCR, 2.259 - SJR, Q1 - SJR). ISSN 0020-7136. Dostupné na: https://doi.org/10.1002/ijc.34405 (APVV-16-0484 : Nádorová heterogenita v mnohopočetnom myelóme: evolúcia a klinická významnosť. APVV-19-0212 : Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov. APVV-20-0183 : Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance)

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ADCA08 JARDIN-MESSEDER, Douglas - DE SOUZA-VIEIRA, Ygor - CORRêA LAVAQUIAL, Lucas - CASSOL, Daniela - GALHEGO, Vanessa - BASTON, Gabriel Afonso - FELIX-CORDEIRO, Thais - ZÁMOCKÝ, Marcel - MARGIS-PINGEIRO, Márcia - SACHETTO-MARTINS, Gilberto. Ascorbate-Glutathione Cycle Genes Families in Euphorbiaceae: Characterization and Evolutionary Analysis. In Biology-Basel, 2023, vol. 12, no. 1, art. no. 19. (2022: 4.2 - IF, Q2 - JCR, 0.779 - SJR, Q1 - SJR). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology12010019 (VEGA č. 2/0012/22)

ADCA09 KODRÍKOVÁ, Rebeka - PAKANOVÁ, Zuzana** - KRCHŇÁK, Maroš - ŠEDIVÁ, Mária - ŠESTÁK, Sergej - KVĚTOŇ, Filip - BEKE, Gábor - ŠALIGOVÁ, Anna - SKALICKÁ, Katarína - BRENNEROVÁ, Katarína - JANČOVÁ, Emília - BARÁTH, Peter - MUCHA, Ján - NEMČOVIČ, Marek. N-Glycoprofiling of SLC35A2-CDG: Patient with a Novel Hemizygous Variant. In Biomedicines, 2023, vol. 11, iss. 580, art. no. 11020580. (2022: 4.7 - IF, Q1 - JCR, 0.897 - SJR, Q1 - SJR). ISSN 2227-9059. Dostupné na: https://doi.org/10.3390/biomedicines11020580

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ADCA11 PAVLOVIĆ, Jelena - PUŠKÁROVÁ, Andrea - PLANÝ, Matej - FARKAS, Zuzana - RUSKOVÁ, Magdaléna - KVÁLOVÁ, Katarína - KRAKOVÁ, Lucia - BUČKOVÁ, Mária - PANGALLO, Domenico**. Colored stains: Microbial survey of cellulose-based and lignin rich papers. In International Journal of Biological Macromolecules, 2023, vol. 241, art. no. 124456. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.124456

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ADMA04 CSÖLLEIOVÁ, Dominika - JAVOROVÁ, Rachel - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - MATULOVÁ, Mária - OPATERNÝ, Filip - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján**. Investigating the initial steps of auricin biosynthesis using synthetic biology. In AMB Express, 2023, vol. 13, art. no. 83. (2022: 3.7 - IF, Q2 - JCR, 0.693 - SJR, Q2 - SJR). ISSN 2191-0855. Dostupné na: https://doi.org/10.1186/s13568-023-01591-2

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ADMA07 MEŠKOVÁ, Klaudia - MÁRTONOVÁ, Gabriela - HRASNOVA, Patricia - SINSKA, Kristina - ŠKRABANOVÁ, Michaela - FIALOVÁ, Ľubica - NJEMOGA, Stefana - CEHLÁR, Ondrej - PARMAR, Oľga - KOLENKO, Petr - PEVALA, Vladimír - ŠKRABANA, Rostislav**. Cost-Effective Protein Production in CHO Cells Following Polyethylenimine-Mediated Gene Delivery Showcased by the Production and Crystallization of Antibody Fabs. In Antibodies [textový dokument (print)], 2023, vol. 12, iss. 3, art. no. 51. (2022: 4.7 - IF, 1.697 - SJR, Q1 - SJR). ISSN 2073-4468. Dostupné na: https://doi.org/10.3390/antib12030051

ADMA08 OHRADANOVA-REPIC, Anna** - PRAŽENICOVÁ, Romana - GEBETSBERGER, Laura - MOSKTALETS, Tetiana - SKRABANA, R. - CEHLÁR, Ondrej - TAJTI, Gabor - STOCKINGER, Hannes - LEKSA, Vladimír**. Time to Kill and Time to Heal: The Multifaceted Role of Lactoferrin and Lactoferricin in Host Defense. In Pharmaceutics, 2023, vol. 15, iss. 4, art. no. 1056. (2022: 5.4 - IF, Q1 - JCR, 0.795 - SJR, Q1 - SJR). ISSN 1999-4923. Dostupné na: https://doi.org/10.3390/pharmaceutics15041056

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ADMA11 SARDZIKOVÁ, S. - ANDRIJKOVA, Kristina - ŠVEC, P. - BEKE, Gábor - KĽUČÁR, Ľuboš - MINÁRIK, Gabriel - BIELIK, V. - KOLENOVÁ, Alexandra - ŠOLTYS, Katarína**. High Diversity but Monodominance of Multidrug-Resistant Bacteria in Immunocompromised Pediatric Patients with Acute Lymphoblastic Leukemia Developing GVHD Are Not Associated with Changes in Gut Mycobiome. In Antibiotics, 2023, vol. 12, iss. 12, art. no. 1667. (2022: 4.8 - IF, Q1 - JCR, 0.792 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na:

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ADMA12 VETRÁKOVÁ, Andrea - KALIANKOVÁ-CHOVANOVÁ, Romana - RECHTORÍKOVÁ, Radoslava - KRAJČÍKOVÁ, Daniela - BARÁK, Imrich**. Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. In Computational and Structural Biotechnology Journal, 2023, vol. 20, pp. 1550-1556. (2022: 6 - IF, Q1 - JCR, 1.579 - SJR, Q1 - SJR). ISSN 2001-0370. Dostupné na: https://doi.org/10.1016/j.csbj.2023.02.007

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ADMB03 SADIAN, Y. - GATSOGIANNIS, C. - PATASI, Csilla - HOFNAGEL, O. - GOODY, R.S. - FARKAŠOVSKÝ, Marian - RAUNSER, S. The role of Cdc42 and Gic1 in the regulation of septin filament formation and dissociation. In eLife, 2013, vol. 2, no. e01085. (2013 - SCOPUS). ISSN 2050-084X. Dostupné na: https://doi.org/10.7554/eLife.01085

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BDMA Odborné práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

BDMA01 MARVASI, M.** - PANGALLO, Domenico - CAVALIERI, D. - POYATOS-JIMÉNEZ 3, F. Editorial: Multi-Omics Revolution in Microbial Cultural Heritage Conservation. In Frontiers in Microbiology, 2021, vol. 12, no. 720509. (2020: 5.640 - IF, Q1 - JCR, 1.701 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2021.720509

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Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Jacob Bauer, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra Biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra chémie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 10
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.

Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladimír Leksa, PhD.
Názov semestr. predmetu: základy molekulárnej imunológie
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, katedra biochémie PriFUK

RNDr. Ľubica Urbániková, CSc.
Názov semestr. predmetu: Štruktúrna biológia - Kryštalografia proteínov a nukleových kyselín
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochémie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Bioanorganická chémia
Počet hodín za semester: 11
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Biological chemistry
Počet hodín za semester: 8
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

Semestrálne cvičenia:

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Laboratórne cvičenia z aplikovanej biológieII
Počet hodín za semester: 5
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra Biológie

Mgr. Dominika Galová
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 40
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Milan Hučko
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 52
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Iveta Jahodová
Názov semestr. predmetu: Biochémia
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra chémie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 10
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Filip Opaterný
Názov semestr. predmetu: Cvičenia z molekulárnej biológie (po anglicky)
Počet hodín za semester: 8
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Kristína Pápayová
Názov semestr. predmetu: Molekulárna biológia - cvičenia
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Cvičenie k bakalárskej práci z bioanorganickej chémie
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

Semináre:

Jacob Bauer, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Bioinformatická identifikácia a expresia domén z multidoménových proteínov a ich biofyzikálna charakterizácia CD-spektroskopiou a nano-diferenčnou skenovacou fluorimetriou (nanoDSF)
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Fakulta prírodných vied

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra Biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Základy imunológie
Počet hodín za semester: 5
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Applikovaná biológia

Terénne cvičenia:

Individuálne prednášky:

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Genetika modelovych organizmov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra genetiky

RNDr. Imrich Barák, DrSc.

Názov semestr. predmetu: Pokrocile prednasky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochemie

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Univerzita tretieho veku

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Bioanorganická chémia
Počet hodín za semester: 8
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

Príloha A-5

Medzinárodná mobilita organizácie

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

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Belgicko					Juraj Majtán	3
Česko					Eva Kutejová	2
					Gabriela Ondrovičová	1
					Ľubica Urbániková	7
Dánsko					Štefan Janeček	15
Írsko					Ľuboš Kľučár	5
					Juraj Majtán	3
Maďarsko					Domenico Pangallo	3
Nemecko					Imrich Barák	5
					Daniela Krajčíková	5
Rakúsko	Marcela Bučeková	180			Marcel Zámocký	3
Taliansko					Nikola Klištincová	6
					Ľuboš Kľučár	5
					Lucia Kraková	7
					Domenico Pangallo	12
					Domenico Pangallo	7
					Jelena Pavlović	6
USA					Naďa Labajová	150
Počet vyslaní spolu	**1**	**180**			**18**	**245**

(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**

Srbsko					Teodora Djakovic	75
Taliansko					Alessio Fontanot	90
					Maria Teresa Rodinó	83
					Pierluca Nuccetelli	225
Počet prijatí spolu					**4**	**473**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	konzervátorů-restaurátorů 2023	Domenico Pangallo	3
	Struktura 2023	Eva Kutejová	5
Francúzsko	ISMB/ECCB 2023	Gábor Beke	6
		Milan Hučko	6
Chorvátsko	Power of Microbes 2023	Zuzana Farkas	6
		Jelena Pavlović	6
		Magdaléna Rusková	6
	Protein quality control: From molecular mechanisms	Henrieta Havalová	6
		Nina Kunová	6
		Vladimír Pevala	6
Maďarsko (online)	Human Peroxidase Meeting	Marcel Zámocký	4
Nemecko	Bacell Conference	Imrich Barák	4
	FEMS2023	Kristína Pápayová	6
Rakúsko	Microbial Stress 2023	Bohuš Kubala	3
Rakúsko (online)	erc-bpcr 2023	Domenico Pangallo	2
Švédsko	Seminar series	Imrich Barák	3
Taliansko	EWMA 2023	Marcela Bučeková	5
		Juraj Majtán	5
	PROBIOTICS, PREBIOTICS & NEW FOODS 2023	Mária Bučková	5
		Andrea Puškárová	5
USA	Minisymposium	Naďa Labajová	3
Veľká Británia	Spores Conference	Imrich Barák	4
		Katarína Muchová	4
Spolu	**15**	**23**	**109**

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

Skratky použité v tabuľke C:

Bacell Conference - Bacell Conference
erc-bpcr 2023 - Written heritage: new challenges and perspectives Online conference of the European Research Centre for Book and Paper Conservation–Restoration
EWMA 2023 - 33rd conference of European wound management association 2023
FEMS2023 - 10th FEMS Congress of European Microbiologists
Human Peroxidase Meeting - 12th International Human Peroxidase Meeting Budapest
ISMB/ECCB 2023 - The 31st Annual Intelligent Systems For Molecular Biology and the 22nd Annual European Conference on Computational Biology
konzervátorů-restaurátorů 2023 - Konference konzervátorů-restaurátorů 2023 ve Zlíně
Microbial Stress 2023 - 6th meeting on Microbial Responses to Stress
Minisymposium - Minisymposium of Department of Biological Chemistry and Molecular Pharmacology, Harvard University,
Power of Microbes 2023 - Power of Microbes in Industry and Environment 2023
PROBIOTICS, PREBIOTICS & NEW FOODS 2023 - 12TH PROBIOTICS, PREBIOTICS & NEW FOODS NUTRACEUTICALS, BOTANICALS & PHYTOCHEMICALS FOR NUTRITION & HUMAN, ANIMAL AND MICROBIOTA HEALTH
Protein quality control: From molecular mechanisms - EMBO workshop Protein quality control: From molecular mechanisms to therapeutic intervention
Seminar series - Seminar series University of Umea
Spores Conference - 10th European Spores Conference
Struktura 2023 - Struktura 2023

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok

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

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2023

Domáce ocenenia

Ocenenia SAV

Iné domáce ocenenia

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.