Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2024

Bratislava
február 2025

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ČASŤ A

Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti organizácie za rok 2024

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav molekulárnej biológie SAV, v. v. i.
Riaditeľ: RNDr. Imrich Barák, DrSc.
1. zástupca riaditeľa: Ing. Juraj Majtán, DrSc., MBA, FIFST
2. zástupca riaditeľa: Mgr. Pavol Pataky
Vedecký tajomník: RNDr. Lucia Bocánová, PhD.
Predseda správnej rady: RNDr. Imrich Barák, DrSc.
Predseda vedeckej rady: Mgr. Ľuboš Kľučár, PhD.
Predseda dozornej rady: prof. RNDr. Ľubica Lacinová, DrSc.
Člen Snemu SAV: Mgr. Ľuboš Kľučár, PhD.
Adresa: Dúbravská cesta 21, 845 51 Bratislava 45

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

Tel.: 0259307411
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	75	24	51	3	11	71	64.0	52.27	4
Vedeckí pracovníci	46	18	28	1	6	43	38.99	38.99	1

Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	15	2	13	2	5	14	10.98	10.62	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	3	1	2	0	0	3	2.62	0	0
Odborní pracovníci ÚS	4	0	4	0	0	4	4.44	2.66	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 31.12.2024 (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 31.12.2024 (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 31.12.2024)

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	8	4
Ženy	1	27	0	0	1	18	9

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	2	1.5	3	3.0	3	3.0	2	2.0	4	4.0	0	0.0
Ženy	6	3.7	2	2.0	5	5.0	3	2.5	7	6.2	2	2.0	0	0.0	9	9.0	4	3.3

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	49.9	50.4	48.0
Ženy	47.6	46.7	48.1
Spolu	48.4	48.1	48.1

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

V roku 2024 sa ukončilo funkčné obdobie riaditeľky Ing. Evy Kutejovej, DrSc. (30.11. 2024) a na základe výsledku výberového konania bol Predsedníctvom SAV menovaný nový riaditeľ ÚMB SAV, v. v. i., RNDr. Imrich Barák, DrSc., ktorý nastúpil na pozíciu riaditeľa ústavu od 1. 12. 2024. Na pozíciu zástupcu riaditeľa bol menovaný Ing. Juraj Majtán, DrSc., ktorý sa zároveň vzdal členstva vo vedeckej rade ÚMB SAV, v. v. i. k 30. 11. 2024.

Na konci roku 2024 prišlo k personálnym zmenám aj na úrovni oddelení a pracovných skupín. Na pozíciu vedúceho oddelenia „Biochémia a štruktúra proteínov“ bol navrhnutý prof. Ing. Štefan Janeček, DrSc., ktorý nahradil Ing. Evu Kutejovú, DrSc., ktorej pracovný úväzok od 1. 12. 2024 je 30%. Zároveň na pozíciu vedúceho pracovnej skupiny „Biochémia a štruktúra proteínov“ bol navrhnutý RNDr. Vladimír Pevala, PhD., ktorý nahradil Ing. Evu Kutejovú, DrSc.
Z pracovnej skupiny „Génová expresia“ odišla do dôchodku Renáta Knirschová a bola prijatá Mgr. Dominika Csölleiová, PhD. Do pracovnej skupiny „Biochémia a štruktúra proteínov“ bola prijatá Mgr. Henrieta Havalová, PhD. Do pracovnej skupiny „Syntetická mikrobiológia“ bol prijatý Ing. Pavol Vadovič, PhD. a odišla MSc. Lucia Nemčovičová . Personálne zmeny nastali aj v pracovnej skupine „Mikrobiálna Genetika“, kde ukončili pracovný pomer RNDr. Jana Júdová, PhD., RNDr. Romana Kalianková-Chovanová, PhD. a Mgr. Naďa Labajová, PhD a bola prijatá Ing. Ľudmila Slivka Vávrová, PhD. na 50% úväzok. V tomto roku získala Štipendium z plánu obnovy SR-NextGeneration EU (R2) Mgr. Nina Kunová, PhD., ktorá je súčasťou pracovnej skupiny „Biochémia a štruktúra proteínov“.

V roku 2024 sme na doktorandské štúdium prijali 6 študentiek a študentov, z čoho až 50% zo zahraničia (3 zahraničné študentky) a postupne tak zvyšujeme stupeň internacionalizácie nášho pracoviska.

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.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2024

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	15	1	134568	134568	-	-	5967	-
2. Projekty APVV	10	11	-	-	336937	259891	-	84977
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	0	-	-	29726	29726	-	83820
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	160389	160389	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	0	-	-	-	-	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2024

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2024	-	1	
2. Projekty výziev EŠIF podané r. 2024	Bratislava	2	
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2024

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi-záciu	Spolu	Pre organi-záciu		
1. Projekty Horizont 2020 a Horizont Európa	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	2	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	1	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	2	0	8000	8000	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	2667	2667	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	1	-	-	-	-	-	20119

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

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2024

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

	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 2025 sa Ústav molekulárnej biológie SAV, v. v. i. nachádza v štádiu hľadania vhodných partnerov k spolupráci zapojiť sa do aktuálnych výziev.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024

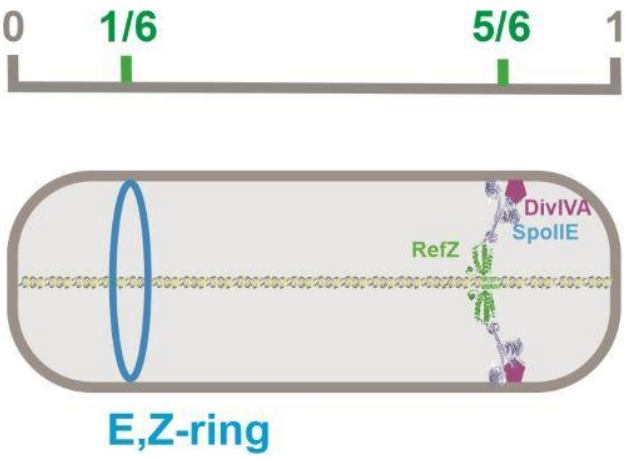
Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku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

2.3.1. Výsledky na báze základného výskumu

A. Charakterizácia mechanizmu nájdenia miesta asymetrického bunkového delenia počas sporulácie v Bacillus subtilis

Autori (za ÚMB SAV, v. v. i.): I. Barák, K. Muchová, E. Kalocsaiová, Z. Chromiková, S. Žarnovičanová

Schopnosť bakteriálnych spór vydržať bez živín milióny rokov a potom vyklíčiť predstavuje okrem medicínskych a biotechnologických možností aj riziká pre ľudské zdravie. Trvanlivosť spór Bacillus subtilis viedla k ich využitiu ako probiotík v potravinárskom priemysle a stali sa tiež základom na výrobu nových vakcín. Aj to je dôvod, prečo sa tento organizmus už desaťročia využíva na štúdium základných bunkových procesov ako je bunkové delenie a sporulácia. V našej práci sa nám podarilo pochopiť, ako môžu baktérie merať svoju dĺžku a nájsť správne miesto bunkového delenia počas sporulácie. Pochopenie tohto mechanizmu je základom pre odpovede na jednu z najfascinujúcejších otázok v bakteriálnej vývojovej biológii. Získané poznatky sú dôležité najmä z hľadiska základného výskumu. Navyše, poznatky o inhibícii funkcie proteínov, ktoré sa podieľajú na delení buniek a sporulácie, môžu pomôcť aj v príprave nových antibakteriálnych liečiv proti patogénnym multirezistentným baktériám.



Projekty:

1. VEGA 2/0001/21 – „Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis“.

2. APVV-22-0303 - „Molekulárny mechanizmus meracieho zariadenia na nájdenie správneho miesta bakteriálneho asymetrického bunkového delenia“.

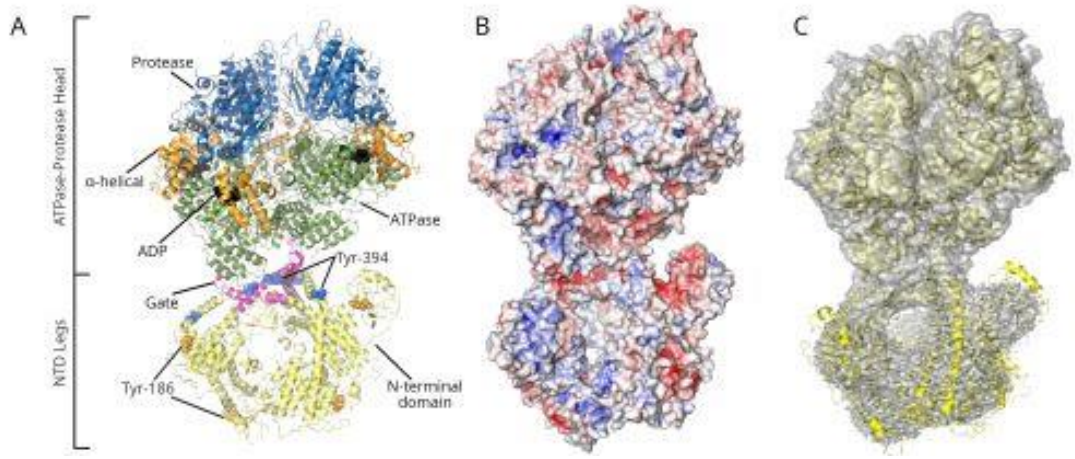
Výstupy:

1. MUCHOVÁ, Katarína - POSPÍŠIL, J. - KALOCSAIOVÁ, Evelína - CHROMÍKOVÁ, Zuzana - ŽARNOVIČANOVÁ, Silvia - ŠANDEROVÁ, H. - KRÁSNY, L. - BARÁK, Imrich**. Spatio-temporal control of asymmetric septum positioning during sporulation in Bacillus subtilis. In Journal of Biological Chemistry, 2024, vol. 300, iss. 6, art. no. 107339. (2023: 4 - IF, Q2 - JCR, 1.766 - SJR, Q1 - SJR). ISSN 0021-9258. Dostupné na: https://doi.org/10.1016/j.jbc.2024.107339

B. Polyfosfát a fosforylácia tyrozínu v N-terminálnej doméne ľudskej mitochondriálnej Lon proteázy narúša jej funkcie

Autori (za ÚMB SAV, v. v. i.): N. Kunová, G. Ondrovičová, J.A. Bauer, B. Stojkovičová, H. Havalová, L. Martináková, E. Kutejová, V. Pevala

Fosforylácia hrá kľúčovú úlohu v regulácii mnohých základných bunkových procesov. Hladiny fosforylácie sú zvýšené v mnohých rakovinových bunkách, kde môžu podporovať zmeny v mitochondriálnej homeostáze. Proteomické štúdie u rôznych typov rakoviny identifikovali 17 fosforylačných miest v ľudskej ATP-závislej proteáze Lon, ktorá degraduje nesprávne poskladané, nezostavené a oxidačne poškodené proteíny v mitochondriách. Väčšina z týchto miest bola nájdená v N-terminálnej (NTD) a ATPázovej doméne Lon proteázy, a je málo známe o účinkoch na jej funkciu. Kombináciou biochemickej analýzy a kryo-elektrónovej mikroskopie sme ukázali, že fosforylácie Tyr186 a Tyr394 v Lon NTD výrazne znižujú všetky aktivity Lon proteázy bez ovplyvnenia jej schopnosti viazať substráty alebo narušenia jej terciárnej štruktúry. Podstatné zníženie aktivít Lon sme tiež pozorovali v prítomnosti polyfosfátu, ktorého množstvo sa výrazne zvyšuje v rakovinových bunkách. Naša štúdia tak poskytuje pohľad na možnú jemnú reguláciu aktivít Lon pri ľudských chorobách, čo zdôrazňuje význam Lon pri udržiavaní proteostázy v mitochondriách.



Projekty:

1. VEGA 2/0069/23 – „Úloha mitochondriálnej proteázy Lon a fosforylácie proteínov mitochondriálneho nukleoidu v homeostáze a udržiavaní mtDNA“.

2. APVV-15-0375 – „Posttranslačné modifikácie v mitochondriách a ich úloha v patologických procesoch“.

3. APVV-19-0298 –„ Vzájomná interakcia proteáz, šaperónov a kináz v mitochondriách pri strese spôsobenom patologickými stavmi“.

4. ITMS: 305011X666 - Interreg V-A Slovakia-Austria, projekt StruBioMol

Výstupy:

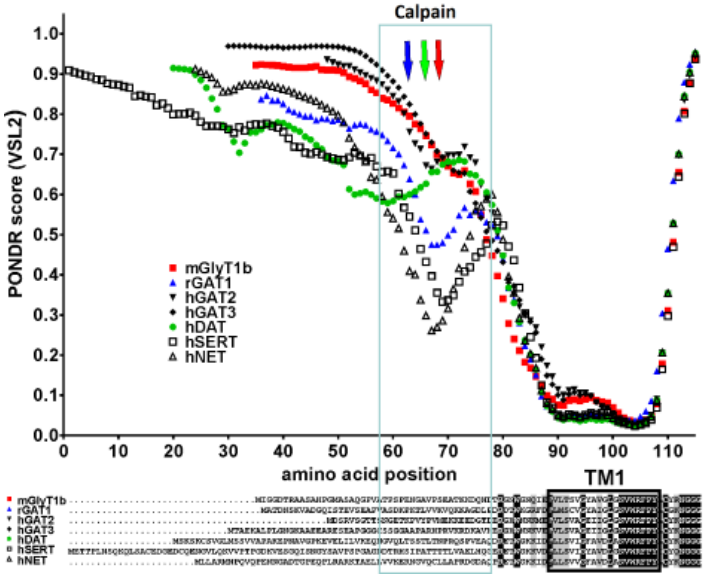
1. KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - KRAJČOVIČOVÁ, Veronika - PINKAS, Matyáš - STOJKOVIČOVÁ, Barbora - HAVALOVÁ, Henrieta - LUKÁČOVÁ, Veronika - KOHÚTOVÁ, Lenka - KOŠŤAN, Július - MARTINÁKOVÁ, Lucia - BARÁTH, Peter - NOVÁČEK, Jiří - ZOLL, Sebastian - KEREICHE, Sami - KUTEJOVÁ, Eva** - PEVALA, Vladimír**. Polyphosphate and tyrosine phosphorylation in the N-terminal domain of the human mitochondrial Lon protease disrupts its functions. In Scientific Reports, 2024, vol. 14, iss. 1, art. no. 9923. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-024-60030-9

C. Štrukturálna podobnosť sekvenčne nehomologických N-terminálnych úsekoch transportérov neurotransmiterov

Autori (za ÚMB SAV, v. v. i.): M. Baliová, F. Jurský

N-terminálne úseky SLC6 transportérov sú sekvenčne rozdielne a nie je jasné, či napriek svojej diverzite obsahujú skrytú podobnosť, zodpovenú za ich spoločnú funkciu. Pomocou porovnania aminokyselinových sekvencií s ich hydropatickým plotom, predikciou ich proteínovej neusporiadanosti a polohy kalpainových štiepnych miest sa nám podarilo potvrdiť, že spoločné štrukturálne črty v N-terminálnych úsekoch transportérov naozaj existujú. Tieto spločné štrukturálne črty sa odrážajú aj v nami nedávno popísanej spektrálnej metachromázii 465-595-350-750 nm počas Bradfordovej stanovenia. Naše posledné výsledky ukázali, že podobnú metachromáziu vykazuje tiež

agregácia viacerých druhov čiastočne denaturovaných GST proteínov. Ukazuje sa teda že farbička Coomassie G250 môže predstavovať senzor prítomnosti určitého typu proteínovej štruktúry v N-terminálnych úsekoch transportérov, ktorý sa tiež výnimočne nachádza v čiastočne, nie však plne denaturovaných GST proteínoch.



Projekty:

1. VEGA 2/0126/21- „Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmiterov“.

Výstupy:

1. BALIOVÁ, Martina - JURSKÝ, František**. Common structural features in some of the sequentially distant neurotransmitter transporters N-termini. In Journal of Structural Biology, 2024, vol. 216, iss, art. no. 108137. (2023: 3 - IF, Q2 - JCR, 1.771 - SJR, Q1 - SJR). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2024.108137

2.3.2. Výsledky aplikačného typu

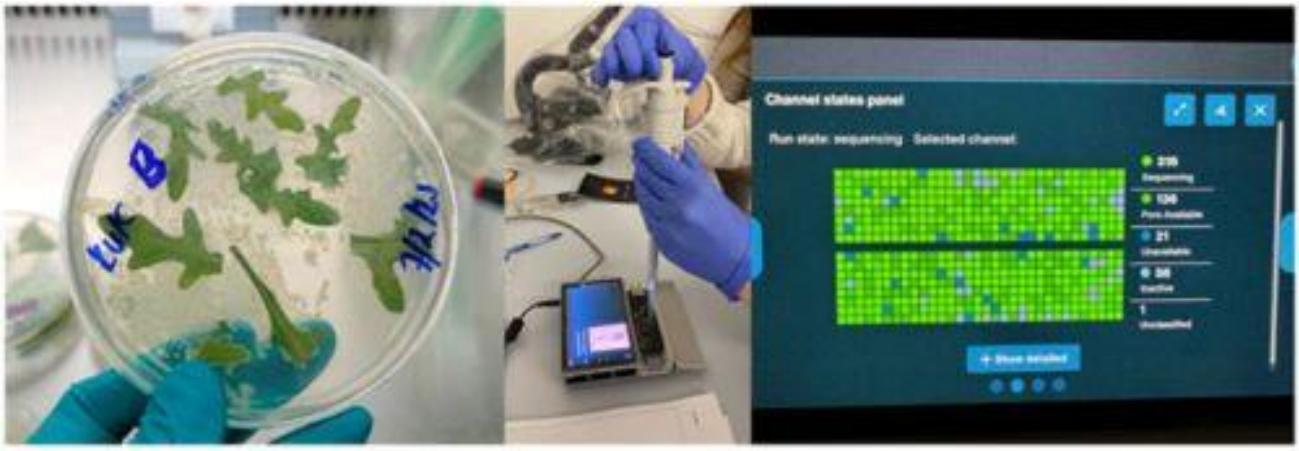
A. Hotové šaláty, bezpečné alebo nebezpečné? Toto je otázka

Autori (za ÚMB SAV, v. v. i.): N. Klištincová, , A. Puškárová, M. Bučková, D. Pangallo

Zelená dohoda ovplyvňuje aj náš stôl, v skutočnosti sú zelené potraviny považované za zdravšie a ekologickejšie ako živočíšne produkty. Pretože preferovanie vegetariánskej stravy je dobré pre naše zdravie, životné prostredie a je trendy. Je však balená zelenina skutočne taká zdravá? V nedávnom prehľade od našej skupiny sme sa zamerali na možné patogény, ale aj saprofytické mikroorganizmy, ktoré môžu ovplyvniť šaláty pripravené na konzumáciu. Ich kvalita závisí od podmienok a metód pestovania, umývania, balenia, skladovania, prepravy a distribúcie, ako aj od akýchkoľvek iných operácií, ktoré môžu podporiť alebo zvýhodniť rast mikroorganizmov. Niektoré mikroorganizmy môžu spôsobiť predčasné znehodnotenie produktu, zatiaľ čo iné sú nebezpečné pre ľudí. Úplné vylúčenie mikrobiologického rizika v šalátoch pripravených na konzumáciu je štatisticky nereálne, pretože ku kontaminácii môže dochádzať v celom procese výroby. Trh šalátov určených priamo na

konzumáciu, však môže ťažiť z nových udržateľných technológií, ktoré môžu podporiť rozhodnutia v oblasti riadenia rizík predtým, ako sa šaláty dostanú k spotrebiteľom.

Na tento účel naše laboratórium vyvíja diagnostické vysokovýkonné sekvenačné protokoly zamerané na detekciu potenciálnej mikrobioty (baktérie a plesne) schopnej ovplyvniť šaláty pripravené na konzumáciu, ale aj naše zdravie.



Projekty:

1. CNR-SAS-2022-08 Mobility (2023-2024; bilaterálny projekt Slovakia - Italy) – „Vysokovýkonné sekvenovanie mikrobiómu listovej zeleniny pripravenej priamo na konzumáciu: optimalizácia protokolov dlhého čítania a bioinformatických výpočtových procesov“.

Výstupy:

1. KLIŠTINCOVÁ, Nikola - PIN, Lorenzo - PUŠKÁROVÁ, Andrea - GIANNINO, Donato - BUČKOVÁ, Mária - LAMBREVA, Maya D. - MANFREDINI, Andrea - CANFORA, Luciano - PANGALLO, Domenico - PINZARI, Flavia. From farm to fork: Fungal and bacterial contaminants and their diagnostics in the production steps of ready-to-eat salads. In Trends in Food Science and Technology, 2024, vol. 150, art. no. 104573. (2023: 15.1 - IF, Q1 - JCR, 2.999 - SJR, Q1 - SJR). ISSN 0924-2244. Dostupné na: https://doi.org/10.1016/j.tifs.2024.104573

B. Nový systém syntetickej biológie pre produkciu modifikovaných biologicky aktívnych látok

Autori (za ÚMB SAV, v. v. i.): D. Csölleiová, R. Javorová, R. Nováková, Ľ. Fecková, F. Opaterný, B. Řežuchová, B. Ševčíková, J. Kormanec.

Vytvorili sme nový expresný systém syntetickej biológie umožňujúci jednoduchú refaktorizáciu biosyntetického génového klastra (BGC) ako monocistronické transkripčné jednotky. Systém je založený na sade plazmidov obsahujúcich silný kasOp* promótor, RBS a terminátory. Umožňuje klonovanie biosyntetických génov do transkripčnej jednotky kasOp*-gén-terminátor lemovaný niekoľkými zriedkavými miestami restriktáz, ktoré možno postupne kombinovať do umelého BGC v troch kompatibilných integračných vektoroch Streptomyces. Umožňujú simultánneu integráciu týchto BGC na troch rôznych miestach attB v chromozóme Streptomyces. Systém bol overený s biosyntetickými génmi z dvoch známych BGC pre aromatické polyketidy landomycín a mitramycín. Tento syntetický prístup môže umožniť biosyntézu nových biologicky aktívnych látok s účinnými terapeutickými vlastnosťami.

Projekty:

1. APVV-19-0009 – „Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie".

Výstupy:

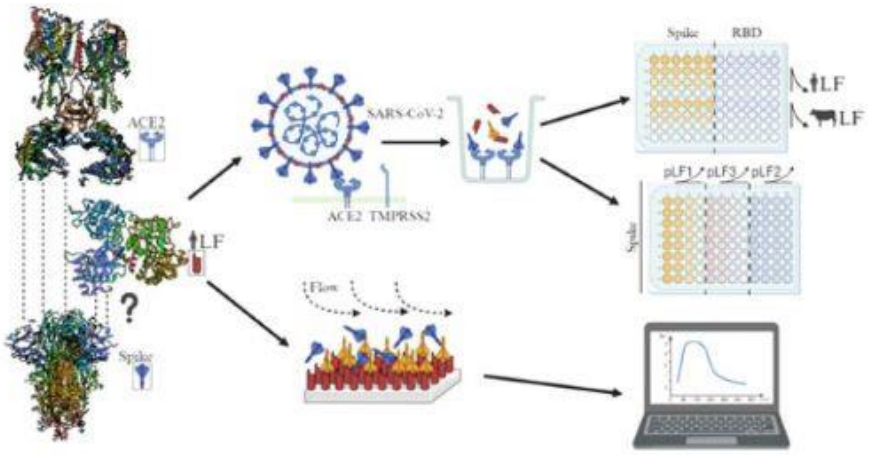
1. JAVOROVÁ, Ráchel - REŽUCHOVÁ, Bronislava - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - CSÖLLEIOVÁ, Dominika - KOPÁČOVÁ, Mária - PÄTOPRSTÝ, Vladimír - OPATERNÝ, Filip - ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján**. A new synthetic biology system for investigating the biosynthesis of antibiotics and other secondary metabolites in streptomycetes. In Journal of Biotechnology, 2024, vol. 392, pp. 128-138. (2023: 4.1 - IF, Q2 - JCR, 0.741 - SJR, Q2 - SJR). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2024.07.007

2. KORMANEC, Ján- NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra- MATULOVÁ, Mária - CSÖLLEIOVÁ, Dominika - OPATERNÝ, Filip - JAVOROVÁ Ráchel - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica: Striking features and complex regulation of polyketide antibiotic auricin from Streptomyces lavendulae subsp. lavendulae CCM 3239. Invited speaker. Conference handbook, The 20th Annual Congress of International Drug Discovery Science and Technology, Osaka, Japan, 20.5-24.5 2024, p. 141.

C. Laktoferín sa cez svoj N-koniec viaže na receptor viažúcu doménu proteínu Spike vírusu SARS-CoV-2

Autori (za ÚMB SAV, v. v. i.): P. Babulic, G. Ondrovičová, T. Moskalets, V. Leksa

Keďže COVID-19 stále predstavuje značnú hrozbu, je prospešné poskytnúť terapeutické doplnky proti nej. V tomto ohľade glykoproteín laktoferín (LF) a laktofericín (LFC), prírodný bioaktívny peptid, ktorý sa získa štiepením z N-konca LF, sú mimoriadne zaujímavé, pretože sa ukázalo, že oba redukujú infekcie SARS-CoV-2. V uplynulom roku sme pomocou biochemických a biofyzikálnych metód odhalili, že LF sa priamo viaže na S-proteín (Spike) vírusu SARS-CoV-2, ktorý zohráva kľúčovú úlohu pri väzbe na receptor ACE2 a infekcii hostiteľských buniek. Stanovili sme termodynamické a kinetické charakteristiky tvorby komplexu a zmapovali zúčastnené vzájomné väzbové miesta v tejto interakcii, menovite N-terminálnej oblasti LF a receptor viažúcej domény LF S-proteínu (RBD). Táto práca bola publikovaná - 10.3390/ph17081021. Tieto výsledky môžu nielen vysvetliť mnohé z pozorovaných ochranných účinkov LF a LFC pri infekcii SARS-CoV-2, ale môžu byť použité pri navrhovaní účinných, bezpečných a nákladovo efektívnych doplnkových nástrojov na báze mliečneho proteínu laktoferínu v manažmente COVID-19.



Projekty:

1. Plán obnovy EÚ 09I03-03-V02-00047 – „Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu“.

2. APVV APVV-20-0513 – „Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19“.

3. VEGA 2/0152/21 – „Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19“.

Výstupy:

1. BABULIC, Patrik - CEHLÁR, Ondrej - ONDROVIČOVÁ, Gabriela - MOSKALETS, Tetiana - ŠKRABANA, Rostislav** - LEKSA, Vladimír**. Lactoferrin Binds through Its N-Terminus to the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. In Pharmaceuticals, 2024, vol. 17, art. no. 1021. (2023: 4.3 - IF, Q1 - JCR, 0.845 - SJR, Q1 - SJR). ISSN 1424-8247. Dostupné na: https://doi.org/10.3390/ph17081021

2.3.3. Výsledky na báze medzinárodnej spolupráce

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2024/ doplnky z r. 2023
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**1 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**0 / 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)	**25 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**7 / 1**
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)	**10 / 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. 2023 (zdroj JCR) *Počet článkov / doplnky*	15 / 0	12 / 0	5 / 0	0 / 0	32 / 0
Podľa SJR z r. 2023 (zdroj Scimago) *Počet článkov / doplnky*	21 / 0	9 / 0	2 / 1	0 / 0	32 / 1

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2023/ doplnky z r. 2022**
Citácie vo WOS (1.1, 2.1)	1599 / 95
Citácie v SCOPUS (1.2, 2.2)	212 / 51
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)	1 / 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	34
Prednášky a vývesky na národných vedeckých podujatiach	15

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

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 2024

2.7.1. Vynálezy, na ktoré bol v roku 2024 udelený patent

a) na Slovensku

b) v zahraničí

Názov vynálezu: ANTIMICROBIAL PROTEIN, ANTIMICROBIAL RECOMBINANT PROTEIN WITH LYTIC PROPERTIES, EXPRESSION VECTOR, METHOD OF THEIR PREPARATION AND USE
Číslo patentu: EP4262843
Dátum udelenia: 2.7.2024
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 2024

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2024

b) udelené v roku 2024

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 2024 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
Bauerová Vladena	KEGA	2
	VEGA	1
Jamroškovič Ján	PostdokGrant	3
Majtán Juraj	VEGA	1
Pevala Vladimír	PostdokGrant	4
	VEGA	1
Renáta Nováková	PostdokGrant	2
Naďa Labajová	PostdokGrant	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

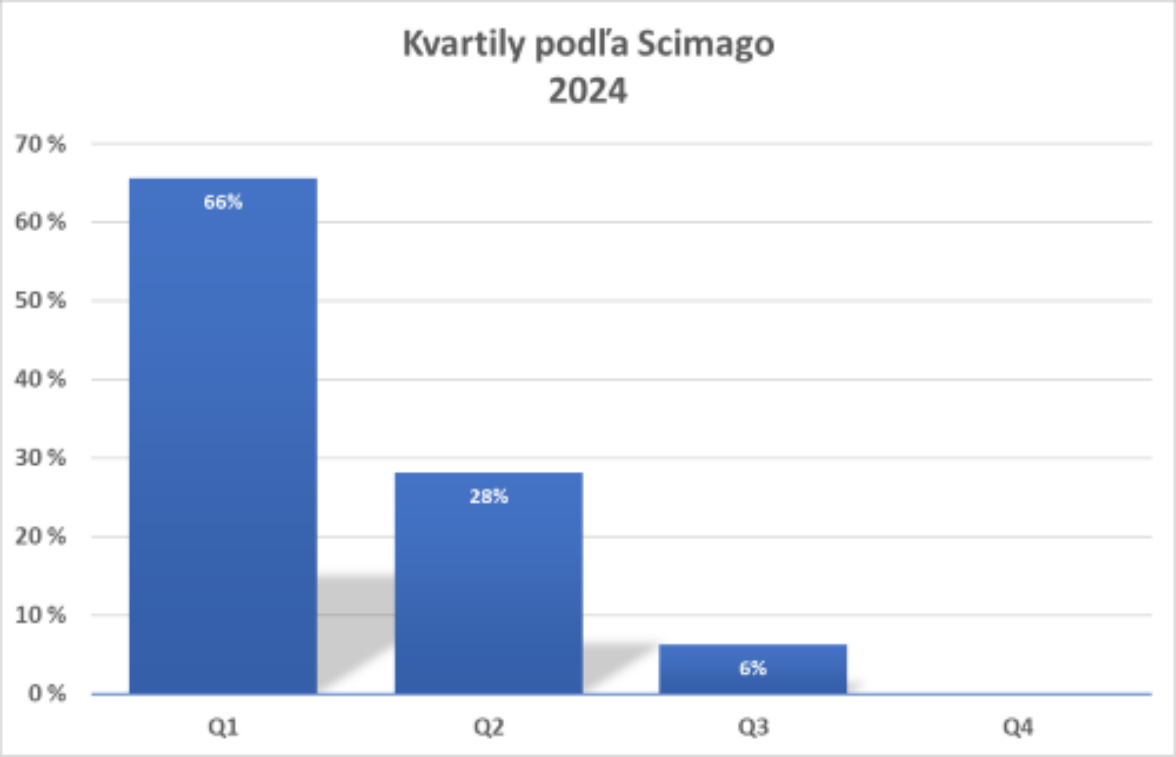
2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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	3	0	0	0	0
Bukovská Gabriela	0	0	4	0	0	0	0
Jamroškovič Ján	0	0	1	0	0	0	0
Janeček Štefan	0	0	16	0	0	0	0
Kľučár Ľuboš	0	0	3	0	0	0	0
Kormanec Ján	0	0	1	0	0	0	0
Leksa Vladimír	0	0	5	0	0	0	0
Majtán Juraj	0	1	31	0	0	0	0
Pevala Vladimír	0	0	1	0	0	0	0
Urbániková Ľubica	0	0	1	0	0	0	0
Zámocký Marcel	0	0	5	0	0	0	0
Spolu	**0**	**1**	**71**	**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 2024 vedeckí pracovníci ústavu publikovali celkovo 32 impaktovaných vedeckých publikácií. Zaradenie časopisov podľa kvartilov potvrdzuje vysokú kvalitu našich publikácií. V 1. a 2. kvartile Scimago je 94 % našich publikácií (66 % z nich spadá do 1. kvartilu a 28 % do 2. kvartilu). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác. Za rok 2023 (vykazované v roku 2024) sme dosiahli 1957 ohlasov (WOS a SCOPUS).



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 už niekoľko rokov od spustenia tohto unikátneho svetového zariadenia revolucionizuje možnosti pre štrukturálnu biológiu. 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 ako aj projektu týkajúceho sa časovo rozlíšitelnej nanokryštalografie.

Pracovná skupina Dr. Domenica Pangalla, DrSc., „Environmentálna a potravinová mikrobiológia“ sa v roku 2024 zapojila do medzinárodného projektu „Sustainable Archives and Greener Approaches“ financovaného v rámci programu „Creative Europe“. Projekt koordinovaný španielskym partnerom je zameraný na ekologickú konzerváciu archívnych dokumentov a naše pracovisko participuje na mikrobiologickej analýze, ktorá umožňuje identifikáciu mikroorganizmov znehodnocujúcich papier, ktoré môžu kontaminovať dokumenty, knihy a tiež okolité prostredie.

ÚMB SAV, v. v. i. bol v roku 2024 zapojený do riešenia dvoch COST 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 „Genomika a biotechnológie“. 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 3700 aktívnych návštevníkov za rok 2024.

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 2024 recenzovali 71 publikácií (WOS, Scopus). Ako experti sa zúčastňujú aj hodnotenia národných a medzinárodných projektov.

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. Spolupráca vo výskume medu a jeho aplikácií bude pokračovať aj v nasledujúcom období.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2024 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 2025 (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
Bauer Jacob	0	1	0
Bauerová Vladena	0	0	1
Spolu	0	1	1

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

Mgr. Vladena Bauerová, PhD.

Česká a Slovenská kryštalografická spoločnosť (funkcia: člen)
Česká společnost pro strukturní biologii (funkcia: člen)

Mgr. Gábor Beke, PhD.

International Society for Computational Biology (ISCB) (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

European Beekeeping Association (funkcia: člen vedeckej rady)
International Honey Commission (funkcia: člen)

RNDr. Ľubica Urbániková, CSc.

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

RNDr. Marcel Zámocký, DrSc.

RedoxiBase (funkcia: administrátor)

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
Majtán Juraj	HORIZON-EIC-2024-ACCELERATOR-02	3

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

Pracovná skupina „Biochémia a štruktúra proteínov“ pod vedením Ing. Evy Kutejovej, DrSc. a neskôr jej nástupcu RNDr. Vladimíra Pevalu, PhD. spolupracovala v roku 2024 s Dr. Jiřím Nováčkom, CF CryoEM CEITEC, Masarykova univerzita v Brne a Dr. Kereiche z Ústavu biológie a lekárskej genetiky, Prvá lekárska fakulta, Karlova univerzita v Prahe na štúdiu štruktúry modifikovaných foriem ľudskej LON proteázy. Výsledky sú súčasťou APVV projektu aj publikácie vo vedeckom časopise Scientific reports (2024). Skupina sa zapojila do riešenia projektu Plánu obnovy EÚ, kde získali jeden projekt R2, Úloha ľudskej mitochondriálnej LON proteázy v prejavoch syndrómu CODAS (09I03-03-V04-00580), kde je zodpovedný riešiteľ Mgr. Nina Kunová, PhD.

Pracovná skupina „Fylogenomickej ekológie“ pod vedením RNDr. Marcela Zámockého, DrSc. pokračuje v spolupráci s ústavom CSIC v Madride – zodpovedná osoba Dr. Romero Guzmán, nosnou témou sú hémové peroxygenázy. V rámci spolupráce prebieha schválený projekt (MVTS 2023), pod referenciou BILAT23032.

Pracovná skupina „Environmentálna a potravinová mikrobiológia“ pod vedením Dr. Domenica Pangalla, DrSc. sa zapojila do medzinárodného projektu „Udržateľné archívy a ekologickejšie prístupy“ so Španielskom v programe European Commitea (medzinárodného projektu „Sustainable Archives and Greener Approaches“ financovaného v rámci programu „Creative Europe“). 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“. Mgr. Jelena Pavlovic, PhD., mladá vedecká pracovníčka do 35 rokov z tejto skupiny, získala PostdokGrant „Odstraňovanie per- a polyfluóralkylových látok (PFAS): skúmanie potenciálnych stratégií

biodegradácie“.

Pracovná skupina „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. Prebieha spolupráca na analýze vzoriek medu s centrom pre včelárenie ADECAL TECHNOPOLE na Novej Kaledónii. Spolupráca vo výskume medu a jeho aplikácii bude pokračovať aj v nasledujúcom období. Skupina získala dva COST projekty: „BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY“ (zodpovedný riešiteľ Ing. Juraj Majtán, DrSc., MBA, FIFST) a „NETSKINMODELS (CA21108 - European Network for Skin Engineering and Modeling)“.

V pracovnej skupine „Mikrobiálna genetika“ pod vedením RNDr. Imricha Baráka, DrSc. pokračovala v spolupráci Mgr. Naďa Labajová v Brne na grante CIISB (Czech Infrastructure for Integrative Structural Biology) „Charakterizácia komplexu Clostridioides difficile DivIVA s membránou“. Spolupracovala s CEITEC Core Facility Laboratóriom nanobiotechnológií a Laboratóriom kryoelektrónovej mikroskopie a tomografie v Brne.

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 Svensson (Danish Technical University, Kgs. Lyngby, Denmark.

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)

Názov/účel kontraktového výskumu: Optimalizácia produkcie biologicky aktívneho proteínu
Zadávateľ výskumného kontraktu: zahraničná biotechnologická firma
Začiatok spolupráce: 2024
Ukončenie spolupráce: 2026
Finančný prínos pre organizáciu (€): 70000

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2024

Forma	Počet k 31.12.2024				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2024					
							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	5	9	1	4	3	7	0	5	0	0	0	0
Denná z iných zdrojov	0	1	0	1	0	0	0	0	0	0	0	0
Externá	1	1	0	0	0	1	0	0	0	0	0	0
Spolu	6	11	1	5	3	8	0	5	0	0	0	0
Z toho zahraničných	0	4	0	3	0	0	0	0	0	0	0	0
Súhrn	17		6		11		5		0		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 2024 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 2024 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. Dominika Csölleiová	interné štúdium hradené z prostriedkov SAV	9 / 2017	8 / 2024	1536 biológia	RNDr. Ján Kormanec DrSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Henrieta Havalová	interné štúdium hradené z prostriedkov SAV	9 / 2020	8 / 2024	1420 chémia	Ing. Gabriela Ondrovičová PhD., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Iveta Jahodová	interné štúdium hradené z prostriedkov SAV	9 / 2020	8 / 2024	1420 chémia	RNDr. František Jurský CSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Ráchel Javorová	interné štúdium hradené z prostriedkov SAV	9 / 2020	8 / 2024	1536 biológia	Mgr. Renáta Nováková CSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Kristina Pápayová	interné štúdium hradené z prostriedkov SAV	9 / 2020	8 / 2024	1536 biológia	RNDr. Gabriela Bukovská CSc., 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 2024 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 2024 (obhajoba leto 2024)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
5	4	1	0	0

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

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 a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	ITA/2, IND/1, RUS/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)
biológia	1536	Genetika	Prírodovedecká fakulta UK
biológia	1536	Mikrobiológia	Prírodovedecká fakulta UK
biológia	1536	Molekulárna biológia	Prírodovedecká fakulta UK
chémia	1420	Biochémia	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.

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. Dominika Csölleiová, PhD. (IIb)
RNDr. Gabriela Bukovská, CSc. (mikrobiológia)	Ing. Juraj Majtán, DrSc., MBA, FIFST (Slovenská zdravotnícka univerzita v Bratislave)	Mgr. Henrieta Havalová, PhD. (IIb)
prof. Ing. Štefan Janeček, DrSc. (molekulárna biológia)		Mgr. Dominika Csölleiová, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Ján Kormanec, DrSc. (biochémia)		Mgr. Henrieta Havalová, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Ján Kormanec, DrSc. (molekulárna biológia)		
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 2024

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	12	0	12	0
Celkový počet hodín v r. 2024	243	0	345	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**	16
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	30
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	10
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	14
5.	**Počet oponovaných dizertačných a habilitačných prác**	10
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	6
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**	5
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 2024 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 2024 sa u nás školilo v internej forme štúdia 14 doktorandov financovaných z prostriedkov SAV, v externej forme štúdia dvaja doktorandi. V priebehu 2024 doktorandské štúdium ukončili úspešnou obhajobou a získali titul PhD. Mgr. Dominika Csölleiová, Mgr. Ráchel Javorová, Mgr. Henrieta Havalová, Mgr. Iveta Jahodová a Mgr. Kristína Pápayová.

V roku 2024 naši vedeckí pracovníci vypísali 10 tém na doktorandské štúdium v štyroch študijných programoch Prírodovedeckej fakulty UK v Bratislave, a to v programoch Molekulárna biológia,

Mikrobiológia a Genetika v odbore Biológia a Biochémia v odbore Chémia

Následne v jeseni 2024 nastúpili na internú formu doktorandského štúdia šiesti noví doktorandi, Mgr. Kamila Cholvadtová v študijnom programe Molekulárna biológia, Mgr. Terézia Hromádková v študijnom programe Genetika, Mgr. Martin Labuda v študijnom programe Molekulárna biológia, MSc. Maria-Vittoria Cottini v študijnom programe biochémia, MSc. Sidra Ishrat v študijnom programe Genetika a MSc. Viktoriia Chirkova v študijnom programe Molekulárna biológia. Tri novoprijaté doktorandky pochádzajú zo zahraničia: MSc. M.-V. Cottini z Talianska, MSFc. S. Ishrat z Indie a MSc. V. Chirkova z Ruska. Štúdium doktorandky MSc. M.-V. Cottini je hradené z návratového projektového programu IMPULZ, nie z interných zdrojov SAV ako je to u ostatných interných doktorandov.

Naši doktorandi sa aktívne zapájajú do vedeckého a spoločenského života ÚMB SAV, v. v. i. Mnohí z nich viedli v roku 2024 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 2024 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, pričom projekt podaný Mgr. Bohušom Kubalom bol kvôli limitovaným možnostiam financovania ďalšieho DoktoGrantu ocenený certifikátom kvality.

Aby sa odborná verejnosť našej inštitúcie oboznámila s aktuálnymi vedeckými poznatkami, inovatívnymi metódami a novými prebiehajúcimi projektami, pripravujeme 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 vedenia 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 2024 realizovanej 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 2024 vypracovala na našej inštitúcii SVOČ pod vedením Mgr. Vladimíra Leksu, PhD., študentka Gymnázia Ivana Horvátha, Magdaléna Pokorná. Rovnako pod vedením Mgr. Vladimíra Leksu, PhD. absolvovali v roku 2024 na našej inštitúcii odbornú prax študentky Bilingválneho Gymnázia Milana Hodžu. Pod vedením Mgr. Vladimíra Pevalu, PhD., absolvovala odbornú prax na našej inštitúcii študentka Ostravskej Univerzity Marianna Kabátová. Rovnako pod vedením Mgr. Vladimíra Pevalu, PhD. u nás absolvoval výmenný pobyt študent z Mikrobiologického ústavu AV ČR, Jan Keil.

V roku 2024 prejavil záujem o spoluprácu s našou inštitúciou študent z Gymnázia Grösslingová v Bratislave za účelom odborného vedenia, pod vedením RNDr. Lucie Bocánovej, PhD. vypracoval projekt, s ktorým uspel na Biologickej olympiáde, Študentská vedecká konferencia FChPT STU a na Festivale vedy a techniky.

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 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

Názov projektu: Moderné aplikácie bakteriofágov v prevencii nozokomiálnych a alimentárnych infekcií

Agentúra: APVV
číslo projektu: APVV-23-0140
Spolupracujúce inštitúcie: Univerzita Komenského v Bratislave - Prírodovedecká fakulta; Národné poľnohospodárske a potravinárske centrum - Výskumný ústav potravinársky
Koordinátor projektu: prof. RNDr. Hana Drahovská, PhD., Univerzita Komenského v Bratislave
Začiatok spolupráce: 2024
Koniec spolupráce: 2027
Zhodnotenie:

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 univerzitou 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. 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: Přírodovědná fakulta ‚Masarykova Universita Brno, CEITEC Brno, Česká republika. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2022- trvá. Zhodnotenie: Grante CIISB (Czech Infrastructure for Integrative Structural Biology)- Charakterizácia komplexu Clostridioides difficile DivIVA s membránou. Spolupráca s CEITEC Core Facility Laboratóriom nanobiotechnológií a Laboratóriom kryoelektrónovej mikroskopie a tomografie v Brne.

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-viažúcich 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	4	tlač	8	TV	3
rozhlas	3	internet	3	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: Doktorandská búrka
Miesto konania: Areál SAV Patrónka, Bratislava
Dátum: 15.5.2024
Zhodnotenie účasti: Náš ústav sa zapojil do podujatia Doktorandská búrka, ktoré bolo určené pre záujemcov o doktorandské (PhD.) štúdium na SAV, ako aj pre mladých vedeckých pracovníkov a pracovníčky. Do podujatia sme sa zapojili prezentáciou s témami dizertačných prác, ktorá bola zameraná pre študentov druhého stupňa vysokých škôl, ktorí sa rozhodovali na ktorej inštitúcií budú pokračovať doktorandským štúdiom. Toto podujatie bolo pripravené a prezentované zástupcami jednotlivých oddelení ústavu a školiteľmi dizertačných prác.

Názov výstavy: Veda, ktorá sa skrýva za esenciálnymi olejmi!
Miesto konania: Bratislava
Dátum: 27.4.2024
Zhodnotenie účasti: Pracovná skupina environmentálnej a potravinovej mikrobiológie zorganizovala workshop „Veda, ktorá sa skrýva za esenciálnymi olejmi!“ Viac ako sto účastníkov si mohlo osvojiť niektoré laboratórne metódy a pripraviť tak esenciálne preparáty. Podujatie bolo spojené s prednáškami Mgr. A. Puškárovej, PhD., RNDr. M. Bučkovej, PhD. a Mgr. D. Galovej a stretlo sa s pozitívnym hodnotením účastníkov.

Názov výstavy: Týždeň vedy a techniky 2024
Miesto konania: Deň otvorených dverí ÚMB SAV, v. v. i. , Bratislava
Dátum: 13.11.2024
Zhodnotenie účasti: V rámci Týždňa vedy a techniky na Slovensku 2024, usporiadalo naše pracovisko Deň otvorených dverí, ktorého súčasťou boli dve prednášky - Mgr. M. Hučko, „AI a Biológia: Keď algoritmy Stretnú bunky!“, a Mgr. M. Bučeková, PhD., „Sladká veda: Objavovanie skrytých síl medu!" Podujatia sa zúčastnilo viac ako 110 návštevníkov z radov verejnosti, základných a stredných škôl. Po prednáškach nasledovala praktická prezentácia: „Pigmenty a liečivá“, ktorá návštevníkom priblížila užitočný mikrosvet baktérií a svet rastlín, ktorý je zaujímavý širokou škálou pigmentov a liečivých látok. Ako takéto látky objaviť mohli návštevníci uvidieť na

farebných pokusoch. Navštívili laboratóriá zamerané na biochémiu, štruktúru proteínov, apidológiu a apiterapiu. Najväčší úspech mala prehliadka automatizovaného kryštalizačného laboratória jediného svojho druhu na Slovensku, ktoré je vybavené vysokošpecializovanými robotmi. Podujatie sa stretlo s pozitívnym ohlasom študentov, učiteľov a verejnosti.

Názov výstavy: Víkend so SAV
Miesto konania: Hlavná ulica, Trnava
Dátum: 21.6.2024
Zhodnotenie účasti: Naše pracovisko sa zapojilo do popularizačného podujatia Víkend so SAV prezentáciou vo forme stánku s názvom "Esencia objavovania nových liečiv a pigmentov v prírode". Návštevníci podujatia sa mohli dozvedieť aké farebné pigmenty dokážu vytvárať baktérie a rastliny, ale aj o tom, že v mede, rastlinách, pôde, esenciálnych olejoch sú užitočné látky, ktoré pôsobia proti vírusom, plesniam a baktériám. Táto téma zahŕňala prácu väčšiny oddelení na našom ústave. Do prípravy a prezentácie podujatia sa zapojilo osem našich zamestnancov.

Názov výstavy: My sme SAV
Miesto konania: Hviezdoslavovo námestie, Bratislava
Dátum: 15.6.2024
Zhodnotenie účasti: Naše pracovisko sa zapojilo do popularizačného podujatia My sme SAV prezentáciou vo forme stánku s názvom "Esencia objavovania nových liečiv a pigmentov v prírode". Návštevníci podujatia sa mohli dozvedieť viac o antimikrobiálnych látkach v mede, rastlinách, pôde, esenciálnych olejoch, ktoré pôsobia proti vírusom, plesniam a baktériám. Táto téma zahŕňala prácu väčšiny oddelení na našom ústave. Do prípravy a prezentácie podujatia sa zapojilo trinásť našich zamestnancov a táto aktivita sa stretla s výrazne pozitívnym ohlasom.

Názov výstavy: 40 rokov jadrovej elektrárne Bohunice V2
Miesto konania: Jaslovské Bohunice
Dátum: 7.9.2024
Zhodnotenie účasti: Naše pracovisko sa zapojilo praktickou prezentáciou "Esencia objavovania nových liečiv a pigmentov v prírode" do programu osláv 40. výročia jadrovej elektrárne Bohunice V2. Návštevníci podujatia sa dozvedeli ako prebieha množstvo biologických dejov v prírode, pri ktorých sa uvoľňuje veľký počet zlúčenín a zabezpečuje sa tak kolobeh prvkov v prírode. Mnohé tieto látky mohli návštevníci objaviť a uvidieť pri prezentácií farebných pokusov, ktoré boli pripravené a prezentované piatimi našimi zamestnancami z oddelenia genomiky a biotechnológie a oddelenia mikrobiálnej genetiky. Podujatie sa stretlo s pozitívnym ohlasom zo strany návštevníkov aj usporiadateľov.

Názov výstavy: Deň plný energie na vodnej elektrárni Kostolná
Miesto konania: Kostolná
Dátum: 21.9.2024
Zhodnotenie účasti: Návštevníkom osláv sedemdesiateho výročia vodných elektrární Kostolná „Deň plný energie“ naše pracovisko odhalilo mikrosvet baktérií, rastlín a včiel. Pomocou farebných experimentov pre dospelých a deti priblížilo ako sa vo vede hľadajú a objavujú nové látky používané v medicíne, potravinárstve, textilnom priemysle či umení. Na podujatí sa zúčastnili štyria naši zamestnanci z oddelenia genomiky a biotechnológie a oddelenia mikrobiálnej genetiky. Podujatie sa stretlo s pozitívnym ohlasom zo strany návštevníkov aj usporiadateľov.

Názov výstavy: Veda, ktorá sa skrýva za esenciálnymi olejmi!
Miesto konania: Piešťany, Mestská knižnica
Dátum: 13.4.2024
Zhodnotenie účasti: Pracovná skupina environmentálnej a potravinovej mikrobiológie nášho ústavu

pripravila pre viac ako 100 účastníkov verejnosti v Piešťanoch workshop spojený s prednáškou „Veda, ktorá sa skrýva za esenciálnymi olejmi!“. Účastníci si pod vedením Mgr. A. Puškárovej, PhD., RNDr. M. Bučkovej, PhD. a Mgr. D. Galovej mohli osvojiť niektoré metódy prípravy esenciálnych preparátov. Toto podujatie sa stretlo s pozitívnym ohlasom účastníkov.

Názov výstavy: Európska Noc Vedy 2024
Miesto konania: Stará tržnica, Bratislava
Dátum: 27.9.2024
Zhodnotenie účasti: Naše pracovisko sa na festivale vedy Európska Noc Vedy 2024 prezentovalo so stánkom "Pigmenty a liečivá". Téma bola zameraná na mikrosvet baktérií a svet rastlín, ktorý je zaujímavý farebnými pigmentami a liečivými látkami, ktoré vyrábajú. Návštevníci sa dozvedeli ako sa objavujú nové liečivá, antibiotiká, pigmenty z pôdy a rastlín, aké prospešné mikroorganizmy sú v potravinách. Prezentácia bola obohatená množstvom pokusov pre malých aj veľkých návštevníkov. Do prípravy a prezentácie podujatia sa zapojilo 18 našich zamestnancov zo všetkých oddelení nášho ústavu a táto aktivita sa stretla s výrazne pozitívnym ohlasom.

Názov výstavy: Doba plastová
Miesto konania: ÚMB SAV v. v. i. , Bratislava
Dátum: 20.12.2024
Zhodnotenie účasti: Náš ústav sa podieľal príspevkom Mgr. A Puškárovej, PhD. a RNDr. M. Bučkovej, PhD. „Biodegradácia plastových materiálov“ na príprave brožúry „Doba plastová“, ktorá je uverejnená na stránke Otvorenej Akadémie SAVhttps://otvorenaakademia.sav.sk/vysvetlujeme/brozury/Web verzia:PDF ISBN 978-80-974295-8-4, HTML ISBN 978-80-974295-9-1Press verzia:ISBN 978-80-974295-7-7

Názov výstavy: Vedecká podpora pri vedení a riešení stredoškolských projektov I
Miesto konania: ÚMB SAV v. v. i. , Bratislava
Dátum: 1.1.2024
Zhodnotenie účasti: Náš ústav každoročne poskytuje vedeckú podporu pri vedení a riešení stredoškolských projektov. V roku 2024 to bola podpora projektov „Antibakteriálna a antibiofilmová aktivita šalvie lekárskej“ a „Antibakteriálny a antioxidačný potenciál vybraných rastlinných extraktov“ študenta gymnázia Grössllingová v Bratislave G. Onduša, pod vedením RNDr. L. Bocánovej, PhD. Projekty boli úspešne realizované a prezentované na podujatiach:Projekt: „Antibakteriálny a antioxidačný potenciál vybraných rastlinných extraktov“20.3.2024 - 2. miesto krajské kolo Biologickej olympiády kat. A postup na celoštátne kolo 25.- 27.4.2024 celoštátne kolo Biologickej olympiády kat.A - 7. miesto; Projekt: „Antibakteriálna a antibiofilmová aktivita šalvie lekárskej“11.10.2024 - Festival vedy a techniky - Aurélium, postup na celoštátne kolo11. – 12.11.2024 - Celoštátne kolo festivalu vedy a techniky 20.11.2024 - Školská vedecká konferencia (STU, Chémia a technológie pre život)

Názov výstavy: Letná škola mladých vedcov (All4science) 2024
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 15.7.2024
Zhodnotenie účasti: Oddelenie genomiky a biotechnológie nášho ústavu sa aj tento rok zapojilo do Letnej školy mladých vedcov (All4science) 2024 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 možnosť týždeň na našom ústave vyskúšať rôzne experimenty a vypočuť prednášky v rámci riešenej témy „Pigmenty a liečivá“, pod vedením RNDr. L. Bocánovej, PhD., Mgr. R. Novákovej, CSc., Mgr. D. Hubertovej a Mgr. V. Bauerovej, PhD. Záverom pobytu bolo vyhodnotenie a fotodokumentácia výsledkov prezentovaná posterovou prezentáciou „Pigmenty a liečivá“, ktorá bola spojená s diskusiou k získaným výsledkom na

spoločnej záverečnej akcii všetkých účastníkov Letnej školy mladých vedcov.

Názov výstavy: Malá projektová schéma 2024
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 1.5.2024
Zhodnotenie účasti: Náš ústav sa úspešne zapojil do výzvy na predkladanie žiadosti o podporu projektov v Malej projektovej schéme SAV 2024, na podporu popularizácie vedy a jej prezentáciu smerom k širokej verejnosti. Do tejto výzvy sme sa zapojili projektom Mgr. R. Novákovej, CSc. a kol.: "Formy farebného umenia v prírode – pigmenty a liečivá ako ich nepoznáme", a projektom Mgr. M. Bučekovej, PhD a Ing. J. Majtána, DrSc.: "Včielky vedcom, vedci ľuďom", ktorého cieľom bola edukácia a motivácia širokej verejnosti a študentov základných a stredných škôl prostredníctvom zážitkového a experimentálneho učenia sa. Projekty sa zameriavali na hľadanie a objavovanie nových látok používaných v potravinárstve, medicíne, textilnom priemysle alebo umení (pigmenty a liečivá), na názornú demonštráciu anatómie a fyziológie včely pri produkcií včelích produktov. Získanú dotáciu na projekty, sme použili na výrobu a zakúpenie pomôcok, ktoré boli celý rok využívané na vedecko-popularizačných podujatiach pre školy a verejnosť

Názov výstavy: Vedecká podpora pri vedení a riešení stredoškolských projektov II
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 1.1.2024
Zhodnotenie účasti: Vedecká podpora pri vedení a riešení stredoškolského projektu v roku 2024 bola poskytnutá na našom ústave aj ďalšiemu úspešnému projektu „Potenciálne obväzové materiály z nanovlákenných membrán s extraktami z liečivých rastlín", študentky strednej školy CENADA v Bratislave S. Ercsényiovej pod vedením RNDr. M. Bučkovej, PhD. Projekt bol víťazne prezentovaný 12.11.2024 v súťaži AMAVET 2024, ocenený aj cenou dekana PriF UK a Slovensko bude reprezentovať na súťaži mladých vedcov na EUROPEAN UNION CONFEST FOR YOUNG SCIENCIST (EUCYS) 2025 v Rige.

Názov výstavy: „Vedecký ostrov" na letnom tábore „Ostrov pokladov"
Miesto konania: Záhorská Bystrica
Dátum: 29.7.2024
Zhodnotenie účasti: Mgr. A. Puškárová, PhD. a RNDr. M. Bučková, PhD z pracovnej skupiny environmentálnej a potravinovej mikrobiológie pripravili pre viac ako 60 detí vo veku od 4 - 12 rokov program s názvom „Vedecký ostrov" v rámci letného tábora „Ostrov pokladov" v Záhorskej Bystrici. Deti si vyskúšali byť malými vedcami, objavili svoje zručnosti s pipetovaním a vyrobili si svoj vlastný prírodný repelent. Tento program sa stretol zo strany detí aj organizátorov s pozitívnym ohlasom.

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
Bauerová Vladena	0	0	2
Spolu	0	0	2

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 - 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: člen Executive Editorial Board)

RNDr. Ján Kormanec, DrSc.

Frontiers in Microbiology (funkcia: člen edičnej rady)
International Journal of Molecular Sciences (funkcia: member of Editorial board)

Ing. Juraj Majtán, DrSc., MBA, FIFST

Asian Pacific Journal of Tropical Biomedicine (funkcia: člen edičnej rady)
Heliyon (funkcia: člen edičnej rady)
Molecules (funkcia: člen edičnej rady)
New Zealand Journal of Agricultural Research (funkcia: Associate Editor)
Scientific Reports (funkcia: člen edičnej rady)
Včelár (funkcia: člen redakčnej rady)

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: člen)

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

Od roku 2023 na Ústave molekulárnej biológie SAV, v. v. i. existujú sociálne siete (Facebook, Instagram, Twitter, LinkedIn, YouTube), ktoré slúžia na aktívnu komunikáciu s verejnosťou.

ÚMB SAV, v. v. i. sa v rámci popularizácie vedy a výskumu, zapojil a podal žiadosť do výzvy Ministerstva financií Slovenskej republiky (na základe § 1 Výnosu Ministerstva financií Slovenskej republiky z 9. decembra 2005 č. 26825/2005 - 441 o poskytovaní dotácií v pôsobnosti Ministerstva financií Slovenskej republiky v znení opatrenia z 19. januára 2022 č. MF/004274/2022-119 a opatrenia z 26. septembra 2023 č. MF/010575/2023-119 - vyhlasuje výzvu na predkladanie žiadostí o poskytnutie dotácie na všeobecne prospešné služby na rok 2024) o získanie dotácie pre projekt s názvom: Veda a výskum je budúcnosť SR: „Objavuj, Zaži a Inšpiruj“! Inštitúcia žiadala o poskytnutie finančných prostriedkov v celkovej sume 15685,5 Eur na bežné a kapitálové výdavky. Uvedený projekt bol veľmi pozitívne hodnotený, ale vzhľadom na nedostatok finančných prostriedkov bol projekt Ministerstvom financií Slovenskej republiky zaradený do zoznamu rezervných projektov na poskytnutie finančných prostriedkov.

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
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

V uvedenom roku sme neriešili žiadne problémy.

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)

Ing. Juraj Majtán, DrSc., MBA, FIFST

- Komisia pre hodnotenie grantov pre postdoktorandov SAV (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 (podpredseda)

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 SAV, 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 organizácie 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 princípy 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	15	9	6	1	0	1
2. Projekty APVV	10	6	4	11	9	2
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	3	2	0	0	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.)	3	1	2	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	2	1	1
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	2	1	1	0	0	0
7. Bilaterálne projekty ostatné	0	0	0	0	0	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 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 pružná 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 2024 dohodnutá rovnako ako v predchádzajúcom roku a to vo výške 1,05% zo súhrnu hrubých platov zúčtovaných zamestnancom na výplatu za kalendárny rok. 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 bola v budove B rekonštrukcia podláh na schodisku, chodbách a v technických miestnostiach.
Menšími opravami sa zlepšila infraštruktúra laboratórií a kancelárií, zmodernizovala sa telefónna ústredňa vďaka získaniu dodatočných financií, čím došlo k zvýšeniu kvality vnútorného prostredia v obidvoch budovách.

V tomto roku boli podané projekty na získanie peňazí na zateplenie a úsporu energie budovy A a B. V budove B sa jedná o zvýšenie energetickej úspory o 2 stupne z C na A1 a realizáciu debarierizačných opatrení vo verejnej budove SAV v rámci Programu Slovensko - SK - EFRR/KF/FST/ESF+ NFP401201FIX3, 15. 4. 2024. Zmluva na uvedený projekt bola podpísaná a zverejnená v Centrálnom registri zmlúv pričom schválená výška NFP je 591 604,93 €.

V budove A ide o zvýšenie energetickej úspory o 2 stupne z B na A0 a realizáciu debarierizačných opatrení prioritne s využitím zariadení využívajúcich obnoviteľné zdroje energii, vrátane zariadení, ktoré sú súčasťou systému zásobovania energiou verejnej budovy SAV-OZE, Program Slovensko - SK - EFRR/KF/FST/ESF+, Kód žiadosti: NFP401201B493. Projekt bol schválený 5. 12. 2024, Schválená výška NFP je 1 212 862,72 €. V projekte je naplánovaná oprava a zateplenie strechy, výmena bleskozvodu, rozvodov kúrenia a vyregulovanie systému, výmena výťahu, vylepšenie kvality vnútorného prostredia, inštalácia fotovoltaickej elektrárne pre zásobovanie tepelného čerpadla pre kúrenie a chladenie cez novú vzduchotechniku pre celú budovu a nájazdová rampa a úprava WC pre imobilných.
Projekty sú dostupné na stránke:
(https://portal.itms21.sk/ziadosti/?vyzva=PSK-SIEA-002-2023-DV-EFRR&neschvalena=0&kod=&zaciatokRealizacieProjektu=&koniecRealizacieProjektu=&ziadatel=%C3%9Astav+molekul%C3%A1rnej+biol%C3%B3gie+Slovenskej+akad%C3%A9mie+vied%2C+verejn%C3%A1+v%C3%BDskumn%C3%A1+in%C5%A1tit%C3%BAcia&minVyskaNfp=&maxVyskaNfp=&partner=&schvalena=1&page=1)

K dobrej a priateľskej atmosfére prispievajú spoločenské akcie organizované na našom pracovisku. V tomto roku sa konal vianočný večierka spoločné kávové prestávky, k čomu prispel ústav obnovením kuchynky a kávového kútika a novými stoličkami.

Uveďte stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Uveďte stručné, základné informácie k problematike.

Správna rada Ústavu molekulárnej biológie SAV, v .v. i., pracovala v zložení: predsedníčka Ing. Eva Kutejová, DrSc., podpredsedníčka RNDr. Gabriela Bukovská, CSc., členovia RNDr. Vladimír Pevala, PhD., Ing. Daniela Krajčíková, CSc. a RNDr. Mária Bučková, PhD. Od 1. 12. 2024 nastúpil do funkcie nový riaditeľ RNDr. Imrich Barák, DrSc., ktorý sa stal zároveň novým predsedom Správnej rady Ústavu molekulárnej biológie SAV, v .v. i.

Správna rada (SR) sa v priebehu roka 2024 zišla 21-krát, z toho 16-krát prezenčne a 5 krát hlasovala formou per rollam. Prezenčne a hlasovaním per rollam členovia SR riešili a schvaľovali hlavne úpravy rozpočtu vyplývajúce z rozpisu prostriedkov Zmluvy o poskytnutí prostriedkov IFP výskumu a vývoja na rok 2024 z SAV a schválených Dodatkov č. 1 až č. 7 k Zmluve, prerokovali Daňové priznanie organizácie za rok 2023, Účtovnú závierku za rok 2023, žiadosti o presun finančných prostriedkov v rámci jednotlivých kategórii rozpočtu, prerokovali materiál: výkonnostné zmluvy – prerozdelenie na roky 2024-26, schválili poplatky pre udelený Európsky patent č. EP 4262843 (RNDr. Gabriela Bukovská, CSc.), prerokovali Výročnú správu o činnosti a hospodárení organizácie za rok 2023, členovia SR sa tiež vyjadrili k zneniu zmlúv o poskytnutí prostriedkov z plánu obnovy pre projekt Mgr. Niny Kunovej, PhD. (R2) a RNDr. Imricha Baráka, DrSc. (kapitálový booster). Správna rada pripravila aktualizovaný vnútorný predpis: Pravidlá hodnotenia výskumných pracovníkov ÚMB SAV, v. v. i., a Dodatok č. 1 k Zakladacej listine ÚMB SAV, v. v. i.

Jednou z priorít bolo aj pokračovanie v obnove a rekonštrukcii budov organizácie. Na viacerých zasadnutiach sa členovia SR zaoberali zapojením sa do „Výzvy na podporu energetickej efektívnosti a využívania OZE vo verejných budovách“, kód výzvy: PSK-SIEA-002-2023-DV-EFRR. Na základe podanej žiadosti získal ÚMB SAV, v. v. i., nenávratný finančný príspevok zo Slovenskej inovačnej a energetickej agentúry (SIEA), názov projektu: Zvýšenie energetickej úspory o 2 stupne z C na A1 a realizácia debarierizačných opatrení vo verejnej budove SAV, kód projektu: 401201FIX3, na komplexnú rekonštrukciu budovy „B“. Zmluva bola podpísaná v novembri a zverejnená v centrálnom registri zmlúv v decembri. V októbri bola zaslaná žiadosť na P SAV (zakladateľovi) o poskytnutie príspevku z centrálnych zdrojov na opravu podláh, chodieb a schodiska v budove „B“ ÚMB SAV, v. v. i., ktorá bola schválená a realizovaná v novembri-decembri. V auguste organizácia podala ďalší projekt na SIEA: Obnova a zvýšenie energetickej úspory budovy dostavby Ústavu molekulárnej biológie, v. v. i., projekt reg. č. PSK-SIEA-002-2023-EFRR/A005, kód žiadosti: NFP401201A005 pre zvýšenie energetickej úspory pre budovu „A“, ktorý bol dňa 5.12.2024 v agentúre SIEA schválený.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Uveďte stručné, základné informácie k problematike.

Vedecká rada Ústavu molekulárnej biológie SAV, v .v. i., pracovala v roku 2024 v zložení: Mgr. Ľuboš Kľučár, PhD. (predseda); traja interní členovia – prof. Ing. Štefan Janeček, DrSc., RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., MBA, FIFST; a traja externí členovia – Ing. Zuzana Ciesarová, CSc., prof. RNDr. Hana Drahovská, PhD. a prof. RNDr. Ľubomír Tomáška, DrSc.

V roku 2024 zasadala vedecká rada 13-krát prezenčne, organizovala šesť per-rollam hlasovaní, dve zasadnutia akademickej obce, jedenkrát online stretnutie s medzinárodným poradným orgánom ÚMB SAV, v. v. i. Medzi hlavné témy, ktorými sa VR zaoberala na svojich stretnutiach patrili: personálne otázky (vyjadrovanie sa k návrhom na predlžovanie pracovných zmlúv vedeckých a odborných

zamestnancov), hodnotenie vedeckej činnosti pracovných skupín a jednotlivcov, príprava a schvaľovanie záverečnej a výročnej správy organizácie, vypracovanie akčného plánu, príprava výkonnostnej zmluvy, príprava konceptov materiálov pre hodnotenie VER, pohovory s uchádzačmi o doktorandské štúdium, schvaľovanie návrhov na motivačné štipendiá a žiadostí o podporný fond Štefana Schwarza, spolupráca na výberovom konaní na obsadení miesta riaditeľa organizácie, návrhy kandidátov na predsedu SAV, schvaľovanie návrhov na udeľovanie významných ocenení a vyjadrovanie sa k organizačným zmenám ÚMB SAV, v. v. i.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Uveďte stručné, základné informácie k problematike.

Dozorná rada Ústavu molekulárnej biológie SAV, v .v. i., (DR ÚMB SAV, v. v. i.) pracovala v zložení: predsedníčka prof. RNDr. Ľubica Lacinová, DrSc. a dvaja členovia prof. RNDr. Anton Horváth, CSc. a Ing. Veronika Púčiková, ktorú vymenoval Predseda SAV prof. RNDr. Pavol Šajgalík, DrSc. s účinnosťou od 09.1.2024.

Dozorná rada sa v priebehu roka 2024 stretla dvakrát prezenčne a štyrikrát hlasovala per rollam. Dňa 15.2.2024 bol členom Dozornej rady odoslaný na prerokovanie per rollam materiál:
Žiadosť o súhlas s návrhom dodatku č.1 k zakladacej listine Ústavu molekulárnej biológie SAV, v. v. i.. DR ÚMB SAV, v. v. i súhlasila s predloženým návrhom Ústavu molekulárnej biológie SAV, v. v. i.
Dňa 5.4.2024 bolo zasadnutie dozornej rady ohľadom schválenia účtovnej závierky ÚMB SAV, v. v. i.
Prerokovanie prebehlo osobne , aj za účasti hostí: Ing. Eva Kutejová, DrSc a Mgr. Pavol Pataky. . DR ÚMB SAV, v. v. i. schválila účtovnú závierku ÚMB SAV, v. v. i. za rok 2023 (podľa § 19, bod 7, c zákona o v. v. i.).
Dňa 30.4.2024 bol členom Dozornej rady odoslaný na prerokovanie per rollam materiál:
Žiadosť o súhlas s návrhom dodatku č.1 k zakladacej listine a žiadosť o súhlas s návrhom dokumentu „ Pravidlá hodnotenia výskumných pracovníkov“ Ústavu molekulárnej biológie SAV, v. v. i. . DR súhlasila s predloženými návrhmi Ústavu molekulárnej biológie SAV, v. v. i.
Dňa 22.7.2024 bol členom Dozornej rady odoslaný na prerokovanie per rollam materiál:
Žiadosť o schválenie podania projektu „Obnova a zvýšenie energetickej úspory budovy dostavby Ústavu molekulárnej biológie SAV, v. v. i.“ a
a Žiadosť o schválenie financovania projektu „Obnova a zvýšenie energetickej úspory budovy dostavby Ústavu molekulárnej biológie SAV, v. v. i.“. DR ÚMB SAV, v. v. i . súhlasila s predloženými návrhmi Ústavu molekulárnej biológie SAV, v. v. i.
Dňa 22.11.2024 bolo zasadnutie dozornej rady, ktoré malo nasledovný program:
1. Schválenie programu, 2. Informácia o aktuálnom stave organizácie a plánoch organizácie (projektový a personálny manažment, starostlivosť o majetok), 3. Informácia o hospodárení organizácie v danom roku a dlhodobých plánoch, 4. Správa o činnosti DR v roku 2024, 5. Hodnotenie činnosti riaditeľa v. v. i., 6. Rôzne. Prerokovanie prebehlo osobne 22.11.2024 aj za účasti hostí: Ing. Eva Kutejová, DrSc a Mgr. Pavol Pataky, Ing. Daniela Krajčíková. CSc. DR ÚMB SAV, v. v. i. na stretnutí prerokovala všetky body programu a nemá výhrady k aktuálnemu stavu organizácie.
Dňa 08.12.2024 bol členom Dozornej rady odoslaný na prerokovanie per rollam materiál:
Žiadosť o udelenie súhlasu s nadobudnutím majetku Ústavom molekulárnej biológie SAV, v. v. i., DR ÚMB SAV, v. v. i., súhlasila s nadobudnutím majetku Ústavom molekulárnej biológie SAV, v. v. i.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Uveďte stručné, základné informácie k problematike.

V novembri 2023 bolo správnou radou schválené vytvorenie dvoch nových pracovných skupín na ÚMB SAV, v. v. i., ktoré vznikli v roku 2024:

- Pracovná skupina Proteínovej kryštalografie a molekulovej dynamiky (vedúci pracovnej skupiny: Dr. Jacob Bauer), ktorá je súčasťou Oddelenia „Biochémia a štruktúra proteínov".
- Pracovná skupina Syntetickej mikrobiológie (vedúci pracovnej skupiny: Mgr. Ján Jamroškovič, PhD.), ktorá je súčasťou Oddelenia „Mikrobiálna genetika".

Od 1.12.2024 sa stal novým riaditeľom ÚMB SAV, v. v. i., RNDr. Imrich Barák, CSc. a zástupcom riaditeľa Ing. Juraj Majtán, DrSc., MBA, FIFST .Vzhľadom na Štatút ÚMB SAV, v. v. i., sa Ing. Juraj Majtán, DrSc., MBA, FIFST vzdal členstva vo vedeckej rade ústavu ku dňu 30.11.2024.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Uveďte stručné, základné informácie k problematike.

Správna rada Ústavu molekulárnej biológie SAV, v .v. i., pripravila a prerokovala aktualizovaný vnútorný predpis: Pravidlá hodnotenia výskumných pracovníkov ÚMB SAV, v. v. i., ktorý bol po schválení Vedeckou radou Ústavu molekulárnej biológie SAV, v .v. i., (dňa 17.5.2024) a Dozornou radou Ústavu molekulárnej biológie SAV, v .v. i., (dňa 6.5.2024) schválený Správnou radou Ústavu molekulárnej biológie SAV, v .v. i., (13.6.2024). Aktualizované pravidlá hodnotenia výskumných pracovníkov nadobudli účinnosť dňa 21. 6. 2024.

Správna rada Ústavu molekulárnej biológie SAV, v .v. i., pripravila a prerokovala Dodatok č. 1 k Zakladacej listine ÚMB SAV, v. v. i., kde sa aktualizoval číselník odborov vedy a techniky v súlade so Smernicou č. 55/2022 o sústave odborov vedy a techniky. Dokument bol po schválení Vedeckou radou Ústavu molekulárnej biológie SAV, v .v. i., (dňa 17.5.2024) a Dozornou radou Ústavu molekulárnej biológie SAV, v .v. i., (dňa 6.5.2024) schválený Správnou radou Ústavu molekulárnej biológie SAV, v .v. i., (13.6.2024). Dodatok č. 1 k Zakladacej listine ÚMB SAV, v. v. i. bol zaslaný na schválenie na P SAV. Dodatok č. 1 bol schválený na zasadnutí P SAV 10.10.2024 a zverejnený.

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	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		0
z toho zahraničné periodiká		0
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)		0
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0

Počet vypracovaných rešerší	0

12.3. Používatelia

Tabuľka 12c Používatelia

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

12.4. Iné údaje

Tabuľka 12d Iné údaje

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

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

Organizácia je založená 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 ďalej rozširovať 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

Akčný plán organizácie je zameraný na zvyšovanie kvality výstupov výskumu, podporu doktorandského štúdia, kariérny rast postdoktorandov a výskumníkov, získavanie kvalitných domácich a zahraničných projektov, efektívny manažment ústavu, podporu prenosu výsledkov z výskumu do praxe, získavanie externých finančných prostriedkov pre dobudovanie infraštruktúry a propagáciu ústavu doma a v zahraničí.

1. Medzinárodná spolupráca

Jedným z výhodných a jednoduchých spôsobov zintenzívnenia medzinárodnej spolupráce je väčšia aktivita v projektoch COST, 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. Významné zviditeľnenie predstavuje aj organizácia stretnutí na výmenných pobytoch COST v Bratislave alebo iných atraktívnych lokalitách na Slovensku. Participácia na viacerých COST programoch otvára možnosti organizácie spolupracovať na podávaní vedeckých európskych projektov Horizont. Je potrebné pokračovať v úsilí o zapojenie sa do európskych infraštrukturálnych projektov ESFRI v oblastiach ktoré sú nám blízke (INSTRUCT, ELIXIR a iné). Vedúci pracovných skupín by mali zvážiť 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. Posilnenie medzinárodnej spolupráce predstavuje výrazný impulz aj pre zlepšenia vo všetkých nasledujúcich oblastiach. Organizácia v roku 2024 participovala na dvoch COST projektoch a podarilo sa jej zapojiť sa do jedného financovaného EU projektu v rámci programu Creative Europe.

2. Publikačný profil

Je potrebné zvýšiť počet vedeckých publikácií organizácie, avšak podľa možností zo zachovaním ich čo najvyššej kvality. Zvýšenie počtu vedeckých výstupov je možné dosiahnuť rozšírením alebo zintenzívnením spolupráce ako na národnej tak aj na medzinárodnej úrovni, čo umožňuje zapojiť sa do väčšieho počtu projektov a tým sa spoluatorsky podieľať na väčšom počte publikácií. Vedúcim pracovných skupín, ako expertom vo svojich vedných odboroch, sa odporúča publikovať aj prehľadové články, ktoré majú potenciál priniesť vyšší počet citácií. Dôležitým aspektom je aj atraktívnosť a aktuálnosť riešených vedeckých projektov a ich publikačných výstupov, čo zvyšuje viditeľnosť organizácie a zvyšuje citovanosť publikačných výstupov. V neposlednom rade, je potrebné reagovať na vysoko aktuálne vedecké témy (napr. výskum ochorenia Covid-19) a časť svojho výskumu orientovať aj na tieto nové témy.

3. Doktorandi

Väčšie zapojenie sa do výmenných programov ERASMUS môže organizáciu zviditeľniť aj medzi mladou vedeckou komunitou a pritiahnuť nových zahraničných kandidátov na doktorandské štúdium. Pedagogické aktivity na univerzitách zviditeľňujú organizáciu medzi prichádzajúcou vedeckou generáciou a prinášajú mnohé ďalšie benefity. Finančné krytie našich doktorandov nie je až také nízke aby predstavovalo prekážku internacionalizácie. Organizácia má limitované prostriedky na prijímanie nových doktorandov (v súčasnosti štyria ročne), avšak je potrebné uchádzať sa aj o ďalšie formy financovania, akými sú buď rôzne národné schémy (napr. Plán obnovy), alebo zo zahraničných napríklad zapojenie sa do schémy MSCA (Marie Skłodowska-Curie Actions) Doctoral Networks. Je potrebné rozšíriť spoluprácu v oblasti doktorandského štúdia aj s ďalšími fakultami slovenskými univerzít, ako napr. s Fakultou chemickej a potravinárskej technológie STU a Fakultou prírodných vied UCM v Trnave. Týmto spôsobom je možné získať vyšší počet kvalitných uchádzačov pre doktorandské štúdium na ÚMB SAV, v. v. i. V roku 2024 mala organizácia 17 doktorandov, z toho 4 zahraničných.

4. Aktivity zamerané na verejnosť

Hlavným zameraním organizácie je základný výskum, ktorý prináša možný viditeľný vplyv pre potreby spoločnosti až po dlhšom časovom období. Súčasný spoločenský tlak je do značnej miery cielený na bezprostrednú aplikáciu poznatkov, preto je potrebné nájsť vhodnú rovnováhu medzi týmito dvoma prístupmi. Je zrejmé, že časť nášho vedeckého základného výskumu je atraktívna aj pre súkromnú a decíznu sféru, preto sa odporúča vedeckým pracovníkom popularizovať svoje vedecké výstupy odbornej a laickej verejnosti cez masmediálne kanály a zvyšovať tak povedomie verejnosti o našej vedeckej činnosti. Z tohto dôvodu predstavujú popularizačné aktivity výrazný nástroj na zviditeľnenie výsledkov našej práce na verejnosti a je potrebné im aj naďalej venovať veľkú pozornosť. Vzhľadom na pripravovanú formu finančného odmeňovania na základe zmlúv so štátom predstavujú aj tieto aktivity činnosti, za ktoré bude organizácia dostávať navýšené financie. Významnú úlohu majú aj naše profily na sociálnych sieťach a prezentácia organizácie na webe, preto je potrebné zabezpečiť ich ďalšie zatraktívnenie a pravidelnú aktualizáciu. Je potrebné udržať a rozširovať aj výskumné projekty s bezprostredným dopadom na spoločnosť, ktoré dokážu upútať pozornosť odbornej ale i laickej verejnosti. V roku 2024 sa organizácia prezentovala prostredníctvom početných popularizačných prezentácií a naši zamestnanci prezentovali výsledky svojej práce v niekoľkých mediálnych vystúpeniach. Ich detailný popis je uvedený v kapitole 7.

5. Správa duševného vlastníctva a komerčné činností

Ochrana duševného vlastníctva a patentovanie nových metodických postupov alebo novoobjavených molekúl je potenciálnym zdrojom výrazného externého financovania organizácie. Vedeckým pracovníkom sa odporúča podávanie európskych patentov, ideálne je identifikovať a komunikovať priamo s potenciálnymi partnermi, ktorí by mali záujem o využitie patentu v praxi. Vzhľadom na obmedzené finančné zdroje je nevyhnutné transformovať existujúce, ako aj nové aplikačné aktivity smerom k výraznejším finančným ziskom. Vzhľadom na absenciu výskumnej zložky súkromného sektora v biomedicínskych vedách na Slovensku, predstavujú práve zahraničné komerčné spolupráce výraznejšiu možnosť navýšenia príjmov organizácie. V roku 2024 sa nám podarilo rozšíriť teritoriálnu pôsobnosť jedného nášho národného patentu na celú EÚ.

6. Iné - personálne riadenie a kariérny rozvoj mladých výskumníkov

Udržiavanie optimálneho vekového zastúpenia výskumných pracovníkov je nevyhnutné pre ďalší úspešný rozvoj nášho výskumu. V nasledujúcich rokoch dosiahne dôchodkový vek mnoho našich výskumníkov (vrátane niekoľkých vedúcich skupín). Je nevyhnutné zriadiť efektívny systém pre nábor mladých perspektívnych vedcov a nových vedúcich skupín, ideálne s medzinárodnými skúsenosťami. Je potrebné aktívne hľadať zdroje, inzerovať pozície na medzinárodnej úrovni a organizovať vhodný nábor kandidátov. Je potrebné identifikovať mladých výskumníkov, ktorí majú potenciál úspešne žiadať o podporu z európskych výskumných programov (Horizon Europe a ERC). Je žiadúce obnoviť náš interný program podpory postdoktorandov, v rámci ktorého sú mladí kolegovia súťažne vyberaní raz ročne. Táto iniciatíva nebola v posledných rokoch využívaná, predovšetkým kvôli veľmi obmedzenému a čiastočne nepredvídateľnému rozpočtu na mzdy. Narastajúci počet odchádzajúcich kolegov by nám mal opäť umožniť nahromadiť dostatok finančných prostriedkov na túto iniciatívu.

Naša vedecká rada a vedenie pripravila a využíva interné predpisy definujúce hlavné zásady našej politiky v oblasti personálneho riadenia. Tento dokument je pravidelne aktualizovaný podľa aktuálnych potrieb a definuje základné princípy prijímania a udržiavania výskumných pracovníkov. Je potrebné uchádzať sa v čo najväčšej miere aj o grantové schémy SAV (SASPRO, IMPULZ a iné), podobne ako tomu bolo v prípade úspešného získania finančnej podpory z programu IMPULZ pre nových perspektívnych vedúcich pracovných skupín. Aj keď SASPRO schéma vyžaduje spolufinancovanie z nášho mzdového rozpočtu, poskytujú dodatočné finančné zdroje, vďaka ktorým je možné prilákať ďalších vynikajúcich výskumných pracovníkov. 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, aj zahraničných, vedeckých pracovníkov, ako aj na nákup potrebnej prístrojovej infraštruktúry.

Prilákanie nových talentovaných postdoktorandov a nových perspektívnych vedúcich skupín je nevyhnutné pre udržateľnosť organizácie. Jeden zo spôsobov ako to dosiahnuť je identifikácia našich končiacich talentovaných doktorandov. Sme si však vedomí potreby medzinárodnej mobility a získavania interdisciplinárnych skúseností, predovšetkým pre mladých výskumníkov. Preto predstavujú uchádzači po dlhodobom alebo aspoň strednodobom pobyte v zahraničných výskumných centrách perspektívnejších kandidátov.

Kariérny rozvoj je dôležitým faktorom pre budúcu vedúcu pozíciu našich mladých výskumníkov. Vedenie ústavu pripraví vhodné podmienky pre kariérny rozvoj tým, že podporí kandidátov, ktorí získajú manažérske zručnosti absolvovaním štúdia MBA, MHA alebo MPH. Tento prístup nám

umožní vyškoliť vynikajúcich výskumníkov s komplexnými manažérskymi zručnosťami, ktoré považujeme za nevyhnutné pre budúci pokrok a rozvoj ústavu.
Na ÚMB SAV, v. v. i. pôsobí od roku 2023 úspešný štipendista programu IMPULZ (Mgr. Ján Jamroškovič, PhD.), ktorému sa v priebehu jedného roka podarilo z vlastných prostriedkov s pomocou organizácie vybudovať nové molekulárnobiologické laboratórium, zamestnať jednu odbornú pracovníčku, prijať dvoch zahraničných doktorandov a jedného perspektívneho vedeckého pracovníka.

14.3. Aktualizácia Akčného plánu organizácie v roku 2024

Vedecká rada ÚMB SAV, v. v. i., vypracovala v marci 2024 znenie nového akčného plánu, ktorý reflektuje odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV za obdobie 2016 - 2021. Akčný plán bol prerokovaný aj s naším Medzinárodným poradným výborom a je úzko prepojený aj s našou výkonnostnou zmluvou podpísanou v roku 2024.

15. Iné významné činnosti organizácie

ÚMB SAV, v. v. i. je majiteľom sekcie Cellular and Molecular Biology medzinárodného časopisu Biológia evidovaného v Current Contens a Web of Science s IF 2023: 1,4. 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 2024 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 ako celku

Vzhľadom na zvyšujúci sa záujem médií o vedeckú prácu zamestnancov ústavu, ako aj ostatných ústavov SAV, a tiež záujem o názory vedeckých pracovníkov na citlivé spoločenské témy (napr. COVID-19), navrhujeme Predsedníctvu SAV (P SAV) posilniť právne oddelenie, resp. usporiadať semináre, prípadne workshopy, ktoré by usmernili vedeckých pracovníkov a poskytli im základné právne znalosti, predovšetkým z oblasti poškodenia mena, či dobrej povesti.

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

Jedným z týchto problémov je podpora marketingových aktivít zo strany P SAV pri 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.

Vedenie ústavu by ocenilo usmernenie pri problémoch s finančnými príjmami z vedeckej a odbornej činnosti, ktoré nemohli byť naplánované do limitov verejných výdavkov vzhľadom k tomu, že v čase plánovania limitov ešte neexistovala zmluva medzi ÚMB SAV, v. v. i. a partnerom o spolupráci alebo takéto zmluvy ani neexistujú (ide napr. o činnosť medového laboratória pri analýze medov, kde počet partnerov sa mení a nie je daný dopredu).

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 28. 1. 2025 prerokovala a schválila hodnotenie výsledkov výskumnej činnosti ÚMB SAV, v. v. i., a konštatovala, že ÚMB SAV, v. v. i., je i naďalej spôsobilý vykonávať výskumnú činnosť.
V roku 2024 naši vedeckí pracovníci publikovali celkovo 32 impaktovaných vedeckých publikácií, pričom drvivá väčšina z nich, až 94 %, patrí do 1. a 2. kvartilu Scimago (66 % 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 2023 (vykazované v roku 2024) sme celkovo získali 1 957 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 2024 patrí podľa vedeckej rady v oblasti základného výskumu problematika charakterizácia mechanizmu nájdenia miesta asymetrického bunkového delenia počas sporulácie v *Bacillus subtilis* (pracovná skupina RNDr. Imricha Baráka, DrSc.), úloha polyfosfátu a fosforylácie tyrozínu v N-terminálnej doméne ľudskej mitochondriálnej Lon proteázy (pracovná skupina RNDr. Vladimíra Pevalu, PhD.) a štúdium štrukturálnej podobnosti sekvenčne nehomologických N-terminálnych úsekoch transportérov neurotransmiterov (pracovná skupina RNDr. Františka Jurského, CSc.). V oblasti aplikačného výskumu je to vývoj diagnostických sekvenačných protokolov na detekciu mikrobiálnych patogénov v hotových šalátoch (pracovná skupina Dr. Domenica Pangalla), vývoj nového systému syntetickej biológie pre produkciu modifikovaných biologicky aktívnych látok (pracovná skupina RNDr. Jána Kormanca, DrSc.) a potenciálne využitie mliečneho proteínu laktoferínu, ktorý sa cez svoj N-koniec viaže na receptor viažúcu doménu proteínu Spike vírusu SARS-CoV-2 (pracovná skupina Mgr. Vladimíra Leksu, PhD.).

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 28.1.2025

Mgr. Ľuboš Kľučár, PhD.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2024 vypracoval(i):

RNDr. Lucia Bocánová, PhD., 02 5930 7440

Bratislava, 4.2.2025

RNDr. Imrich Barák, DrSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

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.	30	0.94
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. Marian Farkašovský, CSc.	100	1.00
9.	RNDr. Nora Halgašová, PhD.	100	1.00
10.	RNDr. Katarína Chovanová, PhD.	100	1.00
11.	Mgr. Zuzana Chromiková, PhD.	100	1.00
12.	Mgr. Ján Jamroškovič, PhD.	100	1.00
13.	RNDr. František Jurský, CSc.	100	1.00
14.	RNDr. Mária Kajsiková, PhD.	100	0.67
15.	Mgr. Ľuboš Kľučár, PhD.	100	1.00
16.	Ing. Daniela Krajčíková, CSc.	100	1.00
17.	Mgr. Lucia Kraková, PhD.	100	1.00
18.	Mgr. Nina Kunová, PhD.	100	1.00
19.	Mgr. Vladimír Leksa, PhD.	100	1.00

20.	RNDr. Tetiana Moskalets, PhD.	100	1.00
21.	RNDr. Katarína Muchová, CSc.	100	1.00
22.	Mgr. Renáta Nováková, CSc.	100	1.00
23.	Ing. Gabriela Ondrovičová, PhD.	100	1.00
24.	RNDr. Vladimír Pevala, PhD.	100	1.00
25.	Mgr. Andrea Puškárová, PhD.	100	1.00
26.	RNDr. Ľubica Urbániková, CSc.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Lucia Bocánová, PhD.	100	1.00
2.	Mgr. Dominika Csölleiová, PhD.	100	0.36
3.	Mgr. Zuzana Farkas, PhD.	100	0.00
4.	Mgr. Marek Gabriško, PhD.	50	0.50
5.	Mgr. Henrieta Havalová, PhD.	100	0.41
6.	Mgr. Filip Mareček, PhD.	100	1.00
7.	RNDr. Barbora Niku, PhD.	100	0.16
8.	MSc. Jelena Pavlović, PhD.	100	1.00
9.	Ing. Ľudmila Slivka Vavrová, PhD.	50	0.04
10.	Mgr. Matej Stano, PhD.	10	0.10
11.	Mgr. Barbora Stojkovičová, PhD.	100	0.00
12.	MUDr. Magda Suchánková, PhD.	15	0.15
13.	Ing. Pavol Vadovič, PhD.	100	0.16
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Veronika Bellová	100	0.00
2.	MSc Maria Vittoria Cottini	40	0.36
3.	RNDr. Ľubomíra Fecková	100	1.00
4.	Ing. Jana Godočíková	100	1.00
5.	Ing. Janka Harichová	100	1.00
6.	Mgr. Michaela Hodorová	50	0.50
7.	Mgr. Diana Hubertová	100	1.00
8.	Mgr. Milan Hučko	5	0.04
9.	Dipl.-Ing. Polina Marchenko	100	1.00
10.	Mgr. Lucia Martináková	100	1.00
11.	Mgr. Filip Opaterný	100	1.00
12.	Ing. Bronislava Řežuchová	100	1.00

13.	RNDr. Beatrica Ševčíková	100	1.00
14.	Mgr. Andrea Vetráková	8	0.08
15.	Mgr. Silvia Žarnovičanová	8	0.08
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Alžbeta Janečková	50	0.50
2.	Mgr. Pavol Pataky	100	1.00
3.	Ing. Dana Rybárová	100	1.00
Odborní pracovníci ÚSV			
1.	Katarína Kválová	100	1.00
2.	Erika Poleková	100	1.00
3.	Katarína Semešová Pírová	100	1.00
4.	Kristína Zvarová	80	0.78
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. Jana Júdová, PhD.	31.8.2024	0.66
2.	Mgr. Naďa Labajová, PhD.	31.10.2024	0.84
Vedeckí pracovníci			
1.	RNDr. Romana Kalianková Chovanová, PhD.	26.11.2024	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Lucia Nemčovičová	30.11.2024	0.92
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Eva Okoličányiová	31.1.2024	0.04
2.	Mgr. Svitlana Shterenberg	9.2.2024	0.08
Odborní pracovníci ÚSV			

1.	Renáta Knirschová	31.8.2024	0.66

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 Galová	Prírodovedecká fakulta UK	1536 biológia
3.	Mgr. Terézia Hromádková	Prírodovedecká fakulta UK	1536 biológia
4.	Mgr. Milan Hučko	Prírodovedecká fakulta UK	1536 biológia
5.	MSc. Viktoria Chirkova	Prírodovedecká fakulta UK	1536 biológia
6.	Mgr. Kamila Cholvadtová	Prírodovedecká fakulta UK	1536 biológia
7.	MSc. Sidra Ishrat	Prírodovedecká fakulta UK	1536 biológia
8.	Mgr. Nikola Klištincová	Prírodovedecká fakulta UK	1536 biológia
9.	Mgr. Bohuš Kubala	Prírodovedecká fakulta UK	1536 biológia
10.	Mgr. Martin Labuda	Prírodovedecká fakulta UK	1536 biológia
11.	Dr. Francesca Maisto	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			
1.	MSc. Maria Vittoria Cottini	Prírodovedecká fakulta UK	1420 chémia
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 %)
1.	Mgr. Dominika Csölleiová, PhD.	21.8.2024	22.8.2024	100

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:	-

Dosiahnuté výsledky:
Zúčastnili sme sa na webinároch. Expert Series Webinars COST-Action21 NETSKINMODELS.Sulev Koks: „Insight into his work in the field of genomics and skin diseases.“ Brian Mikkelson and Jay:„Advanced Human Vascularized Tissue Models“.
Thierry Poumeyrol:“Neurons as a sensor: how to use neurons as a universal bio-digital sensor in biopharma, dermo-cosmetic & nutrition applications”.

2.) 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 Investigaçio Agrária e Veterinária (INIAV)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 2667 €

Dosiahnuté výsledky:
Dr. Juraj Majtán sa zučastnil na 1. vedeckej konferencii mobilitného projektu COST, kde aj aktívne predniesol svoj príspevok. V rámci spolupráce partnerov v COST projekte, boli zaslané vzorky medov zo Slovenska na analýzu a zároveň sa analyzovali v laboaratóriu vzorky zahraničných medov

Programy: Iné

3.) 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

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

Dosiahnuté výsledky:
Úplné vylúčenie mikrobiologického rizika v šalátoch pripravených na konzumáciu je štatisticky nereálne, pretože ku kontaminácii môže dochádzať v celom procese výroby.
Trh šalátov určených priamo na konzumáciu, však môže ťažiť z nových udržateľných technológií, ktoré môžu podporiť rozhodnutia v oblasti riadenia rizík predtým, ako sa šaláty dostanú k spotrebiteľom.
Na tento účel naše laboratórium vyvíja diagnostické vysokovýkonné sekvenačné protokoly zamerané na detekciu potenciálnej mikrobioty (baktérie a plesne) schopnej ovplyvniť šaláty pripravené na konzumáciu, ale aj naše zdravie.
Publikácia:
Klištincová, N., Pin, L., Puškárová, A., Giannino, D., Bučková, M., Lambreva, M.D., Manfredini, A., Canfora, L., Pangallo, D. and Pinzari, F., 2024. From farm to fork: fungal and bacterial

contaminants and their diagnostics in the production steps of ready-to-eat salads. Trends in Food Science & Technology, p.104573.

5.) Výskum peroxygenáz z nehubových, bazálnych hubových a iných hubových druhov pre aplikácie v biotechnológii *(Exploring unspecific peroxygenases from non-fungal, basal fungal and other selected fungal species for their application in biotechnology)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.1.2024 / 31.12.2025
Evidenčné číslo projektu:	CSIC-SAS-2023-01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Španielsko: 1, Slovensko: 1
Čerpané financie:	SAV: 5000 €

Dosiahnuté výsledky:
S prof. Francescom Javierom Ruiz-Duenasom z CSIC-CIB pracoviska v Madride sme sa zamerali na systematický výskum nešpecifických hemových peroxygenáz. Analyzovali sme fylogenetické vzťahy a navrhli 9 unikátnych syntetických génov na heterológnu expresiu.

Programy: European Commision

6.) Udržateľné archívy a ekologickejšie prístupy *(Sustainable Archives and Greener Approaches)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.11.2024 / 30.9.2027
Evidenčné číslo projektu:	101173303
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
So zbierkovými materiálmi Národného archívu, ktoré slúžia ako živé laboratóriá, budú môcť odborníci SAV predovšetkým posúdiť (kvalitatívne a kvantitatívne) vplyvy na konzerváciu archívov s prihliadnutím na fyzikálne vplyvy (svetlo, teplota, vlhkosť) a biologické činitele (huby, baktérie). a hmyzu) vďaka zberu biologických vzoriek, rôznym meracím a prediktívnym nástrojom s konečným cieľom identifikovať medzery a riziká v zúčastnených archívnych inštitúciách. Mikrobiologická analýza umožní identifikáciu mikroorganizmov znehodnocujúcich papier, ktoré môžu kontaminovať dokumenty, knihy a tiež okolité prostredie (napríklad vzduch, steny a iné povrchy).

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: 3907 €

Dosiahnuté výsledky:
Posledný rok projektu bol venovaný skúmaniu interakčnej špecificity PDZ proteínov CADM1 a MUPP1, kďže sa nám podarilo zaviesť silný protilátkový epitop do extracellulárnej časťi CADM1. Výsledky ukázali heterogénnu interakciu CADM1 s prvými piatimi doménami MUPP1, pričom doména 2 vykazovala silnú dominanciu. Tieto experimentálne výsledky boli potvrdené aj in silico štúdiami.

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: 15772 €

Dosiahnuté výsledky:
V našej práci sa nám na molekulárnej úrovni podarilo pochopiť niektoré aspekty ako môžu baktérie merať svoju dĺžku a nájsť správne miesto bunkového delenia počas sporulácie. Pochopenie tohto mechanizmu je základom pre zodpovedanie na jednu z najfascinujúcejších otázok v bakteriálnej vývojovej biológii. Získané poznatky sú dôležité najmä z hľadiska základného výskumu.

Publikácie:
1. K. Muchová, J. Pospísil, E. Kalocsaiová, Z. Chromiková, S. Zarnovičanová, H. Sanderová , L. Krásný, and I. Barák (2024) Spatio-temporal control of asymmetric septum positioning during sporulation in Bacillus subtilis. J. Biol. Chem. 300, 107339. doi: 10.1016/j.jbc.2024.107339 (IF = 4.51) (Q1 JCR2023; Q1 SJR2023)(Nature index journal)

3.) Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami v svorkovej oblasti ľudského ryanodínového receptora 2 *(Study of the effect of cardiac arrhythmia-associated mutations on the structure and function in the clamp region of human ryanodine receptor 2)*

Zodpovedný riešiteľ:	Vladena Bauerová
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0081/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9261 €

Dosiahnuté výsledky:
V prvom roku riešenia projektu sme sa zamerali na cielenú mutagenézu a expresiu domény Repeat12 hRyR2 zo svorkovej oblasti a to v aminokyselinách 1013 a 1051, ktoré súvisia so srdcovými arytmiami, predovšetkým s ochorením CPVT1. Taktiež sme začali robiť štúdie tejto domény pomocou pomocou molekulovej dynamiky. Okrem toho sme sa venovali aj mutáciám v N-terminálnej doméne hRyR2, konkrétne v pozícii M81L v subdoméne A, a L433P v centrálnom helixe, ktoré sme exprimovali, purifikovali a charakterizovali pomocou viacerých biofyzikálnych techník, ako nanoDSF, FIDA, CD-spektroskopia a SAXS. Výsledky naznačujú, že mutácia M81L zvyšuje stabilitu N-terminálnej domény hRyR2, kdežto mutácia L433P nemení stabilitu, avšak zásadným spôsobom ovplyvňuje oligomérny stav NTD hRyR2 ako aj zbalenie tejto domény. Výsledky sme prezentovali na medzinárodných a národných workhopoch a konferencách:

1. T. Hromádková, V. Bauerová-Hlinková, G. Žoldák, J. A. Bauer. Študentská Vedecká Konferencia PriFUK, Bratislava, 25. 04. 2024. Poster s názvom: “Kryštalizácia a biofyzikálna charakterizácia mutácií M81L a L433P ľudského ryanodínového receptora 2 asociovaných s arytmiami myokardu". Príspevok publikovaný v zborníku recenzovaných príspevokov ŠVK PriFUK 2024, str. 225-230.
https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_PriF_UK_2024.pdf

2. T. Hromádková, J. Bauer & V. Bauerová-Hlinková. XXIII. setkání biochemiků a molekulárních biologů, 12-13. 11. 2024, Brno, Česká republika. Poster s názvom: "Biophysical characterization and crystallization of mutant forms of human ryanodine receptor 2 associated with arrhythmias". https://setkani.sci.muni.cz/posters-2024, P11.

3. J. Bauer. Crystal structures and dynamics: Normal mode analysis. Prednáška on line. Struktura 2024, 18-22. 11. 2024, Loučná nad Desnou, Česko. Abstrakt:
https://www.xray.cz/kolokvium/files/539.htm

4. V. Bauerová. The involvement of SAXS in better understanding the dysfunction of human cardiac RyR2 caused by arrhythmia-associated mutations. Flash presentation. Virtual P12 User Meeting 2024. 9-10.10. 2024, Hamburg, Germany. https://padlet.com/Graewert/embl-s-p12-user-meeting-2024-d7g0zsfalgj wjl9d

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: 9498 €

Dosiahnuté výsledky:
Projekt VEGA je zameraný na štúdium lytických a replikačných proteínov izolovaných z bakteriofágov a ich antibakteriálny potenciál. Dokončili sme charakterizáciu štruktúrno-fyziologických vlastnosti SLT proteínov SLT02 a SLT05, pôvodom z chvostíkového proteínu gp15 fága BFK20, ktoré sa líšia 25 AK v C-terminálnej oblasti. Výsledky sme publikovali. Endolyzín gp24 z lytického fága BFK20 bol izolovaný a charakterizovaný (Gerova a kol., 2011). Na SDS/PAGE sme identifikovali dva proteíny s Mh=32 kDa a Mh cca 10 kDa. V súčasnosti sme pomocou špecifickej protilátky voči väzbovej doméne (BD) a Western blotom potvrdili prítomnosť BD v oboch proteínoch. Predpokladáme, že menší proteín predstavuje samostatnú BD endolyzínu gp24, zrejme exprimovanu z vnútorného metionínu. Prípravou bodového mutanta proteínu gp24, so zameneným metionínom M189 za izoleucín, pripravíme proteín gp24_M189I, ktorý chceme izolovať, charakterizovať a porovnať jeho vlastnosti s nemutovaným gp24. Pokračovali sme v štúdiu mutantov replikačného proteínu gp41 (helikáza z rodiny SF2) fága BFK20. Päť bodových proteínu gp41 s mutáciami v krajnej C-koncovej oblasti. (K516A, R518A, D520A, D521A, E522A) sme ďalej charakterizovali. Merali sme ATPázovú aktivitu a pokračovali sme v testovaní väzby proteínov na rôzne DNA substráty. Použili sme neznačené ssDNA a dsDNA substráty a substráty značené fluoresceínom a biotínom. Proteíny naviazané na ssDNA sme kvantifikovali pomocou biotínom značenej oligonukleotidovej sondy a imunodetekciou. Výsledné množstvo vzniknutého konečného produktu p-nitrofenolu sme merali spektrofotometricky. Analýzou výsledkov sme zistili, že zámena K516A v proteíne spôsobila najvýraznejší pokles ATPázovej aktivity aj DNA-viažúcej schopnosti mutanta.
V rámci vedenia stredoškolských študentov sme sa zapojili do SOČ s projektom testovania antibakteriálneho potenciálu látok. Študent gymnázia Grösslingova G. Onduš pod vedením Dr. Bocánovej charakterizoval viaceré rastlinné extrakty a ich antibakteriálny účinok na vybrané druhy streptokokov a stafylokokov. Zistili sme silné antibakteriálne účinky extraktov šalvie a cesnaku a použitím biochromatografie len u šalvie. Šalviové extrakty mali vplyv aj na zabránenie formovania biofilmu bakteriálnych kmeňov streptokokov a stafylokokov v podmienkach in vitro.
Výstupy:
Papayova, K., Bocanova, L., Bauerova-Hlinkova, V., Bauer, J., Halgasova, N., Kajsikova, M., Bukovska, G. From sequence to function: Exploring biophysical properties of bacteriophage BFK20 lytic transglycosylase domain from the minor tail protein gp15. (2024) BBA-Proteins Proteomics 1873(1): 141044
Výstupy SOČ
Stredoškolská odborná činnosť (február 2024), Festival vedy a techniky (október 2024), Študentská vedecká konferencia FChPT STU a Festival vedy a techniky AMAVET (november 2024), Biologická olympiáda, projektová časť (december 2024).

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: 5967 €

Dosiahnuté výsledky:
Zameriavame sa na sledovanie antifungálnej aktivity moderných 2D nanomateriálov a nanočastíc, ktorými sú plazmónové nanočastice MXény a MoOx v kombinácii s monoterpenoidnými fenolickými zlúčeninami (tymol, karvakrol) a terpénalkoholom (linalool), všetky z čeľade Lamiaceae. Kombináciou týchto biokompatibilných nanomateriálov a terpenoidných zlúčenín sme dosiahli čiastočné potlačenie hubového poškodenia prírodných a moderných stavebných materiálov.

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: 9373 €

Dosiahnuté výsledky:
(1)
V rámci medzinárodnej spolupráce s Dr. Nicole Koropatkinovou (University of Michigan Medical School, Ann Arbor, MI, USA) bol v publikácii terciárnej štruktúry nového typu škrob-viažucej domény amylolytických enzýmov, klasifikovanej do rodiny CBM74, súčasťou aj príspevok týkajúci sa evolúcie tejto domény a evolučných vzťahov v rámci rodiny CBM74.

Photenhauer A.L., Villafuerte-Vega R.C., Cerqueira F.M., Armbruster K.M., Marecek F., Chen T., Wawrzak Z., Hopkins J.B., Vander Kooi C.W., Janecek S., Ruotolo B.T. & Koropatkin N.M.: The Ruminococcus bromii amylosome protein Sas6 binds single and double helical alpha-glucan structures in starch. Nature Structural & Molecular Biology 2024, 31: 255-265. https://doi.org/10.1038/s41594-023-01166-6

(2)
Na základe detailnej in silico analýzy 3354 sekvencií enzýmu trehalózasyntáza z podrodiny GH13_16, ktorý môže byť na svojom C-konci fúzovaný s enzýmom maltokináza boli popísané unikátne sekvenčno-štruktúrne črty maltokináz a ich mutantných foriem s ohľadom na mutácie v

ich katalytickej mašinérii a maltózu-viažucich aminokyselinových zvyškoch.

Urbanikova L. & Janecek S.: Trehalose synthases from the subfamily GH13_16 involved in alpha-glucan biosynthesis - a focus on their maltokinase domain. International Journal of Biological Macromolecules 2024, 268: 131680. https://doi.org/10.1016/j.ijbiomac.2024.131680

(3)
Na základe detailnej in silico analýzy dvoch skupín enzýmov z alfa-amylázovej rodiny GH13 reprezentovaných maltogénnou amylázou z Thermotoga neapolitana a alfa-amylázou z Haloarcula japonica boli navrhnuté dve nové podrodiny, ktorým boli kurátormi v databáze CAZy oficiálne pridelené čísla GH13_48 a GH13_49.

Marecek F., Terrapon N. & Janecek S.: Two newly established and mutually related subfamilies GH13_48 and GH13_49 of the alpha-amylase family GH13. Applied Microbiology and Biotechnology 2024, 108: 415. https://doi.org/10.1007/s00253-024-13251-x

(4)
Na základe detailnej in silico analýzy 1709 sekvencií alfa-amylázovej rodiny GH126 (t.j. aktuálnej kolekcie rodiny) boli identifikované unikátne sekvenčno-štruktúrne črty tejto rodiny, ktoré by definitívne umožňovali odlíšiť členov GH126 od rodín GH8 a GH48, s ktorými zdieľajú určitú podobnosť v sekvenciách a štruktúrach, pričom v rodine GH126 doteraz nebol identifikovaný ani reakčný mechanizmus, ani katalytická mašinéria.

Hodorova M. & Janecek S.: The family GH126 - its relatedness to and differentiation from GH8 and GH48 including the intermediary sequences. Food Bioscience 2024, 62: 105064. https://doi.org/10.1016/j.fbio.2024.105064

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: 3736 €

Dosiahnuté výsledky:
N-terminálne úseky SLC6 transportérov sú sekvenčne rozdielne a nieje jasné či napriek svojej diverzite obsahujú skrytú podobnosť, zodpovenú za ich spoločnú funkciu. Pomocou porovnania aminokyselinových sekvencií s ich hydropatickým plotom, predikciou ich proteínovéj neusporiadanosti a polohy kalpainových štiepnych miest sa nám podarilo potvrdiť, že spoločné štrukturálne črty v N-terminálnych úsekoch transportérov naozaj existujú. Tieto spločné štrukturálne črty sa odrážajú aj v nami nedávno popísanej spektrálnej metachromázii 465-595-350-750 nm počas Bradfordovej stanovenia. Naše posledné výsledky ukázali, že podobnú metachromáziu vykazuje tiež agregácia viacerých druhov čiastočne denaturovaných GST proteínov. Ukazuje sa teda že Coomassie G250 môže predstavovať senzor prítomnoti určitého typu proteínovej štruktúry v N-terminálnych úsekoch transportérov, ktorý sa tiež výnimočne nachádza v

čiastočne, nie však plne denaturovaných GST proteínoch.

Publikácie:

BALIOVÁ, M. - JURSKÝ, F.. Common structural features in some of the sequentially distant neurotransmitter transporters N-termini. In J Struct Biol., 2024a, vol. 216(4):, art. no. 108137. (2023: 3 - IF, Q2 - JCR, Q1 - SJR) ADCA

BALIOVÁ, M. - JURSKÝ, F.Correlation of calpain sensitivity, Bradford assay instability, and electrophoretic mobility in phosphomimetic mutants of GlyT2 N-terminus. In Biochem Biophys Rep., 2024b, vol. 38, art. no. 101734. (2023: 2.3 - IF, Q3 -JCR, Q2 - SJR) ADMA

BALIOVÁ, M. - JURSKÝ, F.. Manganese- and zinc-coordinated interaction of Schistosoma japonicum glutathione S-transferase with neurotransmitter transporters GlyT1 and GAT3 in vitro. In Exp Parasitol., 2024c, vol. 259, art. no. 108721. (2023: 1.4 - IF, Q3 - JCR, Q2 - SJR) ADCA

8.) Charakterizácia unikátnej biosyntézy a regulácie polyketidového antibiotika auricínu v Streptomyces lavendulae subsp. lavendulae CCM3239 *(Characterization of the unique biosynthesis and regulation of the polyketide antibiotic auricin in Streptomyces lavendulae subsp. lavendulae CCM3239)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0001/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 17259 €

Dosiahnuté výsledky:
Charakterizácia nami identifikovaného aromatického polyketidového sekundárneho metabolitu auricínu v našom modelovom kmeni Streptomces lavendulae subsp. lavendulae CCM 3239, ako unikátneho antibiotika s protinádorovými vlastnosťami z hľadiska jeho štruktúry naznačila jeho unikátne vlastnosti. Auricín je podobný spiroketálovým pyranonaftochinónom griseusínom, napriek tomu, že centrálna oblasť jeho biosyntetického génového klastra (BGC) aur1 je vysoko homologická k angucyklínovým aromatickým polketidovým BGC. V blízkosti aur1 sa nachádza čiastočný BGC aur2 obsahujúci gény homologické k iným triedam aromatických polyketidov, pyronaftochinónom ako aj aurelovým kyselinám. Z hľadiska jeho unikátnej štruktúry nepodobnej žiadnym doposiaľ charakterizovaným angucyklínovým polyketidom je predpoklad, že auricín je syntetizovaný unikátnym mechanizmom kombináciou dvoch dráh, angucyklínovej (prostredníctvom biosyntetických génov BGC aur1) a pyranonaftochinónovej (prostredníctvom biosyntetických génov BGC aur2). Preto sme deletovali predpokladané biosyntetické gény z oboch BGC v kmeni S. lavendulae subsp. lavendulae CCM 3239 a charakterizovali produkciu auricínu a jeho medziproduktov po kultivácii v produkčnom médiu Bennet, extrakcii etyalacetátom a charakterizáciou pomocou TLC s následnou biochromatografiou s testovacím Gram-pozitívnym kmeňom B. subtilis a HPLC. U niektorých mutantov nebola postihnutá biosyntéza auricínu (aur1DE, aur1H, aur1G, aur1N, sa14, sa16, sa21, sa22, sa27, aur2E), takže uvedené gény nie sú esenciálne pre biosyntézu auricínu. U ďalších došlo k výraznému poklesu produkcie auricínu (aur1A, aur1C, sa15, sa45, aur2E, aur2F), takže tieto gény sú dôležité pri biosyntéze auricínu, ale

daný krok je sprostredkovaný aj ďalším homologickým génom. U niektorých mutantov nedochádzalo k produkcii auricínu a ani žiadneho iného sekundárneho metabolitu (sa49, sa50, aur2AB, aur2C, aur2D, aur2EFGHI, aur2B-I). Tieto gény sú kritické pre počiatočné štádiá biosyntézy auricínu. V prípade mutantov v géne sa48, sa10, sa11, sa12, a sa13 nedochádzalo k produkcii auricínu, ale v prípade mutantu v gene sa48 iného aktívneho sekundárneho metabolitu, ktorého štrukúra odhalila, že sa jedná o aglykón auricínu. V prípade génov sa10, sa11, sa12, a sa13 dochádzalo k produkcii neaktívných vedľajších produktov auriínu.

Publikácie

1, Javorova R, Sevcikova B, Rezuchova D, Novakova R, Opaterny F, Csolleiova D, Feckova L, Kormanec J: Multiple SigB homologues govern the transcription of the ssgBp promoter in the sporulation–specific ssgB gene in Streptomyces coelicolor A3(2). Res. Microbiol 175 (2024) 104201.

2, Javorova R, Rezuchova B, Feckova L, Novakova R, Csolleiova D, Kopacova M, Patoprsty V, Opaterny F, Sevcikova B, Kormanec J: A new synthetic biology system for investigating the biosynthesis of antibiotics and other secondary metabolites in streptomycetes. J. Biotech. 392 (2024) 128-138.

Účasť na zahraničných konferenciách

1, Kormanec J, Novakova R, Feckova L, Matulova M, Csolleiova D, Opaterny F, Javorova R, Rezuchova B, Sevcikova B: Striking features and complex regulation of polyketide antibiotic auricin from Streptomyces lavendulae subsp. lavendulae CCM 3239. Invited speaker. Conference handbook, The 20th Annual Congress of International Drug Discovery Science and Technology, Osaka, Japan, 20.5-24.5 2024, p. 141.

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: 11225 €

Dosiahnuté výsledky:

V rámci projektu sme pripravili ďalšie ko-šaperóny mortalínu – GrpE2 a Tid-1L. Stanovili sme disociačnú konštantu komplexov mortalínu s jednotlivými ko-šaperónmi (GrpE1, GrpE2, Tid-1S) metódou mikroškálovej termoforézy (MST). Zaviedli sme metódu merania šaperónovej aktivity využitím ďalšieho markerového proteínu ako substrátu, a to citrátsyntázy, vzhľadom na tepelnú senzitivitu luciferázy a konkurenčnú reakciu o ATP. Potvrdili sme stimulačný efekt ko-šaperónov na ATP-ázovú a šaperónovú aktivitu mortalínu. Poukázali sme na možnú reguláciu mortalínu a jeho ko-šaperónov Lon proteázou, ktorá in vitro výrazne degraduje GrpE2 a čiastočne štiepi aj GrpE1 a Tid-1S.

Pripravili sme ďalšie fosforylované verzie mitochondriálneho šaperónu Trap1, ktoré sa často

vyskytujú vo vzorkách nádorov, a analyzovali sme ich vlastnosti. Charakterizovali sme zvýšenú šaperónovú aktivitu fosfoserínovej verzie Trap1 v porovnaní s divým typom a testovali sme vplyv inhibítora na aktivitu Trap1.
Dokončili sme štúdium vplyvu fosforylácie a polyfosfátu na štruktúru a funkciu ľudskej LON proreázy.

KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - KRAJČOVIČOVÁ, Veronika - PINKAS, Matyáš - STOJKOVIČOVÁ, Barbora - HAVALOVÁ, Henrieta - LUKÁČOVÁ, Veronika - KOHÚTOVÁ, Lenka - KOŠŤAN, Július - MARTINÁKOVÁ, Lucia - BARÁTH, Peter - NOVÁČEK, Jiří - ZOLL, Sebastian - KERE?CHE, Sami - KUTEJOVÁ, Eva** - PEVALA, Vladimír**. Polyphosphate and tyrosine phosphorylation in the N-terminal domain of the human mitochondrial Lon protease disrupts its functions. In Scientific Reports, 2024, vol. 14, iss. 1, art. no. 9923. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS).

Bol tiež publikovaný článok k analýze mitochondriálnej morfológie.

Jana Vojtová, Martin Čapek, Sabrina Willeit, Tomáš Groušl, Věra Chvalová, Eva Kutejová, Vladimír Pevala, Leoš Shivaya Valášek, Mark Rinnerthaler (2024).
A fully automated morphological analysis of yeast mitochondria from wide-field fluorescence images.
Scientific Reports 14: 30144, 10.1038/s41598-024-81241-0

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: 7637 €

Dosiahnuté výsledky:
V treťom roku riešenia projektu sme pokračovali v lepšej charakterizácii interakcie DivIVA proteínu s membránou. Proteín DivIVA sa zúčastňuje bunkového delenia a slúži ako topologický marker zodpovedný za špecifickú lokalizáciu Min komplexu, ktorý je negatívnym regulátorom delenia. V spolupráci s laboratóriami Nanobiotechnológií a Kryo-elektrónovej mikroskopie a tomografie CEITEC, Brno, ČR sme pomocou AFM a Cryo-EM získali ďalšie dáta o štruktúrach, ktoré DivIVA vytvára na membráne. Získali sme aj detailnejšie výsledky ohľadom jeho schopnosti meniť morfológiu membrán. Naznačuje to, že by proteín DivIVA mohol byť aktívne zapojený aj do modelovania membrány počas bunkového delenia. Pokračovali sme tiež s identifikáciou a charakterizáciou nových proteín-proteínových interakcií DivIVA. Konkrétne sme identifikovali novú interakciu DivIVA 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 SAV: 7967 €

Dosiahnuté výsledky:
Keďže COVID-19 stále predstavuje značnú hrozbu, je prospešné poskytnúť terapeutické doplnky proti nej. V tomto ohľade glykoproteín laktoferín (LF) a laktofericín (LFC), prírodný bioaktívny peptid, ktorý sa získa štiepením z N-konca LF, sú mimoriadne zaujímavé, pretože sa ukázalo, že oba redukujú infekcie SARS-CoV-2. V uplynulom roku sme pomocou biochemických a biofyzikálnych metód odhalili, že LF sa priamo viaže na S-proteín SARS-CoV-2. Stanovili sme termodynamické a kinetické charakteristiky tvorby komplexu a zmapovali zúčastnené vzájomné väzbové miesta v tejto interakcii, menovite N-terminálnej oblasti LF a receptor viažucej domény LF S-proteín (RBD). Tieto výsledky môžu nielen vysvetliť mnohé z pozorovaných ochranných účinkov LF a LFC pri infekcii SARS-CoV-2, ale môžu byť tiež nápomocné pri navrhovaní účinných a nákladovo efektívnych doplnkových nástrojov v manažmente COVID-19. Táto práca bola publikovaná - 10.3390/ph17081021

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: 8393 €

Dosiahnuté výsledky:
Publikácie:

MAJTÁN, Juraj**. In vitro testing of honey quality and biological functionality: underestimated elements in the clinical testing of honey. In Frontiers in Nutrition, 2024, vol. 11, art. no. 1433786. (2023: 4 - IF, Q2 - JCR, 0.828 - SJR, Q1 - SJR). ISSN 2296-861X.

SCEPANKOVA, Hana - MAJTÁN, Juraj - ESTEVINHO, Leticia M. - SARAIVA, Jorge A. The High Pressure Preservation of Honey A Comparative Study on Quality Changes during Storage. In Foods, 2024, vol. 13, iss. 7, art. no. 989. (2023: 4.7 - IF, Q1 - JCR, 0.87 - SJR, Q1 - SJR). ISSN 2304-8158.

13.) Štúdium štruktúrno-funkčných vzťahov amylolytických enzýmov alfa-amylázového klanu GH-H a príbuzných rodín GH57 a GH119. *(Study of structure-function relationships of amylolytic enzymes of the alpha-amylase clan GH-H and related families GH57 and GH119.)*

Zodpovedný riešiteľ:	Filip Mareček
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	2/0102/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6132 €

Dosiahnuté výsledky:
Príprava výstupov vo forme publikácií v súlade so stanovenými cieľmi projektu.

14.) 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: 10122 €

Dosiahnuté výsledky:
Hlavným cieľom projektu bolo vyvinúť enzymatické metódy a stratégie schopné vyčistiť povrch objektov kultúrneho dedičstva, primárne predmetov z papiera, rôznych druhov s farebnými škvrnami (syntetického a prírodného pôvodu).
Ďalším dôležitým aspektom bolo získať nové cenné poznatky o úlohe a schopnosti mikroorganizmov prítomných v archívnych prostrediach.
Z týchto dvoch dôležitých cieľov boli vyvinuté rôzne enzýmové metódy vďaka mikroorganizmom izolovaných počas projektu a na identifikáciu mikrobiálnych spoločenstiev kolonizujúcich objekty a okolité prostredie boli aplikované vysokovýkonné metódy sekvenovania.

Publikácia:
Méndez, A., Maisto, F., Pavlović, J., Rusková, M., Pangallo, D. and Sanmartín, P., 2024. Microbiome shifts elicited by ornamental lighting of granite facades identified by MinION sequencing. Journal of Photochemistry and Photobiology B: Biology, 261, p.113065.

15.) Molekulárne mechanizmy fibrotických a zápalových procesov difúznych parenchýmových pľúcnych chorôb - analýzy definovaných markerov v bronchoalveolárnych lavážach a ich význam v klinickej praxi

Zodpovedný riešiteľ:	Vladimír Leksa

Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	1/0426/24
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Lekárska fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií:	1
Čerpané financie:	VEGA SAV: 3506 €

Dosiahnuté výsledky:
Príprava výstupov vo forme publikácií v súlade so stanovenými cieľmi projektu. V rámci riešenia projektu sme v prvom roku urobili analýzy, ktorých presný popis možno nájsť v práci publikovanej začiatkom tohto roku 2025:
https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2024.1479458/full
Okrem spomenutého markera CD44, na ktorý je práca zameraná sme analyzovali niekoľko iných markerov – výsledky máme zatiaľ v elektronickej forme pripravené na spracovanie a publikovanie. Zúčastnili sme sa kongresu európskej respirologickej spoločnosti (ERS) vo Viedni, kde sme niektoré z našich výsledkov prezentovali:
https://publications.ersnet.org/content/erj/64/suppl68/pa5332.

16.) 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: 10780 €

Dosiahnuté výsledky:
Úspešne sme naklonovali syntetický gén pre peroxizomálnu katalázu z Candidy auris do Pichie pastoris a uskutočnili prvé pokusy heterológnej expresie tohto hemového proteínu. Rozbehli sme rozsiahlu fylogenetickú analýzu 325 proteínových sekvencií hemových kataláz zo všetkých domén života. Pre porovnanie sme spravili aj analýzu P5CS génov, ktoré sú podobne ako katalázové gény indukovateľné stresom prostredia. Výsledky boli publikované v časopise Frontiers in Molecular Biosciences v článku Unraveling the evolutionary origin of the P5CS gene: a story of gene fusion and horizontal transfer ktorý vyšiel v 11: 1341684 (2024).

Programy: APVV

17.) 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: 4774 €

Dosiahnuté výsledky:
Uskutočnili sme systematické meranie mangánovej peroxidázovej aktivity vo vzorkách získaných z pôd solitérnych dubov v lokalite Dobrá Niva v blízkosti Banskej Štiavnice. Táto enzýmová aktivita by mala byť špecifická pre vláknité huby prítomné v pôde a preto je možné ju použiť ako indikátor prítomnosti ektomykoríznych húb aj v zmesi v pôde kde sú prítomné iné mikroorganizmy. Vypracovali sme protokol enzýmovej kinetiky pre meranie na spektrofotometri Cary-60 UVvis pri rôznych teplotách. Výsledky našich meraní boli prezentované na konferencii 11th meeting on Oxizymes v poľskom Lubline formou prednášky ktorej abstrakt vyšiel v zborníku Oxizymes in Lublin na str.31.

18.) 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: 49007 €

Dosiahnuté výsledky:
Schopnosť bakteriálnych spór vydržať bez živín milióny rokov a potom vyklíčiť predstavuje okrem medicínskych a biotechnologických možností aj riziká pre ľudské zdravie. Mnohé sporulujúce baktérie môžu spôsobiť závažné infekčné ochorenia. Na druhej strane trvanlivosť spór Bacillus subtilis viedla k ich využitiu ako probiotík v potravinárskom priemysle a stali sa tiež základom pre vývoj systémov na výrobu nových vakcín. Aj to je dôvod, prečo sa tento organizmus už desaťročia využíva na štúdium základných bunkových procesov ako je bunkové delenie a sporulácia. V našej práci sa nám na molekulárnej úrovni podarilo pochopiť niektoré aspekty ako môžu baktérie merať svoju dĺžku a nájsť správne miesto bunkového delenia počas sporulácie. Pochopenie tohto mechanizmu je základom pre zodpovedanie na jednu z najfascinujúcejších otázok v bakteriálnej vývojovej biológii. Získané poznatky sú dôležité najmä z hľadiska základného výskumu. Navyše, poznatky o inhibícii funkcie proteínov, ktoré sa podieľajú na delení buniek a sporulácie, môžu pomôcť aj v príprave nových antibakteriálnych liečiv proti patogénnym multirezistentným baktériám tvoriacim spóry.

Publikácie:

1. K. Muchová, J. Pospísil, E. Kalocsaiová, Z. Chromiková, S. Zarnovičanová, H. Sanderová , L. Krásný, and I. Barák (2024) Spatio-temporal control of asymmetric septum positioning during sporulation in Bacillus subtilis. J. Biol. Chem. 300, 107339. doi: 10.1016/j.jbc.2024.107339 (IF = 4.51) (Q1 JCR2023; Q1 SJR2023)(Nature index journal)

19.) Biologické čistenie (biocleaning): mikroorganizmy a ich enzýmy pre efektívne odstraňovanie syntetických polymérov z povrchov objektov kultúrneho dedičstva
(Biocleaning: microorganisms and their enzymes for effective removing of synthetic polymers from cultural heritage object surfaces)

Zodpovedný riešiteľ:	Mária Bučková
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0235
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20000 €

Dosiahnuté výsledky:
Pri reštaurovaní a konzervácii sa syntetické polyméry často používajú ako lepidlá, nátery a konsolidanty. Postupom času tieto materiály degradujú alebo zlyhávajú, čo si vyžaduje starostlivé odstránenie bez poškodenia podkladových štruktúr alebo artefaktov.
Stratégie založené na enzýmoch získavajú na popularite vďaka svojej špecifickosti, šetrnosti k životnému prostrediu a miernym prevádzkovým podmienkam.
Izolovali sme mikroorganizmy so zaujímavými enzymatickými aktivitami na odstraňovanie syntetických polymérov, ktoré sa bežne vyskytujú pri konzervačných postupoch.
Publikácia:
Méndez, A., Maisto, F., Pavlović, J., Rusková, M., Pangallo, D. and Sanmartín, P., 2024. Microbiome shifts elicited by ornamental lighting of granite facades identified by MinION sequencing. Journal of Photochemistry and Photobiology B: Biology, 261, p.113065.

20.) Moderné aplikácie bakteriofágov v prevencii nozokomiálnych a alimentárnych infekcií
(Modern bacteriophage applications in the prevention of nosocomial and alimentary infections)

Zodpovedný riešiteľ:	Gabriela Bukovská
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0140
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3877 €

Dosiahnuté výsledky:
V súlade s cieľmi projektu sme sa zamerali na prípravu nových endolyzínov a fúznych proteínov, ktoré by sa vyznačovali širokým spektrom pôsobenia a zvýšenou lytickou aktivitou voči gram pozitívnym baktériám. V rámci riešenia projektu sme pripravili z endolyzínu EN572_5, pôvodom z profága kmeňa S. agalactiae KMB-572, delečný mutant EN572_5dGlu, skrátený o sekvenciu

kódujúcu glukozaminidázu (katalytická doména). Lytickú aktivitu mutanta sme testovali na substrátoch pripravených z viacerých kmeňov streptokokov, na ABSA/UPSA kmeňoch a na štyroch izolátoch uropatogénnej E. coli (UPEC). Lytickú aktivitu endolyzínu sme sledovali aj na in vitro modeli GBS infekcie močových ciest a dokázali sme bakteriostatický účinok delečného proteínu v ľudskom moči voči izolátom ABSA a UPSA.
Testovali sme endolyzín EN534-C (EP4262843) a jeho schopnosť eliminovať a eradikovať in vitro tvorbu biofilmov patogénnych bakteriálnych kmeňov S. agalactiae a S. aureus. Najprv sme vytvorili zbierku kmeňov a tvorbu biofilmov sme testovali pre vybrané dva kmene S. aureus a 20 kmeňov S. agalactiae. Biofilmy sme kvantifikovali pomocou mikrotitračného testu a merali spektrofotometricky. Na základe nameraných hodnôt sme rozdelili kmene na i) silne, ii) stredne iii) slabo tvoriace biofilm a ne-tvoriace biofilm. Endolyzín EN534-C pri koncentrácii 0,1 umol/l a 0,3 umol/l preukázal eradikáciu biofilmu už po 2h pôsobenia pri 37°C. Pre vybrané zbierkové a klinické kmene S. agalactiae sme kvantifikovali tvorbu biofilmu po 24 h v mlieku.
Ďalej sme pripravili dva nové fúzne endolyzíny. Endolyzíny EN534-C a gp24 (endolyzín fága BFK20) sme fúzovali s doménou SLT05 (lytická doména z fága BFK20). Pomocou afinitnej chromatografie sme izolovali proteín EN534_SLT a jeho lytickú aktivitu sme potvrdili na bakteriálnych substrátoch S. agalactiae KMB-534 a S. agalactiae CCM 6187. Aktivita bola porovnateľná s pôvodným endolyzínom EN534-C. Fúzny endolyzín gp24_SLT obsahuje doménu amidáza_2 z endolyzínu gp24 a doménu SLT05. Fúzovaním týchto domén sme predpokladali zvýšenie lytickej aktivity a lytického spektra nového endolyzínu gp24_SLT. Zatiaľ sme na bakteriálnych substrátoch S. agalactiae CCM 6187, KMB-534, KMB-564, S. aureus CCM 4223 a ani pre Brevibacterium flavum CCM 251 signifikantnú lytickú aktivitu nepotvrdili
Výstupy:
Európsky patent číslo EP4262843, ktorý je platný v 17 štátoch EU bol udelený 2.7.2024.

21.) Využitie prírodných rastlinných olejov a extraktov pre potravinové obaly *(Application of natural plants oils and extracts for foodpackaging)*

Zodpovedný riešiteľ:	Anita Eckstein
Zodpovedný riešiteľ v organizácii SAV:	Domenico Pangallo
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0401
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav polymérov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 8000 €

Dosiahnuté výsledky:
Prírodné rastlinné extrakty a esenciálne oleje obsahujú bioaktívne zlúčeniny, ktoré inhibujú rast mikróbov, zabraňujú kazeniu potravín a zvyšujú bezpečnosť.
Tieto prírodné zlúčeniny boli priamo začlenené do biodegradovateľných polymérov, aby sa zabránilo mikrobiálnej kontaminácii.

22.) Klonálne a imunitné interakcie pri high-grade transformácii B-bunkových lymfómov *(Clonal and immune interactions in high-grade transformation of B-cell lymphomas)*

Zodpovedný riešiteľ:	Dana Cholujová

Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0482
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3578 €

Dosiahnuté výsledky:
Príprava metodiky spracovania a analýzy mRNA multimodálnych single-cell sekvenačných dát pomocou programovacieho jazyka R, doplnkovej R knižnice Seurat a pomocou príbuzných voľne dostupných anotovaných datasetov. Táto metodika bude následná aplikovaná na analýzu multimodálne single-cell sekvenačné dáta pacientov s rakovinou kostnej drene.

23.) 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: 3402 €

Dosiahnuté výsledky:
Na základe SPADE výsledkov sme vytvorili rôzne skupiny bunkových typov, ktoré sme následne analyzovali pomocou štatistického testu Mann-Whitney. Výsledky sme vizualizovali pomocou programovacieho jazyka R a doplnkovej knižnice ComplexHeatmap vo forme kruhových grafov, za účelom porovnania rozdielov medzi jednotlivými bunkovými populáciami. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ECCB 2024 v Turku.

24.) 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 analyzované pomocou SPADE boli použité na vývoj klasifikátora strojového učenia určeného na zaraďovanie buniek do bunkových typov. Klasifikátor je založený na gradientových posilnených stromoch (XGBoost, gradient boosted trees), schopných predpovedať rôzne populácie buniek v CyTOF dátach s presnosťou približne 75 %. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ECCB 2024 v Turku.

25.) 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:	nie
Koordinátor:	Univerzita Komenského v Bratislave Lekárska fakulta
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 4618 €

Dosiahnuté výsledky:
Pripravili sme viacero modelov strojového učenia na analýzu RNA-seq dát získaných zo vzoriek pacientov s nádormi semenníkov. Použité boli modely tradičného strojového učenia (rozhodovacie stromy a random forest) a hlbokého učenia (neurálne siete). Na základe ich porovnania možno konštatovať, že tradičné metódy sú efektívnejšie ako algoritmy hlbokého učenia, najmä pri analýze tabulárnych dát génovej expresie. Tieto modely majú potenciál identifikovať nové onkologické biomarkery a zefektívniť individualizovaný prístup k liečbe pacientov. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ECCB 2024 v Turku.

26.) 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: 16251 €

Dosiahnuté výsledky:
V predchádzajúcej etape tohto grantového projektu sme pripravili viaceré konštrukty pre integráciu silného promótora kasOp* spolu s reverzne orientovaným génom rezistencie na apramycín (AprR) a

silným obojstranným terminátorom T5 pred viaceré biosyntetické alebo regulačné gény niekoľkých silentných biosyntetických génových klastrov (BGC) v genóme kmeňa S. lavendulae subsp. lavendulae CCM 3239. Jeden z nich (BGC2) obsahuje biosyntetické gény pre modulárnu polyketid syntetázu (PKS) typu I. Úspešne sme integrovali promótor kasOp* pred gén SLAV_02840 kódujúci transkripčný aktivátor rodiny LAL a gén SLAV_02776 kódujúci biosyntetický enzým PKS typu I v tomto klastri BGC2 a verifikované kmene S. lavendulae, kasOp::2840 a S. lavendulae, kasOp::2776 sme podrobili fenotypickej analýze (TLC, biochromatografia, HPLC), kde v prípade kmeňa S. lavendulae, kasOp::2840 dochádzalo k indukcii žltej látky inhibujúcej rast kvasiniek, ktorej spektrum, hmota a Rt hodnota na HPLC bola identická so štandardom streverténu A. Avšak v prípade kmeňa S. lavendulae, kasOp::2776 dochádzalo k indukcii žltej látky rovnako inhibujúcej rast kvasiniek oveľa účinnejšie než strevertén A, ktorej spektrum bolo podobné ako u streverténu A, avšak hmota a Rt hodnota na HPLC boli odlišné. Túto novú látku sme nazvali strevertén X. Optimalizovali sme purifikáciu tejto novej účinnej látky streverténu X použitím viacerých krokov preparatívnej HPLC na kolóne silice a reverznej fázy C18. Izolovaný produkt bol dostatočne čistý na účely stanovenia štruktúry pomocou NMR. Na partnerskom pracovisku Chemického ústavu SAV bola stanovená štruktúra streverténu X, ktorá bola podobná ako strevertén A, avšak karboxyová skupina bola nahradená metylovou skupinou. Uskutočnili sme bioinformatickú charakterizáciu biosyntézy Streverténu. Na základe tejto analýzy sme potvrdili štruktúru streverténu X a navrhli biosyntetickú dráhu tvorby oboch indukovaných produktov. Z tejto analýzy ako aj štruktúrnej analýzy je zrejmé že mutantný kmeň S. lavendulae, kasOp::2840 produkuje látku s hmotou identickou k streverténu A, avšak s rozdielnou polohou hydroxylových skupín, ktorú sme preto nazvali strevertén A2. Mutantný kmeň S. lavendulae, kasOp::2776 produkuje novú účinnejšiu látku strevertén X, u ktorej dochádza k náhrade karboxylu za metyl v polohe 14 z dôvodu absencie indukovanej expresie génu SLAV_02825, ktorý je potrebný pre finalizáciu biosyntézy streverténu A2, a preto dochádza k produkcii medziproduktu streverténu X. Tento predpoklad je založený na výsledkoch iných PKS I BGC, napríklad pre pimaricín, kde je homologická cytochróm P450 oxygenáza zodpovedná za túto modifikáciu metylovej skupiny na karboxylovú skupinu. Pripravili a optimalizovali sme nový systém syntetickej biológie založený na monocistronických jednotkách (kasOp*-RBS-gén-terminátor), umožňujúci ich postupné pripájanie do dlhých monocistronických syntetických génových klastrov. Tento systém sme verifikovali postupným klonovaním a pripájaním biosyntetických génov pre aromatické polyketidové antibiotikum landomycín, 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. Rovnako s použitím tohto systému sme postupne pripájali časti operónu biosyntetických génov z BGC pre polyketidovú protinádorovú látku mitramycín, kde po integrácii výsledného konštruktu pOri6-mtmPKSTIOIYQLOIIOIITIIXop do chromozómu S. coelicolor M1146 dochádzalo k produkcii medziproduktu mitramycínu, 4-demetylpremitramycinonu (4-DMPC). Po konjugácii ďalšieho konštruktu pOri12-mtmMI s mitramycínovým biosyntetickým génom lanMI, kódujúcom O-metyltransferázu, pod kontrolou promótora kasOp* dochádzalo ku prenosu metylu do polohy 4-OH u 4-DMPC za tvorby ďalšieho medziproduktu premitramycinónu (PMC). Pomocou tohto systému sme sa pokúsili verifikovať postupnú biosyntetickú dráhu tvorby aglykónu 4-DMPC u biosyntézy mitramycínu. Jednotlivé gény (mtmP, mtmK, mtmS, mtmQ, mtmY, mtmOI, mtmX, mtmTII, mtmOII) sme klonovali vo vektoroch pSBBR1,2,3,5,7. Po ich sekvenčnej verifikácii sme ich postupne klonovali a kombinovali do monocistronických klastrov v pripravenom integračnom vektore pOri6 umožňujúcom integráciu takýchto monocistronických klastrov do fágového attB integračného miesta pre PhiC31 v chromozóme heterologického kmeňa S. coelicolor M1146. Takýmto postupom sme pripravili výsledné integračné konštrukty až po finálny pOri6-mtmPKSQYOIXTIIOII, ktoré sme integrovali do chromozómu S. coelicolor M1146 a charakterizovali produkciu sekundárnych metabolitov po extrakcii v priebehu rastu na produkčnom tekutom médiu Bennet u štyroch reprezentatívnych klonov pre každý konštrukt. Avšak dochádzalo

iba k tvorbe prvého medziproduktu SEK15 po integrácii pOri6-mtmPKST5, obsahujúcom gény pre KS?, KS? a ACP. Pripojenie ďalších predpokladaných biosyntetických génov nemalo za následok produkciu mitramycínového aglykónu 4-DMPC. Takže predpokladaná biosyntetická dráha mitramycínu nie je správna. Tieto naše výsledky boli nezávisle potvrdené prácou Zabala a kol (2020), kde zistili kľúčovú úlohu nového génu mtmL, kódujúceho acyl-CoA ligázu, pri počiatočnom štádiu biosyntézy mitramycínu. Skutočne aj naše predchádzajúce výsledky pri operónovom konštrukte pOri6-mtmPKSTIOIYQLOIIOIITIIXop, kde dochádzalo k tvorbe mitramycínového aglykónu 4-DMPC potvrdzujú tento predpoklad, keďže v tomto prípade bol tento kľúčový gén mtmL prítomný. Našimi viacerými experimentami sme preto overili tento nový systém syntetickej biológie založený na monocitronických transkripčných jednotkách, čo umožňuje jeho použitie pri biosyntéze nových a modifikovaných sekundárnych metabolitov s potenciálne novými biologickými vlastnosťami.

Publikácie
1, Javorova R, Rezuchova B, Feckova L, Novakova R, Csolleiova D, Kopacova M, Patoprsty V, Opaterny F, Sevcikova B, Kormanec J: A new synthetic biology system for investigating the biosynthesis of antibiotics and other secondary metabolites in streptomycetes. J. Biotech. 392 (2024) 128-138.

Účasť na zahraničných konferenciách
1, Kormanec J, Novakova R, Feckova L, Matulova M, Csolleiova D, Opaterny F, Javorova R, Rezuchova B, Sevcikova B: Striking features and complex regulation of polyketide antibiotic auricin from Streptomyces lavendulae subsp. lavendulae CCM 3239. Invited speaker. Conference handbook, The 20th Annual Congress of International Drug Discovery Science and Technology, Osaka, Japan, 20.5-24.5 2024, p. 141.

27.) Účinok patologických mutácií a posttranslačných modifikácií na funkcie mitochondriálnej procesujúcej peptidázy nevyhnutnej pre transport do mitochondrií *(The effect of pathologic mutations and post-translational modifications on the functions of mitochondrial processing peptidase essential for transport to mitochondria)*

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.7.2024 / 30.6.2028
Evidenčné číslo projektu:	APVV-23-0407
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15048 €

Dosiahnuté výsledky:
Navrhli sme plazmidové konštrukty pre expresiu podjednotiek ľudskej mitochondriálnej procesujúcej peptidázy (MPP) – MPP? a MPP?, a konštrukt ľudskej malátdehydrogenázy (MDH2) obsahujúci mitochondriálnu presekvenciu. Všetky konštrukty sme úspešne nadprodukovali v bunkách E. coli BL21 pGKJE8. MDH2 slúžiacu ako substrát pre aktívnu MPP sme exprimovali ako proteín obsahujúci histidínovú kotvu a následne izolovali pomocou afinitnej chromatografie na niklovej kolóne a gélovej filtrácie. Podjednotky MPPα a MPPβ sme navrhli tak, aby obsahovali samoodštepujúcu sa značku, tzv. SP-tag. Vďaka nej dochádza k odštiepeniu purifikačnej kotvy na samotnej kolóne už počas izolácie a elúcii čistého proteínu neobsahujúceho žiadne zvyškové

aminokyseliny. Z pilotného experimentu sme týmto spôsobom získali podjednotku MPPα v dostatočnom množstve a čistote, na ktorej sme pomocou nanoDSF optimalizovali zloženie izolačného roztoku. Optimalizovaný purifikačný roztok využijeme pri ďalších izoláciách oboch študovaných podjednotiek MPP v nasledujúcom období.

28.) 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: 20000 €

Dosiahnuté výsledky:
Dokončili sme štúdium vplyvu fosforylácie N-koncovej domény ľudskej LON proteázy na jej štruktúru a funkciu. Kombináciou biochemických štúdií a štúdií kryo-elektrónovej mikroskopie sme ukázali, že fosforylácie Tyr186 a Tyr394 výrazne znižujú všetky aktivity LON bez ovplyvnenia jej schopnosti viazať substráty alebo narušenia jej terciárnej štruktúry. Kryo-EM mapy boli získané pre Y186E, Y186F, pCMF186, Y394E a Y394F s rozlíšením v rozsahu od 2,9 do 8,5 A. Výrazné zníženie v aktivitách LON proteázy sa pozoruje aj v prítomnosti polyfosfátu, ktorého množstvo je výrazne zvýšené v rakovinových bunkách. Naše výsledky by mohli významne prispieť k lepšiemu pochopeniu prestavieb mitochondriálnych funkcií v rakovinovych bunkách.

KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - KRAJČOVIČOVÁ, Veronika - PINKAS, Matyáš - STOJKOVIČOVÁ, Barbora - HAVALOVÁ, Henrieta - LUKÁČOVÁ, Veronika - KOHÚTOVÁ, Lenka - KOŠŤAN, Július - MARTINÁKOVÁ, Lucia - BARÁTH, Peter - NOVÁČEK, Jiří - ZOLL, Sebastian - KERE?CHE, Sami - KUTEJOVÁ, Eva** - PEVALA, Vladimír**. Polyphosphate and tyrosine phosphorylation in the N-terminal domain of the human mitochondrial Lon protease disrupts its functions. In Scientific Reports, 2024, vol. 14, iss. 1, art. no. 9923. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS).

29.) 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	0

inštitúcií:
Čerpané financie: APVV: 33806 €

Dosiahnuté výsledky:
V uplynulom roku sa nám podarilo splniť dva významné míľniky:

1. V rámci plnenia cieľov pri liečení COVIDU-19. Keďže COVID-19 stále predstavuje značnú hrozbu, je prospešné poskytnúť terapeutické doplnky proti nej. V tomto ohľade glykoproteín laktoferín (LF) a laktofericín (LFC), prírodný bioaktívny peptid, ktorý sa získa štiepením z N-konca LF, sú mimoriadne zaujímavé, pretože sa ukázalo, že oba redukujú infekcie SARS-CoV-2. V uplynulom roku sme pomocou biochemických a biofyzikálnych metód odhalili, že LF sa priamo viaže na S-proteín SARS-CoV-2. Stanovili sme termodynamické a kinetické charakteristiky tvorby komplexu a zmapovali zúčastnené vzájomné väzbové miesta v tejto interakcii, menovite N-terminálnej oblasti LF a receptor viažucej domény LF S-proteín (RBD). Tieto výsledky môžu nielen vysvetliť mnohé z pozorovaných ochranných účinkov LF a LFC pri infekcii SARS-CoV-2, ale môžu byť tiež nápomocné pri navrhovaní účinných a nákladovo efektívnych doplnkových nástrojov v manažmente COVID-19. Táto práca bola publikovaná - 10.3390/ph17081021

2. V rámci riešenia projektu regulácie homeostázy. Difúzne parenchymálne pľúcne choroby (DPLD) pokrývajú heterogénne typy pľúcnych porúch. Spomedzi mnohých patologických fenotypov je pľúcna fibróza najničivejšia a predstavuje charakteristický znak idiopatickej pľúcnej fibrózy (IPF). Napriek zlej prognóze, ktorú prináša pľúcna fibróza, neexistujú žiadne špecifické diagnostické biomarkery pre počiatočný vývoj tohto smrteľného stavu. Hlavným znakom pľúcnej fibrózy je nekontrolovaná aktivácia pľúcnych fibroblastov na myofibroblasty spojená s ukladaním extracelulárnej matrice a stratou pľúcnej štruktúry aj funkcie. Tu sme použili túto zvláštnu vlastnosť, aby sme identifikovali špecifické biomarkery pľúcnej fibrózy v tekutinách bronchoalveolárnej laváže (BALF). Primárne ľudské fibroblasty MRC-5 boli aktivované BALF odobratým od pacientov s klinicky diagnostikovanou pľúcnou fibrózou; aktivované fibroblasty sa potom dôkladne premyli a ďalej inkubovali, aby sa umožnila sekrécia. Potom sa sekretómy analyzovali hmotnostnou spektrometriou. Týmto spôsobom bol identifikovaný proteín CD44; následne boli BALF všetkých pacientov s DPLD pozitívne testované na prítomnosť CD44 pomocou ELISA. Nakoniec biochemické a biofyzikálne charakterizácie odhalili exozomálny pôvod CD44. Analýza krivky prevádzkových charakteristík prijímača potvrdila CD44 v BALF ako špecifický a spoľahlivý biomarker IPF a iných typov DPLD sprevádzaných pľúcnou fibrózou. Tieto výsledky boli koncom roka prijaté do tlače - https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2024.1479458/abstract

30.) Vývin listových pascí mäsožravých rastlín rosičky: Zdroj unikátnych hydroláz s možnosťami využitia v biotechnológiách *(Developing leaf traps of carnivorous sundews: Source of unique hydrolases with a high potential in biotechnology)*

Zodpovedný riešiteľ:	Jana Libantová
Zodpovedný riešiteľ v organizácii SAV:	Vladena Bauerová
Trvanie projektu:	1.9.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0448
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biológie rastlín a biodiverzity SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1

Čerpané financie: APVV: 7760 €

Dosiahnuté výsledky:
V prvom roku riešenia projektu sme vzhľadom k pripravovanej analýze sekvenčných dát do nášho výpočtového systému inštalovali referenčný RefSeq genóm Drosera spatulata, ktorý v súčasnej podobe pozostáva z 24 tis. scafoldov. Taktiež sme biofyzikálne charakterizovali, vykryštalizovali a určili kryštálovú štruktúru glukozooxidázy, enzýmu štiepiaceho glukózu s vysokou katalytickou rýchlosťou, ktorého N-terminálna doména má 24 % identitu s chitínázou z Drosera bináta.

31.) 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 inštitúcií:	0
Čerpané financie:	APVV: 34281 €

Dosiahnuté výsledky:
Publikácia:
MAJTÁN, Juraj**. In vitro testing of honey quality and biological functionality: underestimated elements in the clinical testing of honey. In Frontiers in Nutrition, 2024, vol. 11, art. no. 1433786. (2023: 4 - IF, Q2 - JCR, 0.828 - SJR, Q1 - SJR). ISSN 2296-861X.

Vedecké výstupy v odborných periodikách:
Godočiková J, Hrnčiarová M, Deglovič J, Bučeková M, Majtán J. In vitro antibakteriálna aktivita medu voči patogénom v prostredí umelých slín. In: Včelár (odborný mesačník Slovenského zväzu včelárov a združenia Slovenská včela. – Bratislava (Slovensko) : Slovenský zväz včelárov. – ISSN 0139-6064). Roč. 98, č. 7 (2024), s. 300-305.

Malobická L, Godočíková J, Bučeková M, Majtán J. Antibakteriálna aktivita medu v prostredí rany. In Dymák, č. 7+8, (2024), s. 36-40.

32.) Systém na identifikáciu škvŕn na historickom papieri založený na umelej inteligencii a bioinformatike pre konzervovanie a restaurovanie *(AI and Bioinformatics-Based Stain Identification System for Historic Paper Conservation and Restoration)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0250
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: APVV: 7412 €

Dosiahnuté výsledky:
Systém umelej inteligencie (AI) na identifikáciu mikrobiálnych kmeňov na konzerváciu a reštaurovanie historického papiera ponúka špičkový prístup
k zvyšovaniu úsilia o konzerváciu využitím umelej inteligencie na detekciu mikróbov, klasifikáciu a hodnotenie rizík.

33.) 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: 15000 €

Dosiahnuté výsledky:
Analyzované bolo zloženie bakteriálnych konzorcií čerstvej a fermentovanej srvátky pri výrobe syrovej bryndze na báze surového ovčieho mlieka od 8 malých a stredných výrobcov.
Výsledky ukázali dominanciu laktokokov alebo streptokokov, s 10_na_3 – 10_na_8 CFU/ml Lactobacillus sensu lato vo všetkých vzorkách srvátky, vrátane Lacticaseibacillus paracasei/casei, Lactiplantibacillus plantarum, Lentilactobacillus parabuchneri, Lactobacillus helveticus, Lactobacillus diolivorans,
Levilactobacillus brevis, Limosilactobacillus fermentum, Lactobacillus delbrueckii, Lactobacillus gasseri a Lentilactobacillus otakiensis.
Podaná publikácia: Nikola Klištincová, Janka Koreňová, Zuzana Rešková, Zuzana Čaplová, Alexandra Burdová, Zuzana Farkas, Martin Polovka, Hana Drahovská, Domenico Pangallo, Tomáš Kuchta: Bacterial consortia of ewes´ whey in the production of bryndza cheese in Slovakia.

34.) 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 tretieho roku riešenia projektu sme pripravili expresné konštrukty na expresiu Mmi1 a TCTP

proteínov v E. coli s SP-tagom, ktorý sa následne sám odštiepi a je možné pripraviť natívny proteín bez tagu. Kryštalizovali sme a merali difrakcie kryštálov Mmi1 proteínu na synchrotróne v Hamburgu. Pre potreby kryštalizácie bol Mmi1 proteín nametylovaný pre zníženie jeho solubility a bol použitý na skríning vhodných kryštalizačných podmienok. Exprimovali a izolovali sme fosforylované verzie Mmi1 a TCTP proteínu s vylepšeným ortogonálnym systémom (expresné bunky aj plazmidy) pre in-vitro charakterizáciu a väzbu na mitochondrie. Uskutočnili sme pulldown a interakciu Mmi1 proteínu s kvasinkovými mitochondriami z delta Mmi1 kmeňa pre identifikáciu interakčných partnerov. Bol publikovaný článok v Scientific Reports:
Jana Vojtová, Martin Čapek, Sabrina Willeit, Tomáš Groušl, Věra Chvalová, Eva Kutejová, Vladimír Pevala, Leoš Shivaya Valášek, Mark Rinnerthaler (2024). A fully automated morphological analysis of yeast mitochondria from wide-field fluorescence images. Scientific Reports 14: 30144, 10.1038/s41598-024-81241-0

35.) Štúdia uskutočniteľnosti mikrobiologickej degradácie poly- a perfluóralkylu (PFAS) *(Feasibility study for the microbiological degradation of poly- and perfluoroalkyl (PFAS) PFAS_Free)*

Zodpovedný riešiteľ:	Andrea Puškárová
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0382
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15000 €

Dosiahnuté výsledky:
PFAS (per- a polyfluóralkylové látky) sú perzistentné znečisťujúce látky, vďaka čomu je ich biodegradácia náročná, ale čoraz dôležitejšia pre sanáciu životného prostredia.
Snažili sme sa vybrať mikroorganizmy na degradáciu PFAS s ohľadom na ich enzymatickú schopnosť rozkladať stabilné väzby uhlík-fluór charakteristické pre PFAS.
Publikácia:
Nuccetelli, P., Maisto, F., Kraková, L., Grilli, A., Takáčová, A., Šišková, A.O. and Pangallo, D., 2024. Evaluation of Microbial Degradation of Thermoplastic and Thermosetting Polymers by Environmental Isolates. Coatings, 14(8), p.982.

36.) Črevná mikrobiota a diabetická periferálna neuropatia: účinok cemtirestatu v potkaňom modeli 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: 20000 €

Dosiahnuté výsledky:
Nový viacciel'ový liek, cemtirestat, inhibujúci aldózoreduktázu (ALR2), bol vyvinutý na prevenciu sekundárnych diabetických komplikácií a pôsobí ako antioxidant proti procesom súvisiacim s hyperglykémiou.
Tento projekt hodnotil vplyv cemtirestatu na zloženie črevného mikrobiómu a jeho vplyv na metabolizmus liečiv a terapeutickú účinnosť u samcov Zucker diabetických mastných (ZDF) „štíhlych" potkanov.
Analýza mikrobiómov odhalila obohatenie prospešných baktérií ako Blautia a Faecalibacterium u liečených potkanov.
Štruktúra mikrobiálnej komunity sa zreteľne neoddeľovala u liečených skupín od neliečených, ale časom sa objavili rozdiely.
Podaná publikácia: Marek Lepáček, Pavol Boďo, Marta Šoltésová Prnová, Mária Bučková, Domenico Pangallo, Jelena Pavlović: Impact of novel Aldose Reductase Inhibitor drug on Gut Microbiota Composition and Metabolic Health in ZDF 'Lean' Rats. Chemico-Biological Interactions.

37.) 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:
Pokračovali sme v systematickom vyhľadávaní pôdnych húb z rôznych lokalít pralesov, ktoré produkujú najmä antioxidačné enzýmy a to katalázy alebo peroxidázy. Podarilo sa nám zabezpečiť vysoký stupeň heterológnej expresie katalázy 2 z huby Chaetomium thermophilum var. dissitum ako aj bifunkčnej katalázy-peroxidázy z tejto huby. Podarilo sa nám aj naklonovať kompletný gén hem-tiolátovej peroxidázy ktorý bol potvrdený nielen v Badínskom pralese ale tiež v pohorí Vtáčnik a je unikátny pre celý karpatský región. Výsledky vyšli v publikácii Biologia (Springer) 79:2253-2264. Odpovedajúci proteín so železitým iónom v hemovej prostetickej skupine môže mať veľmi atraktívne vlastnosti v oblasti oxyfunkcionalizácie organických molekúl t.j. v zelenej chémii.

Programy: DoktoGrant

38.) In silico analýza ?-amylázovej rodiny GH57 zameraná na identifikáciu nových skupín hypotetických proteínov s nekompletnou katalytickou mašinériou

Zodpovedný riešiteľ:	Adam Poláček
Trvanie projektu:	1.1.2024 / 1.12.2024
Evidenčné číslo projektu:	
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoctoGrant SAV: 856 €

Dosiahnuté výsledky:

39.) Mechanizmus asymetrického delenia v modelovom systéme Bacillus subtilis

Zodpovedný riešiteľ:	Silvia Žarnovičanová
Trvanie projektu:	1.1.2024 / 31.12.2024
Evidenčné číslo projektu:	APP0510
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoctoGrant SAV: 2000 €

Dosiahnuté výsledky:
1) Detekovali sme potenciálnych SpoIIE interakčných partnerov bakteriálnym dvojhybridným systémom (BACTH).
2) Použili sme in vitro metód interakcie proteín-proteín, pull-down testov, testov vylučovacej chromatografie na potvrdenie proteínových interakcií detekovaných BACTH.
3) Lokalizácia a spoločná lokalizácia novo identifikovaných interagujúcich proteínov pomocou fluorescenčnej mikroskopie a mikroskopie s vysokým rozlíšením.

Programy: Európsky fond regionálneho rozvoja (EFRR)

40.) Zvýšenie energetickej úspory o 2 stupňe z B na A0a realizácia debarierizačných opatrení prioritne s využitím zariadenívyužívajúcich Obnoviteľne zdroje energii, vrátane zariadení, ktoré sú súčasťou systému zásobovania energiou verejnej budovy SAV-OZE

Zodpovedný riešiteľ:	Vladimír Pevala
Trvanie projektu:	1.7.2023 / 1.7.2026
Evidenčné číslo projektu:	NFP401201B493
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

41.) Zvýšenie energetickej úspory o 2 stupňe z C na A1 a realizácia debarierizačných opatrení vo verejnej budove SAV

Zodpovedný riešiteľ:	Vladimír Pevala
Trvanie projektu:	1.11.2022 / 30.6.2026
Evidenčné číslo projektu:	NFP401201FIX3
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: IMPULZ

42.) 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:	Impulz SAV: 160389 €

Dosiahnuté výsledky:
Dve PhD študentky a jeden vedecký pracovník nastúpili do pracovnej skupiny Jána Jamroškoviča a zapojili sa do riešenia projektu IMPULZ . Hlavným cieľom projetu v roku 2024 bola prvá fáza projektu - indetifikácia a následná charakterizácia DNA G4 štruktúr v Bacillus subtilis. Využili sa bioinformatické metódy, metódy molekulárnej biológie a biofyzikálne metódy.
Následne sa pripravili špeciálne bakteriálne kmene s umelými promótormi využitím metód syntetickej biológie.

Programy: Plán obnovy EÚ

43.) Úloha ľudskej mitochondriálnej LON proteázy v prejavoch syndrómu CODAS *(The Role of Human Mitochondrial LON Protease in CODAS Syndrome)*

Zodpovedný riešiteľ:	Nina Kunová
Trvanie projektu:	1.9.2024 / 30.8.2026
Evidenčné číslo projektu:	09I03-03-V04-00580
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Plán obnovy EÚ: 2517 €

Dosiahnuté výsledky:
Navrhli sme tri plazmidové konštrukty obsahujúce gény kódujúce ľudskú mitochondriálnu LON proteázu (LONP1) mutovanú na dvoch konkrétnych miestach – G683D, R705C, alebo oboch súčasne. Tieto miesta boli nájdené celoexómovým sekvenovaním (WES) vo vzorkách 8-ročného chlapca postihnutého CODAS syndrómom, zriedkavým multisystémovým ochorením charakterizovaným mutáciami v géne LONP1. Plazmidové konštrukty sme klonovali do expresného systému E. coli a exprimovali ako proteínové verzie značené HIS-kotvou. Doposiaľ sme uskutočnili prvotné experimenty izolácie mutovaných LON proteáz pomocou afinitnej chromatografie a gélovej filtrácie. V súčasnosti optimalizujeme izolačný protokol tak, aby sme získali všetky tri mutované LON proteázy v dostatočnom množstve a čistote pre ďalšie experimenty.

44.) 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:	Plán obnovy: 14547 €

Dosiahnuté výsledky:
Keďže COVID-19 stále predstavuje značnú hrozbu, je prospešné poskytnúť terapeutické doplnky proti nej. V tomto ohľade glykoproteín laktoferín (LF) a laktofericín (LFC), prírodný bioaktívny peptid, ktorý sa získa štiepením z N-konca LF, sú mimoriadne zaujímavé, pretože sa ukázalo, že oba redukujú infekcie SARS-CoV-2. V uplynulom roku sme pomocou biochemických a biofyzikálnych metód odhalili, že LF sa priamo viaže na S-proteín SARS-CoV-2. Stanovili sme termodynamické a kinetické charakteristiky tvorby komplexu a zmapovali zúčastnené vzájomné väzbové miesta v tejto interakcii, menovite N-terminálnej oblasti LF a receptor viažucej domény LF S-proteín (RBD). Tieto výsledky môžu nielen vysvetliť mnohé z pozorovaných ochranných účinkov LF a LFC pri infekcii SARS-CoV-2, ale môže byť tiež nápomocný pri navrhovaní účinných a nákladovo efektívnych doplnkových nástrojov v manažmente COVID-19. Táto práca bola publikovaná - 10.3390/ph17081021

45.) 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 EU: 12662 €

Dosiahnuté výsledky:
Počas tohto monitorovacieho obdobia RNDr Tetiana Moskaletsa s ďalšími kolegami pod vedením Dr. V. Leksu objasnili molekulárny mechanizmus a štrukturálne determinanty inhibičného pôsobenia mliečneho glykoproteínu laktoferínu na infekciu vírusom SARS-CoV-2 a zistili schopnosť tohto glykoproteínu viazať sa na S-proteín (Spike) SARS- Vírus CoV-2 (výsledky výskumu boli zverejnené v auguste 2024).
Lactoferrin Binds through Its N-Terminus to the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. Pharmaceuticals DOI: 10.3390/ph17081021
Podielali sme sa na objave diagnostických biomarkerov včasného rozvoja pľúcnej fibrózy, najmä transmembránového glykoproteínu CD44, ktorý je užitočný na včasnú diagnostiku tohto závažného ochorenia a častej komplikácie pri tzv. long covid (tieto výsledky boli prijaté na zverejnenie koncom roka 2024).

The bronchoalveolar lavage fluid CD44 as a marker for pulmonary fibrosis in diffuse parenchymal lung diseases. Front. Immunol. DOI: 10.3389/fimmu.2024.1479458
Na nami vyvinutom in vitro modeli pľúcnej fibrózy testovala množstvo rastlinných glykozidových flavonoidov s cieľom nájsť potenciálne liečivá (výsledky výskumu boli prezentované v septembri 2024 na medzinárodnej vedeckej konferencii o inhibičnej schopnosti hesperidínu v procese fibrózy).
Oral presentation at the 9th Global Conference on Plant Science and Molecular Biology, 16-18.9.2024, Rome, Italy

Programy: PostdokGrant

46.) Odstraňovanie per- a polyfluóralkylových látok (PFAS): skúmanie potenciálnych stratégií biodegradácie *(Removal of per- and polyfluoroalkyl substances (PFAS): investigation of potential biodegradation strategies)*

Zodpovedný riešiteľ:	Jelena Pavlović
Trvanie projektu:	1.7.2024 / 31.12.2025
Evidenčné číslo projektu:	APD0058
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	PostDokGrant SAV: 6000 €

Dosiahnuté výsledky:
V tomto projekte je hodnotená degradácia PFAS (per- a polyfluóralkylových látok) s využitím mikroorganizmov a ich enzymatických schopností.
Mikroorganizmy boli izolované z priemyselných (charakterizovaných vysokou koncentráciou PFAS) a komunálnych čističiek odpadových vôd.
Hlavným cieľom projektu je kombinácia mikrobiologických (kultivácia a selekcia mikroorganizmov) a molekulárnych (vysokovýkonné
sekvenovanie) metódy s cieľom zvýšiť poznatky o biodegradácii PFAS a následne umožniť rozvoj prístupov zameraných na ich biodegradáciu/bioremediáciu.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB01 POLČIC, P. - MENTEL, M. - NOSEK, J. - NEBOHÁČOVÁ, Martina - KOLAROV, Jordan - TOMÁŠKA, L. - ZEMAN, Igor - MIKUŠOVÁ, Katarína - HORVÁTH, Anton - GAVURNÍKOVÁ, Gabriela - ZEMANOVÁ, Júlia - KOLLÁROVÁ, M - LEKSA, Vladimír - KORDULÁKOVÁ, Jana - ŠUBÍK, Július - BHATIA-KISSOVA, Ingrid - CHOVANČÍKOVÁ, Petra - HEGEDÜSOVÁ, Eva - LICHANOVÁ, Hana - ČERMÁKOVÁ, Petra. Klasické experimenty v biochémii : o odkrývaní molekulárnej podstaty života. Recenzenti: Yvetta Gbelská, Peter Griač. Bratislava : Univerzita Komenského, 2023. 315 s. ISBN 978-80-22-5594-0

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 BABULIC, Patrik - CEHLÁR, Ondrej - ONDROVIČOVÁ, Gabriela - MOSKALETS, Tetiana - ŠKRABANA, Rostislav** - LEKSA, Vladimír**. Lactoferrin Binds through Its N-Terminus to the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. In Pharmaceuticals, 2024, vol. 17, art. no. 1021. (2023: 4.3 - IF, Q1 - JCR, 0.845 - SJR, Q1 - SJR). ISSN 1424-8247. Dostupné na: https://doi.org/10.3390/ph17081021 (APVV-16-0452 : Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (PPIS). APVV-20-0513 : Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19. APVV-21-0479 : Malé štruktúrované motívy ako regulátory patofyziológie prirodzene neusporiadaného tau proteínu. VEGA č. 2/0020/17 : Ľudský mliečny bioaktívny glykoproteín laktoferín ako regulátor homeostázy. VEGA 2/0152/21 : Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie)

ADCA02 BALIOVÁ, Martina - JURSKÝ, František**. Manganese- and zinc-coordinated interaction of Schistosoma japonicum glutathione S-transferase with neurotransmitter transporters GlyT1 and GAT3 in vitro. In Experimental Parasitology, 2024, vol. 259, art. no. 108721. (2023: 1.4 - IF, Q3 - JCR, 0.407 - SJR, Q3 - SJR). ISSN 0014-4894. Dostupné na: https://doi.org/10.1016/j.exppara.2024.108721 (VEGA č. 2/0126/21 : Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmitérov)

ADCA03 BALIOVÁ, Martina - JURSKÝ, František**. Common structural features in some of the sequentially distant neurotransmitter transporters N-termini. In Journal of Structural Biology, 2024, vol. 216, iss, art. no. 108137. (2023: 3 - IF, Q2 - JCR, 1.771 - SJR, Q1 - SJR). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2024.108137 (VEGA č. 2/0126/21 : Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmitérov)

ADCA04 FARAHANI, Mohammad Mahdi Hosseinieh - HAJIEBRAHIMI, Maryam - ALAMDARI, Sanaz** - NAJAFZADEHKHOEE, Aliasghar - KHOUNSARAKI, Gholamreza Mohammadi - AGHEB, Maria - KOSTIUK, Vladyslav -

PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - PANGALLO, Domenico - HVIZDOS, Pavol - MIRZAEE, Omid**. Synthesis and antibacterial activity of silver doped zinc sulfide/chitosan bionanocomposites: A new frontier in biomedical application. In International Journal of Biological Macromolecules, 2024, vol. 280, art. no. 135934. (2023: 7.7 - IF, Q1 - JCR, 1.245 - SJR, Q1 - SJR). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2024.135934

ADCA05 HODOROVÁ, Michaela - JANEČEK, Štefan**. The family GH126 – its relatedness to and differentiation from GH8 and GH48 including the intermediary sequences. In Food Bioscience, 2024, vol. 62, art. no. 105064. (2023: 4.8 - IF, Q1 - JCR, 0.959 - SJR, Q1 - SJR). ISSN 2212-4292. Dostupné na: https://doi.org/10.1016/j.fbio.2024.105064

ADCA06 HRINOVA, K. - DLAPOVA, J. - KUBALA, Bohuš - KORMANOVÁ, Ľubica - LEVARSKI, Z. - STRUHÁRŇANSKÁ, Eva - TURŇA, Ján - STUCHLÍK, S. Production of Reverse Transcriptase and DNA Polymerase in Bacterial Expression Systems. In Bioengineering, 2024, vol. 11, iss. 7, art. no. 727. (2023: 3.8 - IF, Q2 - JCR, 0.627 - SJR, Q3 - SJR). ISSN 2306-5354. Dostupné na: https://doi.org/10.3390/bioengineering11070727 (APVV-21-0227 : Rastlinné kalpaíny a ich molekulárny mechanizmus kontroly bunkovej identity/Plant calpains and their molecular mode of action in cell fate control)

ADCA07 JAVOROVÁ, Ráchel - ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - NOVÁKOVÁ, Renáta - OPATERNÝ, Filip - CSÖLLEIOVÁ, Dominika - FECKOVÁ, Ľubomíra - KORMANEC, Ján**. Multiple SigB homologues govern the transcription of the ssgBp promoter in the sporulationespecific ssgB gene in Streptomyces coelicolor A3(2). In Research in Microbiology, 2024, vol. 175, iss. 5-6, art. no. 104201. (2023: 2.5 - IF, Q3 - JCR, 0.583 - SJR, Q2 - SJR). ISSN 0923-2508. Dostupné na: https://doi.org/10.1016/j.resmic.2024.104201 (VEGA č. 2/0026/20 : Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces)

ADCA08 JAVOROVÁ, Ráchel - REŽUCHOVÁ, Bronislava - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - CSÖLLEIOVÁ, Dominika - KOPÁČOVÁ, Mária - PÄTOPRSTÝ, Vladimír - OPATERNÝ, Filip - ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján**. A new synthetic biology system for investigating the biosynthesis of antibiotics and other secondary metabolites in streptomycetes. In Journal of Biotechnology, 2024, vol. 392, pp. 128-138. (2023: 4.1 - IF, Q2 - JCR, 0.741 - SJR, Q2 - SJR). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2024.07.007 (APVV-19-0009 : Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie)

ADCA09 KAJSIKOVÁ, Mária - KAJSIK, Michal - BOCÁNOVÁ, Lucia - PÁPAYOVÁ, Kristína - DRAHOVSKÁ, H. - BUKOVSKÁ, Gabriela. Endolysin EN572-5 as an alternative to treat urinary tract infection caused by Streptococcus agalactiae. In Applied Microbiology and Biotechnology, 2024, vol. 108, iss. 1, art. no. 79. (2023: 3.9 - IF, Q2 - JCR, 0.957 - SJR, Q1 - SJR). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-023-12949-8 (VEGA č. 2/0079/22 : Príprava mutantných lytických a replikačných proteínov bakteriofágov a ich antibakteriálny potenciál)

ADCA10 KLIŠTINCOVÁ, Nikola - PIN, Lorenzo - PUŠKÁROVÁ, Andrea - GIANNINO, Donato - BUČKOVÁ, Mária - LAMBREVA, Maya D. - MANFREDINI, Andrea - CANFORA, Luciano - PANGALLO, Domenico - PINZARI, Flavia. From farm to fork: Fungal and bacterial contaminants and their diagnostics in the production steps

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ADCA12 LEKSA, Vladimír**. Piccadilly full of people and other foul things : On heroism and perversion in the post-pandemic era. In EMBO reports, 2024, vol. 25, iss. 6, pp. 2520-2524. (2023: 6.5 - IF, Q1 - JCR, 3.193 - SJR, Q1 - SJR). ISSN 1469-221X. Dostupné na: https://doi.org/10.1038/s44319-024-00143-4 (VEGA 2/0152/21 : Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie. APVV-20-0513 : Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19)

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ADCA17 MUCHOVÁ, Katarína - POSPÍŠIL, J. - KALOCSAIOVÁ, Evelína - CHROMÍKOVÁ, Zuzana - ŽARNOVIČANOVÁ, Silvia - ŠANDEROVÁ, H. - KRÁSNY, L. - BARÁK, Imrich**. Spatio-temporal control of asymmetric septum positioning during sporulation in Bacillus subtilis. In Journal of Biological Chemistry, 2024, vol. 300, iss. 6, art. no. 107339. (2023: 4 - IF, Q2 - JCR, 1.766 - SJR, Q1 - SJR). ISSN 0021-9258. Dostupné na: https://doi.org/10.1016/j.jbc.2024.107339 (VEGA č. 2/0001/21 : Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. APVV-18-0104 : Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry)

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ADCA20 SARDZIKOVÁ, S. - ANDRIJKOVA, Kristina - ŠVEC, P. - BEKE, Gábor - KĽUČÁR, Ľuboš - MINÁRIK, Gabriel - BIELIK, V. - KOLENOVÁ, Alexandra - ŠOLTÝS, K. Gut diversity and the resistome as biomarkers of febrile neutropenia outcome in paediatric oncology patients undergoing hematopoietic stem cell transplantation. In Scientific Reports, 2024, vol. 14, iss. 1, art. no. 5504. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-024-56242-8

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ADCA22 URBÁNIKOVÁ, Ľubica - JANEČEK, Štefan**. Trehalose synthases from the subfamily GH13_16 involved in α-glucan biosynthesis – a focus on their maltokinase domain. In International Journal of Biological Macromolecules, 2024, vol. 268, part 2, art. no. 131680. (2023: 7.7 - IF, Q1 - JCR, 1.245 - SJR, Q1 - SJR). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2024.131680 (VEGA č. 2/0146/21 : Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...?)

ADCA23 VOJTOVÁ, Jana - ČAPEK, M. - WILLEIT, Sabrina - GROUŠL, Tomáš - CHVALOVÁ, Věra - KUTEJOVÁ, Eva - PEVALA, Vladimír - VALÁŠEK, Leoš Shivaya - RINNERTHALER, Mark. A fully automated morphological analysis of yeast mitochondria from wide-field fluorescence images. In Scientific Reports, 2024, vol. 14, iss. 1, art. no. 30144. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.

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ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 BLAŽÍČKOVÁ, Michaela - BUČKOVÁ, Mária - KOZICS, Katarína**. Characterization of the effects of thymol derivatives on colorectal cancer spheroids. In Neoplasma, 2024, vol. 71, no. 2, pp. 193-200. (2023: 2 - IF, Q3 - JCR, 0.588 - SJR, Q2 - SJR). ISSN 0028-2685. Dostupné na: https://doi.org/10.4149/neo_2024_231222N658 (VEGA 2/0055/20 : Novosyntetizované deriváty tymolu: vzťah medzi štruktúrou a biologickou aktivitou na in vitro modeli čreva. VEGA 2/0022/24 : Vplyv výživových doplnkov na oxidačný stres vo folikulárnej tekutine u neplodných žien)

ADDA02 KUBALA, Bohuš - FERIANC, Peter - CHOVANOVÁ, Katarína - ZÁMOCKÝ, Marcel**. In silico analysis of a heme-thiolate peroxidase gene discovered in an ectomycorrhizal fungus of Carpathian primeval forest: implications for biotechnological applications. In Biologia, 2024, vol. 79, no. 7, pp. 2253-2264. (2023: 1.4 - IF, Q3 - JCR, 0.361 - SJR, Q2 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-024-01709-2 (VEGA č. 2/0012/22 : Dešifrovanie ancestrálnych sekvencií hémových kataláz pre rekonštrukciu ich evolúcie najmä v patogénoch a výber jedinečných kandidátov pre syntetickú biológiu. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách)

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMA01 BALIOVÁ, Martina - JURSKÝ, František**. Correlation of calpain sensitivity, Bradford assay instability, and electrophoretic mobility in phosphomimetic mutants of GlyT2 N-terminus. In Biochemistry and Biophysics Reports, 2024, vol. 38, art. no. 101734. (2023: 2.3 - IF, Q3 - JCR, 0.584 - SJR, Q2 - SJR). ISSN 2405-5808. Dostupné na: https://doi.org/10.1016/j.bbrep.2024.101734 (VEGA č. 2/0126/21 : Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmitérov)

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ADMA03 HAMED, Mohamed Belal - BUSCHE, T. - SIMOENS, K. - CARPENTIER, Sebastien - KORMANEC, Ján - VAN MELLAERT, L. - ANNÉ, J. - KALINOWSKI, J. - BERNAERTS, K. - KARAMANOU, S. - ECONOMOU, A. Enhanced protein secretion in reduced genome strains of Streptomyces lividans. In Microbial Cell Factories, 2024, vol. 23, no. 1, art. no. 13. (2023: 4.3 - IF, Q1 - JCR, 1.048 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: https://doi.org/10.1186/s12934-023-02269-x

ADMA04 CHEN, Wei-Yu - LEE, Chun-Pao - PAVLOVIĆ, Jelena - PANGALLO, Domenico - WU, Jer-Horng**. Characterization of microbiome, resistome, mobilome, and virulome in anoxic and oxic wastewater treatment processes in Slovakia and Taiwan. In Heliyon, 2024, vol. 10, iss. 19, art. no. e38723. (2023: 3.4 - IF, Q1 - JCR, 0.617 - SJR, Q1 - SJR). ISSN 2405-8440. Dostupné na: https://doi.org/10.1016/j.heliyon.2024.e38723

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ADMA06 NOVÁKOVÁ, Slavomíra - BARANOVIČOVÁ, Eva - HATOKOVÁ, Zuzana - BEKE, Gábor - PÁLEŠOVÁ, Janka - ZÁHUMENSKÁ, Romana - BAĎUROVÁ, Bibiána - JANÍČKOVÁ, Mária - STRNÁDEL, Ján - HALAŠOVÁ, E. - ŠKOVIEROVÁ, Henrieta. Comparison of Various Extraction Approaches for Optimized Preparation of Intracellular Metabolites from Human Mesenchymal Stem Cells and Fibroblasts for NMR-Based Study. In Metabolites, 2024, vol. 14, iss. 5, art. no. 268. (2023: 3.4 - IF, Q2 - JCR, 0.903 - SJR, Q2 - SJR). ISSN 2218-1989. Dostupné na: https://doi.org/10.3390/metabo14050268

ADMA07 PERESH, Yevheniy-Yuliy - ŠOLTYS, Katarína - KĽUČÁR, Ľuboš - BEKE, Gábor - KOVÁČOVÁ, Mária - ŠPITÁLSKY, Zdenko - ŠPITALSKÁ, Eva**. Carbon nanodots as photosensitizer in photodynamic inactivation of Rickettsia slovaca. In Photodiagnosis and Photodynamic Therapy, 2024, vol. 50, art. no. 104402. (2023: 3.1 - IF, Q2 - JCR, 0.718 - SJR, Q2 - SJR). ISSN 1572-1000. Dostupné na: https://doi.org/10.1016/j.pdpdt.2024.104402 (VEGA 2/0021/21 : Diverzita vektormi prenášaných patogénnych a nepatogénnych mikroorganizmov a potenciálna terapia nimi spôsobených zoonotických ochorení. APVV-23-0325 : Eliminácia kliešťami prenášaných infekcií bez použitia antibiotík)

ADMA08 ŠIMONOVIČOVÁ, Alexandra - PAUDITŠOVÁ, Eva - NOSALJ, Sanja - OTEULIEV, Medetbay - KLIŠTINCOVÁ, Nikola - MAISTO, Francesca - KRAKOVÁ, Lucia - PAVLOVIĆ, Jelena - ŠOLTYS, Katarína - PANGALLO, Domenico. Fungal and Prokaryotic Communities in Soil Samples of the Aral Sea Dry Bottom in Uzbekistan. In Soil Systems, 2024, vol. 8, iss. 2, art. no. 58. (2023: 2.9 - IF, Q2 - JCR, 0.737 - SJR, Q1 - SJR). ISSN 2571-8789. Dostupné na: https://doi.org/10.3390/soilsystems8020058

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AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 BABULIC, Patrik - LEKSA, Vladimír. BN/SDS-PAGE v druhom rozmere ako nástroj pre pozorovanie proteínovej interakcie. In Študentská vedecká konferencia Prif UK 2024 : Zborník recenzovaných príspevkov. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, 2024, pp. 37-42. ISBN 978-80-223-5822-4. Dostupné na internete: https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_PriF_UK_2024.pdf (Študentská vedecká konferencia Prif UK 2024)

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2. [1.1] ISTICATO, R. Bacterial Spore-Based Delivery System: 20 Years of a Versatile Approach for Innovative Vaccines. In BIOMOLECULES. JUN 2023, vol. 13, no. 6. Dostupné na: https://doi.org/10.3390/biom13060947, Registrované v: WOS

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4. [1.1] SAGGESE, A. - BACCIGALUPI, L. - DONADIO, G. - RICCA, E. - ISTICATO, R. The

Bacterial Spore as a Mucosal Vaccine Delivery System. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, JUL 2023, vol. 24, no. 13. Dostupné na: https://doi.org/10.3390/ijms241310880, Registrované v: WOS

ADMA43 VOZÁRIKOVÁ, V. - KUNOVÁ, Nina - BAUER, Jacob - FRANKOVSKÝ, Jozef - KOTRASOVÁ, Veronika - PROCHÁZKOVÁ, K. - DŽUGASOVÁ, Vladimíra - KUTEJOVÁ, Eva - PEVALA, Vladimír - NOSEK, J. - TOMAŠKA, Ľubomír**. Mitochondrial HMG-Box Containing Proteins: From Biochemical Properties to the Roles in Human Diseases. In Biomolecules : Open Access Journal, 2020, vol. 10, no. 1193. (2019: 4.082 - IF, Q2 - JCR, 1.614 - SJR, Q1 - SJR). ISSN 2218-273X. Dostupné na: https://doi.org/10.3390/biom10081193

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2. [1.1] KOZHUKHAR, N. - ALEXEYEV, M.F. 35 Years of TFAM Research: Old Protein, New Puzzles. In BIOLOGY-BASEL. JUN 2023, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/biology12060823, Registrované v: WOS

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ADMA44 ZÁMOCKÝ, Marcel - TAFER, H. - CHOVANOVÁ, Katarína - LOPANDIC, Ksenija - KAMLÁROVÁ, Anna - OBINGER, C. Genome sequence of the filamentous soil fungus Chaetomium cochliodes reveals abundance of genes for heme enzymes from all peroxidase and catalase superfamilies. In BMC Genomics, 2016, vol. 17, p. 763. (2015: 3.867 - IF, Q1 - JCR, 2.348 - SJR, Q1 - SJR). ISSN 1471-2164. Dostupné na: https://doi.org/10.1186/s12864-016-3111-6

Citácie:

1. [1.1] SCOCOZZA, M.F. - VIEYRA, F. - BATTAGLINI, F. - MARTINS, L.O. - MURGIDA, D.H. Electrochemical Actuation of a DyP Peroxidase: A Facile Method for Drastic Improvement of the Catalytic Performance. In ACS CATALYSIS. ISSN 2155-5435, MAY 18 2023, vol. 13, no. 11, p. 7437-7449. Dostupné na: https://doi.org/10.1021/acscatal.3c01530, Registrované v: WOS

2. [1.1] WANG, Z. - KIM, W.Y. - WANG, Y.W. - YAKUBOVICH, E. - DONG, C.H. - TRAIL, F. - TOWNSEND, J.P. - YARDEN, O. The Sordariomycetes: an expanding resource with Big Data for mining in evolutionary genomics and transcriptomics. In FRONTIERS IN FUNGAL BIOLOGY. JUN 30 2023, vol. 4. Dostupné na: https://doi.org/10.3389/ffunb.2023.1214537, Registrované v: WOS

ADMA45 ZÁMOCKÝ, Marcel** - KAMLÁROVÁ, Anna - MARESCH, D. - CHOVANOVÁ, Katarína - HARICHOVÁ, Janka - FURTMULLER, P.G. Hybrid heme peroxidases from rice blast fungus magnaporthe oryzae involved in defence against oxidative stress. In Antioxidants, 2020, vol. 9, no. E655. (2019: 5.014 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). (2020 - WOS, SCOPUS). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox9080655

Citácie:

1. [1.1] PARK, J. - LEE, H.H. - MOON, H. - LEE, N. - KIM, S. - KIM, J.E. - LEE, Y. - MIN, K. - KIM, H. - CHOI, G.J. - LEE, Y.W. - SEO, Y.S. - SON, H. A combined transcriptomic and physiological approach to understanding the adaptive mechanisms to cope with oxidative stress in Fusarium graminearum. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, OCT 2023, vol. 11, no. 5. Dostupné na: https://doi.org/10.1128/spectrum.01485-23, Registrované v: WOS

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

ADMB01 CSÁDEROVÁ, Lucia - DEBREOVÁ, M. - RADVÁK, Peter - STANO, Matej - VREŠTIAKOVÁ, Magdaléna - KOPÁČEK, Juraj - PASTOREKOVÁ, Silvia - ŠVASTOVÁ, Eliška. The effect of carbonic anhydrase IX on focal contacts during cell spreading and migration. In Frontiers in Physiology, 2013, vol. 4, no. 271, p. 1-12. (2012: 0.840 - SJR, Q2 - SJR). (2013 - SCOPUS). ISSN 1664-042X. Dostupné na: https://doi.org/10.3389/fphys.2013.00271 (APVV-0658-11 : Karbonická

anhydráza IX ako funkčný komponent nádorovej progresie: úloha v epitelovo-mezenchýmovej tranzícii a v prenose medzibunkových signálov. APVV-0108-10 : Identifikácia molekulových dráh riadených prostredníctvom hypoxia-indukovanej anhydrázy IX kyseliny uhličitej v nádorových bunkách. VEGA 2/0130/11 : Úloha karbonickej anhydrázy IX v bunkovej migrácii ako zložke metastatickej kaskády)

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ADMB02 MARTINOVIČOVÁ, M. - JANEČEK, Štefan**. In silico analysis of the α-amylase family GH57: eventual subfamilies reflecting enzyme specificities. In 3 Biotech, 2018, vol. 8, p. 307. (2017: 0.511 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-018-1325-9

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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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ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNB01 PLANÝ, Matej - KUCHTA, T. - ŠOLTÝS, K. - SZEMEŠ, T. - PANGALLO, Domenico - SIEKEL, P. Metagenomic analysis of Slovak bryndza cheese using next-generation 16S rDNA amplicon. In Nova Biotechnologica et Chimica, 2016, vol. 15, no. 1, p. 23-34. (2015: 0.168 - SJR, Q4 - SJR). ISSN 1338-6905. Dostupné na: https://doi.org/10.1515/nbec-2016-0003

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1. [1.2] ERHARDT, Magnolia Martins - OLIVEIRA, Wemerson de Castro - FRÖDER, Hans - MARQUES, Pedro Henrique - OLIVEIRA, Maria Beatriz Prior Pinto - RICHARDS, Neila Silvia Pereira dos Santos. Lactic Bacteria in Artisanal Cheese: Characterization through Metagenomics. In Fermentation, 2023-01-01, 9, 1, pp. Dostupné na: https://doi.org/10.3390/fermentation9010041, Registrované v: SCOPUS

2. [1.2] LEE, Eun Seo - PARK, Seon Yeong - KIM, Chang Gyun. Feasibility test anaerobically enhancing methane yield under the injection of hydrogen and carbon dioxide. In Renewable Energy, 2023-08-01, 212, pp. 761-768. ISSN 09601481. Dostupné na: https://doi.org/10.1016/j.renene.2023.05.104, Registrované v: SCOPUS

BDCA Odborné práce v zahraničných karentovaných časopisoch impaktovaných

BDCA01 DEGLOVIC, Juraj - MAJTÁNOVÁ, Nora - BUČEKOVÁ, Marcela - MAJTÁN, Juraj**. The quality and biological functionality of honey used for clinical purposes is important. In Acta Paediatrica, 2023, vol. 112, iss. 2, pp. 321-322. (2022: 3.8 - IF, Q1 - JCR, 0.98 - SJR, Q1 - SJR). ISSN 0803-5253. Dostupné na: https://doi.org/10.1111/apa.16605

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1. [1.1] NISHIMURA, T. - MUTA, H. - HOSAKA, T. - UEDA, M. Honey suppressed night coughs due to its sweetness not its antibacterial properties. In ACTA PAEDIATRICA. ISSN 0803-5253, FEB 2023, vol. 112, no. 2, p. 323-323. Dostupné na: https://doi.org/10.1111/apa.16606, Registrované v: WOS

BDCA02 KORMANEC, Ján. Bacterial Regulatory Proteins. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 6854. (2021: 6.208 - IF, Q1 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms23126854 (APVV-19-0009 : Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie. VEGA č. 2/0026/20 : Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces)

Citácie:

1. [1.1] SAM-ON, M.F.S. - MUSTAFA, S. - HASHIM, A.M. - YUSOF, M.T. - ZULKIFLY, S. - ROSLAN, M.A.H. Determination of prebiotic utilisation capability of potential probiotic Bacillus velezensis FS26 through in silico and in vitro approaches. In FOOD BIOSCIENCE. ISSN 2212-4292, JUN 2023, vol. 53. Dostupné na: https://doi.org/10.1016/j.fbio.2023.102566, Registrované v: WOS

BDDA Odborné práce v domácich karentovaných časopisoch impaktovaných

BDDA01 JANEČEK, Štefan** - BRUMER, Harry - HENRISSAT, B. News, trends, and challenges in Carbohydrate-Active enZymes. In Biologia, 2023, vol. 78, iss. 7, pp. 1739-1740. (2022: 1.5 - IF, Q4 - JCR, 0.34 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-023-01449-9

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1. [1.1] KAMMOUN, I. - HEZBRI, K. - SBISSI, I. - CALASANZ, M.D.M. - KLENK, H.P. - GTARI, M. - GHODHBANE-GTARI, F. Blastococcus carthaginiensis sp. nov., isolated from a monument sampled in Carthage, Tunisia. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. ISSN 1466-5026, 2023, vol. 73, no. 11. Dostupné na: https://doi.org/10.1099/ijsem.0.006178, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Genetika modelových organizmov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra genetiky

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

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: 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: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Aplikovaná biológia

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Základy imunológie
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Aplikovaná biológia

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12

Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

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

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

Mgr. Vladimír Leksa, PhD.
Názov semestr. predmetu: Zaklady molekularnej imunologie
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, katedra Biochemie PriFUK

Mgr. Filip Mareček, PhD.
Názov semestr. predmetu: Funkčná analýza proteínov a modelovanie
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Bioanorganická chémia
Počet hodín za semester: 20
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: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra anorganickej chémie

Semestrálne cvičenia:

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Aplikovaná biológia II
Počet hodín za semester: 30
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Aplikovaná biológia

Mgr. Terézia Hromádková
Názov semestr. predmetu: Cvičenia z genetiky
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra genetiky, PRIF UK

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

Mgr. Kamila Cholvadtová
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 24

Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie - Oddelenie biológie

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

Mgr. Filip Opaterný
Názov semestr. predmetu: Practicals from Molecular Biology
Počet hodín za semester: 28
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Molekulárna Biológia

Mgr. Silvia Žarnovičanová
Názov semestr. predmetu: Cvičenia z molekulárnej biológie
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Semináre:

Jacob Bauer, PhD.
Názov semestr. predmetu: Pokročilé metódy v genetike - Kryštalizácia bielkovín
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Genetiky

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Pokročilé metódy v genetike - Kryštalizácia bielkovín
Počet hodín za semester: 5
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Genetiky

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Pokročilé metódy v genetike - nanoDSF
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Genetiky

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 5
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Enviromentálna molekulárna biológia a genomika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Aplikovaná biológia

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Základy imunológie
Počet hodín za semester: 6
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Aplikovaná biológia

Mgr. Filip Mareček, PhD.
Názov semestr. predmetu: Funkčná analýza proteínov a modelovanie
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Ústav biológie a biotechnológie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Bioanorganická chémia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra anorganickej chémie

Terénne cvičenia:

Individuálne prednášky:

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Pokročilé prednášky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

RNDr. Ján Kormanec, DrSc.
Názov semestr. predmetu: Antibiotika
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Biochemie

Ing. Eva Kutejová, DrSc.
Názov semestr. predmetu: Vybran0 kapitoly z genetiky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra genetiky

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Apiterapia - medicínske využitie včelích produktov
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: Beta glukány – výživový doplnok alebo liek?
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

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Prírodné terapie v liečbe rôznych ochorení I.
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

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**
Česko					Henrieta Havalová	3
					Gabriela Ondrovičová	2
Nemecko					Nikola Klištincová	4
					Francesca Maisto	4
					Domenico Pangallo	4
					Vladimír Pevala	3
					Andrea Vetráková	58
Poľsko					Henrieta Havalová	3
					Vladimír Pevala	3
Rakúsko	Marcel Zámocký	3				
Španielsko	Bohuš Kubala	21			Domenico Pangallo	3
	Marcel Zámocký	3				
Švédsko					Ľuboš Kľučár	3
Taliansko	Domenico Pangallo	4			Mária Bučková	7
	Jelena Pavlović	4			Jelena Pavlović	5
					Andrea Puškárová	7
Počet vyslaní spolu	**5**	**35**			**14**	**109**

(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
Česko					Jan Keil	5
Španielsko	Dr. Elvira Romero	5				
	Prof. Dr. Francesco Javier Ruiz-Duenas	3				
Taliansko	Lorenzo Pin	4			Lorenzo Pin	11
	Maya Dimova Lambreva	4				
Počet prijatí spolu	**4**	**16**			**2**	**16**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	CBM 15	Michaela Hodorová	4
		Štefan Janeček	4
		Filip Mareček	4
		Adam Poláček	4
		Ľubica Urbániková	4
Česko	FEBS-PC 2024	Ľubica Urbániková	5
Fínsko	ECCB2024	Gábor Beke	6
		Milan Hučko	6
Grécko	COST BeSafeBeeHoney conference	Juraj Majtán	5
	Extremophiles 2024	Štefan Janeček	6
		Filip Mareček	6
Japonsko	iddst2024	Ján Kormanec	8
Poľsko	EMBO Workshop	Vladimír Pevala	5
	Oxizymes 2024	Marcel Zámocký	4
Portugalsko	Innovations and State of Art in Alzheimer´s	Marcel Zámocký	2
Veľká Británia	EWMA 2024	Juraj Majtán	5
Spolu	**10**	**16**	**78**

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

Skratky použité v tabuľke C:

CBM 15 - Carbohydrate Bioengineering Meeting 15
COST BeSafeBeeHoney conference - 1st International Conference - BeSafeBeeHoney CA22105

ECCB2024 - 23rd European Conference on Computational Biology
EMBO Workshop - EMBO Workshop - Molecular biology of mitochondrial gene maintenance and expression
EWMA 2024 - European wound management association conference
Extremophiles 2024 - Extremophiles 2024
FEBS-PC 2024 - 10th FEBS Practical Course: Advanced Methods in Macromolecular Crystallization
iddst2024 - The 20th Annual Congress of International Drug Discovery Science and Technology
Innovations and State of Art in Alzheimer´s - 5th Edition of Innovations and State of the Art in Alzheimer´s & Dementia
Oxizymes 2024 - 11th Meeting on Oxizymes in Lublin 2024

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Imrich Barák, DrSc.		PB	Ako sa nestratiť civilizovanému svetu: úloha vzdelania a vedy v dnešnej spoločnosti	Beseda v rámci konferencie Žijem vedu 2024	20.12.2024
RNDr. Imrich Barák, DrSc.		TL	FASCINUJÚCE FUNGOVANIE BAKTÉRIÍ NÁM MÔŽE POMÁHAŤ AJ ŠKODIŤ	Aktuality SAV	13.12.2024
RNDr. Imrich Barák, DrSc.		PB	Popularizačná prednáška - Vedatour	V klube Pink Whale	18.6.2024
Mgr. Vladena Bauerová, PhD.	Jacob A. Bauer	TL	Článok: Vedci, ktorí použili AI na „prelomenie kódu“ takmer všetkých proteínov, získali Nobelovu cenu za chémiu	https://hnonline.sk/science/biologia-a-chemia/96173292-vedci-ktori-pouzili-ai-na-prelomenie-kodu-takmer-vsetkych-proteinov-ziskali-nobelovu-cenu-za-ch	9.10.2024
Mgr. Marcela Bučeková, PhD.		RO	Veda SK	Rozhlas	9.1.2024
RNDr. Gabriela Bukovská, CSc.		TL	Boj proti streptokokom: Slovenskí vedci vyvinuli účinný antimikrobiálny preparát	aktuality.sk https://www.aktuality.sk/clanok/85jqniV/boj-proti-streptokokom-slovenski-vedci-vyvinuli-ucinny-antimikrobialny-preparat/	6.11.2024
RNDr. Gabriela Bukovská, CSc.		TV	Liečbu streptokokov antibiotikami môže nahradiť endolyzín	Diskusia v relácii TASR TV Zdravie, https://www.teraz.sk/zdravie/bukovska/842356-clanok.html?utm_source=teraz&utm_medium=organic&utm_campaign=click&	15.12.2024
RNDr. Gabriela Bukovská, CSc.		TL	Náhrada za antibiotiká? Slovenskí vedci vyvinuli špeciálny proteín	Denik SME, https://primar.sme.sk/c/23410016/slovenski-vedci-vytvorili-novy-protein-ktory-je-ucinny-v-boji-proti-streptokokom.html	12.11.2024
RNDr. Gabriela Bukovská, CSc.		TV	Novinka v liečbe streptokokových infekcií	RTVS rozhovor - živý vstup v AKTUÁLNE :24, https://www.rtvs.sk/televizia/archiv/20110/499332	7.11.2024
RNDr. Gabriela		IN	Nový proteín pomôže	SAV - Aktuality	6.11.2024

Bukovská, CSc.			pri infekciách spôsobených streptokokmi	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=12360	
Ing. Juraj Majtán, DrSc., MBA, FIFST		RO	Beekeeping and honey making in Slovakia	Radio Slovak International	1.7.2024
Ing. Juraj Majtán, DrSc., MBA, FIFST		TL	Naše tekúté zlato	Revue 50+	11.12.2024
Ing. Juraj Majtán, DrSc., MBA, FIFST		TL	Prídeme o včelí med?	týždenník Téma 43/2024	18.10.2024
Ing. Juraj Majtán, DrSc., MBA, FIFST		RO	Rozhovor s ...	Radio Slovensko	27.12.2024
Ing. Juraj Majtán, DrSc., MBA, FIFST		TV	Univerzum	TV Spark	20.12.2024
Ing. Juraj Majtán, DrSc., MBA, FIFST	J. Godočíková, M. Hrnčiarová, M. Bučeková, J. Deglovič	TL	In vitro antibakteriálna aktivita medu voči bakteriálnym patogénom v prostredí umelých slín	Včelár 07/2024	1.7.2024
Ing. Juraj Majtán, DrSc., MBA, FIFST	L. Malobická, J. Godočiková, M. Bučeková	TL	Antibakteriálna aktivita v prostredí rany	Dymák 7+8	1.7.2024
Dr. Domenico Pangallo, DrSc.	Andrea Puškárová	IN	DEGRADÁCIA „VEČNÝCH CHEMIKÁLIÍ“ POMOCOU MIKROORGANIZMOV	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=12405	19.11.2024
Dr. Domenico Pangallo, DrSc.	Nikola Klištincová	IN	HOTOVÉ ŠALÁTY A ICH BEZPEČNÉ SERVÍROVANIE	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=12494	18.12.2024

[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 2024

Domáce ocenenia

Ocenenia SAV

Kormanec Ján
Čestná plaketa SAV Dionýza Blaškoviča za zásluhy v biologických vedách
Oceňovateľ: SAV

Iné domáce ocenenia

Medzinárodné ocenenia

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

ČASŤ B

Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o hospodárení organizácie

za rok 2024

19. Základné informácie o hospodárení organizácie

(v zmysle §20, ods. 1 zákona č. 431/2002 Z. z. o účtovníctve)

19.1 Prehľad základných finančných ukazovateľov

	K 31. 12. 2024	k 31. 12. 2023
Finančné výsledky (v euro)		
Aktíva	1280203,22	1621914,62
Neobežný majetok	617030,96	720751,85
Dlhodobý nehmotný majetok		2394
Dlhodobý hmotný majetok	617030,96	718357,85
Dlhodobý finančný majetok		
Obežný majetok	654690,57	888963,09
Zásoby	348,48	491,76
Dlhodobé pohľadávky		
Krátkodobé pohľadávky	3486,35	544477,2
Finančné účty	650855,74	343994,13
Časové rozlíšenie	8481,69	12199,68
Pasíva	1280203,22	1621914,62
Vlastné imanie		
Základné imanie	68 430,96	68 430,96
Nevysporiadaný HV minulých rokov	71321,7	69613,25
Výsledok hospodárenia za účtovné obdobie	6975,67	1708,45
Záväzky	172989,6	71673,38
Zúčtovanie medzi subjektami VS (2022)		
Dlhodobé záväzky	12019,13	22312,52
Krátkodobé záväzky	160970,47	49360,86
Bankové úvery a iná výpomoci a pôžičky		
Časové rozlíšenie	960 485,29	1410488,58
Výkaz ziskov a strát		
Výsledok hospodárenia z hlavnej činnosti pred		
Tržby z predaja tovarov a služieb	16113,91	13065,89
Iné ostatné výnosy	4998,2	1643,98
Dotácie	3161040,6	2809396,2
Transfery (2021)		
Prijaté príspevky od právnických osôb	6298,08	8767,6
Celkové náklady účtovná trieda 5.	3187638,05	2837248,76
Výsledok hospodárenia pred zdanením		
Výsledok hospodárenia pred zdanením	7169,14	1981,31
Výsledok hospodárenia po zdanení	6975,67	1708,45
Pomerové ukazovatele		
.. Rentabilita aktív (ROA)		
Rentabilita vlastného imania (ROE)		

Prehľad základných finančných ukazovateľov - výdavky organizácie

Ďalšie tabuľkové informácie v zmysle §20, ods. 1, písm. a) zákona č. 431/2002 Z. z. o účtovníctve.

Tabuľka Výdavky organizácie (skutočnosť k 31. 12. 2024 v €)

Typ organizácie (v. v. i.)		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	3163277,25	2540936,54	483 477	138 863,71	80,32
z toho: mzdy (610)	1648933,18	1474802,68	96850,42	77 280,08	89,44
vedecká výchova štipendiá (640)	192973,7	180 667,17		12 306	93,62
poistné a príspevok do poisťovní (620)	579910,48	517 771,68	34304,34	27 834,46	89,29
tovary a služby (630)	565532,98	330 458,29	213 715,24	21 359,45	58,43
transfery partnerom projektov (640)	175927,44	37 236,72	138 607	83,72	21,16
2. Kapitálové výdavky	55580,05	48064		7516,05	86,48
z toho: obstarávanie kapitálových aktív	55580,05	48 064		7516,05	86,48
kapitálové transfery					

19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia

a) Udalosti osobitného významu po 31. 12. 2024 z hľadiska hospodárenia organizácie
b) Predpokladaný budúci vývoj organizácie v roku 2025
c) Náklady na činnosť v oblasti výskumu a vývoja
d) Návrh na rozdelenie zisku alebo vyrovnanie straty
e) Ostatné informácie súvisiace s hospodárením v. v. i.
f) Informácia o konsolidácii účtovníctva organizácie

Po uzavretí účtovného obdobia kalendárneho roka 2024 nenastali udalosti zásadného významu z hľadiska hospodárenia organizácie. Organizácia bude pokračovať v svojich aktivitách v súlade so zakladacou listinou a hlavným predmetom činnosti. V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoja. O rozdelení zisku alebo vyrovnávaní strát rozhoduje správna rada v spolupráci s dozornou radou organizácie, v súlade so zákonom č. 243/2017 Z. z. o verejnej výskumnej inštitúcii. Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.

Ďalšie tabuľkové informácie doplnené textovými informáciami, v zmysle §20, ods. 1, písm. b-h zákona č. 431/2002 Z. z. o účtovníctve.

19.2. Zdroje financovania organizácie

Tabuľka 19b Zdroje financovania organizácie (skutočnosť k 31. 12. 2024 v €)

Typ organizácie (v. v. i.)		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	2540936,54	48 064	1474802,68	517 771,68	
z toho: VEGA	134568				
MVTS výskumné projekty	2667				
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	7017			473,20	
Vedecká výchova (štipendiá)	180 667,17				
OTAS (630)	23460,60				
2. ŠF EÚ vr. fin. zo ŠR	113 546,26		67 096,08	24 210,76	
3. medzinárodné grantové projekty	20 119,28		9 207,00	1 406,10	
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	483 477		96850,42	34304,34	138 607
z toho: APVV	483 477		96850,42	34304,34	138 607
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	24 063,91				
z toho: príjmy z prenájmu	6356,40				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	17 707,51				

Informácie o hospodárení – analýza výkazov účtovnej závierky

Slovenská akadémia vied je zriaďovateľom Ústavu molekulárnej biológie SAV, v. v. i.. Ústav molekulárnej biológie SAV bol zriadený 1.1.1976 a to vyčlenením Biologického ústavu SAV založeného v r. 1957. Vedecká činnosť ústavu je zameraná na základný výskum v oblasti molekulárnej biológie. V súčasnosti sa na vybraných modeloch prokaryontov a eukaryontov študuje organizácia, štruktúra a expresia génov kódujúcich hydrolytické enzýmy, vzťah medzi štruktúrou a

funkciou enzýmov, molekulárno-genetické aspekty metabolizmu nukleových kyselín a kontrola génovej expresie vo vzťahu k diferenciácii buniek.

Od 1.1.2022 zmenil právnu formu na verejnú výskumnú inštitúciu a názov sa zmenil na Ústav molekulárnej biológie SAV, v. v. i. so sídlom Dúbravská cesta 21 845 51 Bratislava 45, Slovenská republika. Účtovná jednotka **molekulárnej biológie SAV, v. v. i.** od 1.1.2022 zmenila právnu formu z príspevkovej organizácie na verejnú výskumnú inštitúciu. Vzhľadom k tejto skutočnosti účtovná jednotka od 1.1.2022 postupuje pri vedení účtovníctva podľa Opatrenia MF SR č. MF/24342/2007-74 zo dňa 14.11.2007 v znení neskorších predpisov, ktorým sa ustanovujú podrobnosti o postupoch účtovania a účtovej osnove pre účtovné jednotky, ktoré nie sú založené alebo zriadené na účel podnikania. Pri zostavovaní individuálnej účtovnej závierky účtovná jednotka postupuje podľa Opatrenia MF SR z 30. októbra 2013 č. MF/17616/2013-74.

Pri prechode v roku 2022 z príspevkovej organizácie na verejnú výskumnú inštitúciu bolo vytvorené základné imanie vo výške 68 430,96,- €, ktoré bolo vytvorené z hodnoty pozemkov a umeleckých diel.

Na základe uvedenej zmeny sa účtovalo podľa zásad účtovania neziskových organizácii. Zmeny účtovných zásad a zmeny účtovných metód s uvedením dôvodu týchto zmien a vyčíslením ich vplyvu na finančnú hodnotu majetku, záväzkov, základného imania a výsledku hospodárenia účtovnej jednotky.

Verejné výskumné inštitúcie vedú účtovníctvo v súlade s Postupmi účtovania pre účtovné jednotky nezriadené alebo nezaložené na účel podnikania v zmysle konsolidovaného znenia právneho predpisu: „Opatrenie Ministerstva financií Slovenskej republiky zo 14. novembra 2007 č. MF/24342/2007-74“. Zmeny účtovných metód a zásad nastali z dôvodu usmernení MF SR vydaných počas roka 2024 k tomuto predpisu, ktoré správca kapitoly SAV premietol do Pokynov pre všetky VVI, z dôvodu jednotného vykazovania a dodržiavania zásad opatrnosti vzhľadom ku konsolidovanej účtovnej závierke, ktorú správca kapitoly zostavuje.

Usmernenie č. MF/006583/2024-74 zo dňa 23.1.2024

- V zmysle tohto usmernenia verejné výskumné inštitúcie, ktoré majú uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie účtujú o pohľadávke voči poskytovateľovi dotácie na ročnej báze. Všetky zaúčtované pohľadávky o pridelení dotácií „ prísľuby“ na nasledujúce roky boli v roku 2024 odúčtované, čím sa znížila celkové hodnota majetku organizácie.
- Pri dodržaní akruálneho princípu v rámci účtovného obdobia a vykázania nákladov a výnosov z titulu dotácie a jej použitia v rámci príslušného účtovného obdobia, bude VVI účtovať predpis dotácie na strane MD 346 a na strane Dal účtu 384. Následne v priebehu účtovného obdobia v časovej a vecnej súvislosti s účtovaním nákladov bude zúčtovávať účet 384 do výnosov na účte 691 – Dotácie.

Usmernenie č. MF/008411/2024-74 zo dňa 08.3.2024

- V zmysle usmernenia č. MF/24342/2007-74“ verejné výskumné inštitúcie, ktoré účtujú o refundačných dotáciách, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach, ak sa takáto refundačná dotácia nepoužije v období, v ktorom bola prijatá, VVI je v súlade s §45 ods. 8 opatrenia povinná ju časovo rozlíšiť a preúčtovať prostredníctvom účtu 384 – Výnosy budúcich období.
- Nakoľko refundácie nie sú vlastným zdrojom, ale transferom, ktorý je VVI pri jeho následnom používaní povinná uvádzať na mesačnej báze vo výkazoch FIN-12 a súčasne zahrnúť do tabuľky č. 191 odsúhlasovacieho formulára konsolidačného balíka, bude VVI účtovať tieto dotácie na účte 384 – Výnosy budúcich období a následne v časovej a vecnej súvislosti s účtovaním nákladov ich bude zúčtovávať na účte 691 – Dotácie.

SÚVAHA

Súvaha poskytuje ucelený prehľad o aktívach a pasívach účtovnej jednotky za rok 2024. Celková hodnota aktív vykázaná v súvahe sa rovná hodnote pasív a je vo výške **1 280 203,22 €.**

Celková suma aktív k 31.12.2024 v hodnote **1 280 203,22 €** ma nasledujúce členenie:

Aktíva	Bežné účtovné obdobie
NEOBEŽNÝ MAJETOK SPOLU (netto)	**617 030,96**
Dlhodobý nehmotný majetok	0,00
Dlhodobý hmotný majetok	617 030,96
Dlhodobý finančný majetok	0,00
OBEŽNÝ MAJETOK SPOLU (netto)	**654 690,57**
Zásoby	348,48
Dlhodobé pohľadávky	0,00
Krátkodobé pohľadávky	3 486,35
Finančné účty	650 855,74
ČASOVÉ ROZLÍŠENIE SPOLU	**8 481,69**
Náklady budúcich období	**8 481,69**
Príjmy budúcich období	0,00
MAJETOK SPOLU	**1 280 203,22**

Aktíva tvorí **neobežný majetok**, ktorý zahŕňa výlučne **dlhodobý hmotný majetok (DHM**) v celkovej hodnote **617 030,96,-** € netto. Tvoria ho prevažne stavby (021) v hodnote 324 416,84,- € netto, ďalej samostatné hnuteľné veci (022) v hodnote 214 586,80,- € netto a v menšej hodnote pozemky 63 632,74,- € a umelecké diela spolu za 14 394,58,-€.

Ďalšou významnou skupinou aktív je **obežný majetok** v hodnote **654 690, 57,-** €. V rámci obežného majetku sú významné skupiny :

- **krátkodobé pohľadávky** – jedinú časť tvoria pohľadávky voči odberateľom (311) v hodnote 3 486,35,- €. Ďalšiu časť krátkodobých pohľadávok tvoria pohľadávky (335) v hodnote 81,75 -€, ktoré vyplývajú z nákupu PHM. Všetky pohľadávky sú v lehote splatnosti.
- **finančné účty**, kde najvýznamnejšia hodnota prislúcha stavu bankových účtov v hodnote 650 855,74,- €.
- v skupine **časové rozlíšenie** sú vykázané hodnoty v rámci **nákladov budúcich období** (381) a to v hodnote 8 481,69,- €, kde významná položka vo výške 3 326,57,- € aktualizácie softvéru prístroja a licenčné poplatky softvérov prístrojov. V rámci nákladov budúcich období ide o časové rozlíšenie nákladov na poistenie majetku, časové rozlíšenie nákladov na licencie, predplatné a iné menej významné položky**.**
- Drobný nehmotný majetok do 2 400,- €, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, sa účtuje do nákladov na účet 518 – Ostatné služby.
- Drobný hmotný majetok do 1 700 ,- €, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, účtuje sa do nákladov na účet 501 – Spotreba materiálu. Tento sa vedie v operatívnej evidencii. - drobný hmotný majetok, ktorého obstarávacia cena je vyššia ako 500,- ,- € a nižšia ako 1 700 ,- €.
- V roku 2024 bol zakúpený dlhodobý majetok – projektové dokumentácie pre modernizáciu a rekonštrukciu budov ÚMB SAV, v.v.i. v celkovej sume 37 580,05,- €, Nákup strojov,

prístrojov, zariadení, techniky s príslušenstvom v celkovej sume 18 000,- € v rámci projektu IMPULZ . Žiaden dlhodobý majetok v roku 2024 nebol vyradený.

Celková suma pasív k 31.12.2024 v hodnote **1 280 203,22 €** ma nasledujúce členenie:

Pasíva	Bežné účtovné obdobie
VLASTNÉ IMANIE	**146 728,33**
Imanie a fondy	68 430,96
Fondy tvorené zo zisku	0,00
Nevysporiadaný výsledok hospodárenia minulých rokov	71 321,7
Výsledok hospodárenia za účtovné obdobie	6 975,6
ZÁVÄZKY	**172 989,6**
Rezervy	0,00
Dlhodobé záväzky	12 019,13
Krátkodobé záväzky	160 970,47
ČASOVÉ ROZLÍŠENIE SPOLU	**960 485,29**
Výdavky budúcich období (383)	0,00
Výnosy budúcich období krátkodobé (384 AÚ)	432 363,60
Výnosy budúcich období dlhodobé (384 AÚ)	528 121,69
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLÍŠENIA	**1 280 203,22**

V rámci pasív účtovná jednotka vykázala **vlastné imanie** v celkovej hodnote **146 728,33**,-€. Z toho najvyššiu hodnotu dosahuje nevysporiadaný výsledok hospodárenia minulých rokov (428) v sume **71 321,70,- €**, ďalej je to výsledok hospodárenia za bežné účtovné obdobie **6 975,67,-€** a hodnota základného imania (411) **68 430,96,- €.**

Ďalšou významnou skupinou pasív sú **záväzky** v hodnote **172 989,6,-** €. Členia sa na dlhodobé v hodnote 12 019,13,- € a krátkodobé v hodnote 160 970,47,- €.

V rámci **krátkodobých záväzkov** účtovná jednotka eviduje :

- záväzky z obchodného styku v sume 0,- € v lehote splatnosti
- záväzky voči zamestnancom v sume 75,- € v lehote splatnosti

- daňové záväzky - splatná daň z príjmov právnických osôb za rok 2023 v sume 193,47,- € vyplývajúca zo zdaňovanej hlavnej činnosti – prenájom časti budovy v priebehu roku 2024.

- ostatné záväzky - účtovná jednotka eviduje krátkodobé záväzky do jedného roka v rámci schválených projektov APVV výzvy 23 v celkovej hodnote 160 702,- €, pričom uvedené prostriedky APVV poskytol vo forme preddavku na rok 2025 (čo je v rozpore s rozpočtovými pravidlami), na konci roka 2024 a bez limitov verejných výdavkov na rok 2025.

- Tento stav zapríčinený zo strany APPV bude mať veľmi výrazne negatívny vplyv na predpokladaný budúci vývoj organizácie v roku 2025, pretože dane finančné prostriedky sa

nebude možné zapojiť do rozpočtu organizácie z dôvodu limitu verejných výdavkov, čo výrazne ovplyvní činnosť a nemožnosť použiť finančné prostriedky pridelených projektov v rámci organizácie **v celkovej hodnote 160 702,- €:**

APVV 0235	**APVV 0401**
APVV 0407	**APVV 0250**
APVV 0382	**APVV 0482**
	APVV 0448

V rámci **dlhodobých záväzkov** účtovná jednotka k 31.12.2024 vykázala :

- záväzky zo sociálneho fondu v sume 12 019,13,- €

Najvýznamnejšou skupinou pasív je **časové rozlíšenie** v hodnote **1 410 488,58,-** €. Z toho najvyššiu hodnotu dosahujú Výnosy budúcich období - dlhodobé v sume **528 121,69,-** € a následne Výnosy budúcich období - krátkodobé v sume **432 363,60,-** €.

V rámci výnosov budúcich období sa sleduje :

- zostatková hodnota dlhodobého majetku obstaraného z dotácií (dlhodobé) 512 085,27,- €
- zostatok nepoužitých dotácií alebo grantov (dlhodobé) 16 036,42,- €
- zostatok nepoužitých dotácií alebo grantov (krátkodobé) 432 363,60,- €

VÝKAZ ZISKOV A STRÁT

Výkaz ziskov a strát je v plnom rozsahu uvedený v Účtovnej závierke za rok 2024, ktorá je prílohou Výročnej správy. ÚMB SAV, v. v. i. realizoval svoje aktivity v priebehu roka 2024 v rámci hlavnej činnosti nezdaňovanej a zdaňovanej. Celková výška dosiahnutých nákladov a výnosov za rok 2024 je uvedená v tabuľke :

VÝKAZ ZISKOV A STRÁT	
Náklady celkom k 31. 12. 2024	**3 187 638,05**
Výnosy celkom k 31. 12. 2024	**3 194 807,19**
Výsledok hospodárenia pred zdanením ZISK v €	**7 169,14**
Výsledok hospodárenia po zdanení ZISK v €	**6 975,67**

V rámci **hlavnej nezdaňovanej činnosti** bol dosiahnutý hospodársky výsledok pred zdanením strata 5 879,34,- € a v rámci **hlavnej zdaňovanej činnosti** bol dosiahnutý zisk pred zdanením 1 289,80,- €. Výsledok zdaňovanej činnosti bol vyčíslený z prenájmu priestorov.

Výnosy z hlavnej nezdaňovanej činnosti

Výnosy v hlavnej nezdaňovanej činnosti v sume 3 188 450,79,- € predstavujú podiel na celkových výnosoch ÚMB SAV, v. v. i. 99,80 %.

V rámci hlavnej nezdaňovanej činnosti bola celková výška výnosov zastúpená nasledovne :

• Výnosy z dotácií zo štátneho rozpočtu	3 161 040,60	99,14 %
• Tržby z predaja služieb	16 113,91	0,50 %
• Prijaté príspevky od právnických osôb	6 298,08	0,20 %
• Iné výnosy	4 998,20	0,16 %

***Dotácie* zo štátneho rozpočtu (účet 691)** sú poskytované hlavne od zriaďovateľa, ktorým je Slovenská akadémia vied. Finančné prostriedky sú poskytované na základe zmluvy o poskytnutí inštitucionálnej formy podpory výskumu a vývoja, ktorej súčasťou sú najmä finančné prostriedky na osobné a prevádzkové náklady, na vedeckú výchovu, na projekty (najmä VEGA, MVTS, Mobility, SASPRO, Doktogrant,) a tiež kapitálové prostriedky. Významnú časť príjmov tvoria dotácie na projekty APVV poskytnuté Agentúrou na podporu výskumu a vývoja, Projekt Interreg ‚ŠF EU – Lynch, V roku 2023 sa začal realizovať projekt Úradu Vlády SR - Projekt – plán obnovy Ukrajina – R3, R1 a v roku 2024 k nim pribudol ďalší projekt z plánu obnovy a odolnosti R-2.

***Tržby z predaja služieb* (účet 602)** zahŕňajú najmä fakturované služby vyplývajúce z riešenia úloh rozvoja vedy, rôzne analýzy a pod.

***Prijaté príspevky od právnických osôb* (účet 662)** zahŕňajú najmä výnosy z bežných transferov od subjektov mimo verejnej správy – zahraničné granty.

***Iné výnosy* (účty 649, 645)** zahŕňajú najmä vrátené poistné na sociálne a zdravotné poistenie za zamestnávateľa týkajúce sa predchádzajúcich účtovných období a iné.

Náklady z hlavnej nezdaňovanej činnosti

Najvyšší objem v rámci celkových nákladov tvoria **mzdové náklady** a k nim prislúchajúce **zákonné sociálne poistenie , zákonné sociálne náklady** Ďalšími významnými položkami sú **spotreba materiálu** náklady na nakupované **ostatné služby, iné ostatné náklady**, zahŕňajúce hlavne náklady na štipendiá a poistenie majetku, **odpisy** majetku , náklady na **cestovné** a náklady na **opravy a udržiavanie.** Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.

Druh a opis významných položiek nákladov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
501 – spotreba materiálu	233 112,2	342 863,92
502 –spotreba energie	40 028,23	49 493,24
511 – opravy a udržiavanie	13 850,32	41 391,13
512- cestovné	30 049,92	29 856,68
513 – náklady na reprezentáciu	224,55	30,45
518 – ostatné služby	250 881,33	77 992,96
521 – mzdové náklady	1 413 043,05	1 654 883,18
524 – zákonné sociálne poistenie a zdravotné poistenie	480 491,82	579 910,48
527- zákonné sociálne náklady	46 392,69	52 590,75
532 – daň z nehnuteľností	73,27	105,55
538 – ostatné dane a poplatky	5 307,55	4 210,61
541- zmluvné pokuty a penále	0	0
549 – iné statné náklady	167 298,93	195 008,16
551 – odpisy dlhodobého nehmotného a hmotného majetku	156 494,90	159 300,94

Náklady a výnosy zdaňovanej činnosti

ÚMB SAV, v. v. i. v rámci zdaňovanej činnosti dosahuje výnosy z nájmu majetku a služieb súvisiacich s prenájmom majetku. V rámci zdaňovanej činnosti dosiahli výnosy z nájmu sumu 6 356,40,- €. Výnosy zdaňovanej činnosti tvorili v roku 2024 0,20 % celkových výnosov.

Náklady zdaňovanej činnosti boli vykázané v sume 5 066,60,- €. Podiel nákladov zdaňovanej činnosti na celkových nákladoch predstavuje podiel 0,16 %.

20. Prehľad príjmov a výdavkov

Podľa § 26 ods. 1 zákona č. 243/2017 Z. z. ÚMB SAV, v. v. i. verejná výskumná inštitúcia vedie oddelené evidenciu.

Oddelená evidencia sa v účtovníctve vedie o:
a) hlavnej činnosti okrem činností podľa písmen b) a c),
b) činnosti podľa § 2 ods. 1 písm. a),
c) činnosti podľa § 2 ods. 1 písm. b),
d) činnosti podľa § 2 ods. 1 písm. c),
e) činnosti podľa § 2 ods. 1 písm. d) a
f) činnosti podľa § 2 ods. 1 písm. e).

V účtovníctve sa zároveň vedie oddelená evidencia o každom projekte v rámci činností podľa § 2 ods. 1. Verejná výskumná inštitúcia vedie svoje príjmy a výdavky v súlade s rozpočtovou klasifikáciou podľa osobitného predpisu. Všetky finančné prostriedky verejnej výskumnej inštitúcie sa vedú v zmysle zákona iba na účtoch v Štátnej pokladnici, pričom ÚMB SAV, v. v. i., nemá v inej banke vedené žiadne účty.

V zmysle § 27, ods. 4, písm. g) zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii výročná správa obsahuje prehľad príjmov a výdavkov z

1. hlavnej činnosti okrem činností podľa druhého a tretieho bodu,
2. činnosti podľa § 2 ods. 1 písm. a),
3. činnosti podľa § 2 ods. 1 písm. b),
4. činnosti podľa § 2 ods. 1 písm. c),
5. činnosti podľa § 2 ods. 1 písm. d) a
6. činnosti podľa § 2 ods. 1 písm. e),

Tabuľka **Príjmy a výdavky z hlavnej činnosti**

	FP k 01.01.2024	**Schválený rozpočet**	**Upravený rozpočet**	**Skutočnosť**	**Zostatok FP k 31.12.2024**
1	**2**	**3**	**4**	**5**	**6**
Príjmy spolu	**153313,79**	**2 224 485**	**3 073 857,45**	**3 319 583,05**	**340 246,2**
Z toho:					
ŠR ZDROJ 131	27 339,60			27 339,60	0
ŠR ZDROJ 111 (IFP)		1 968 855	2 592 879,54	2 592 879,54	27 339,60
ŠR ZDROJ 111 (APVV)		249 274	421 914	640 300	160 702
Spolu zo ŠR		2 218 129	3 014 793,54	3 260 519,14	188 041,60
Zahraničie ZDROJ 35	110 665,61		35000	35000	125 546,33
Vlastné zdroje ZDROJ 46	42 648,18	6 356,00	24 063,91	24 063,91	53 997,87
Výdavky spolu		**2 224 485**			
Z toho:					
ŠR ZDROJ 131	x			27 339,60	0
ŠR ZDROJ 111 (IFP)	x	1 968 855	2 592 879,54	2 565 539,94	27 339,60
ŠR ZDROJ 111 (APVV)	x	248 274	421 914	479 598	160 702

Spolu zo ŠR	**x**	**2 218 129**	**3 014 793,54**	**3 072 477,54**	**188 041,60**
Zahraničie ZDROJ 35	x		35000	20 119,28	14 880,72
Vlastné zdroje ZDROJ 46	x	6 356,00	24 063,91	12 714,22	11 349,69

Ďalšie prehľadnejšie tabuľkové informácie - prehľad príjmov a výdavkov za rok 2024 podľa EK poskytuje lepšiu charakteristiku hospodárenia organizácie, štruktúrovaná podľa zdrojov a ekonomických kategórií

Tabuľka detailnejší prehľad príjmov a výdavkov za rok 2024 podľa EK

	Ústav molekulárnej biológie SAV, v. v. i. Bilančná skutočnosť za rok 2024 v eurách	S 2024 H.č.	S 2024 P.č.	S 2024
	Príjmy v.v. i. spolu	3 525 146	0	3 525 146
	z toho:			0
200	*Nedaňové príjmy, v tom:*	24064	0	24064
210	Príjmy z podnikania a vlastníctva majetku	6 356	0	6 356
220	Administratívne a iné poplatky, v tom:	0	0	0
222	Pokuty, penále a iné sankcie			
223	Poplatky a platby z nepriem. a náh. pred. a služieb			
230	Kapitálové príjmy			
240	Úroky z tuzemských úverov, pôžičiek, NFV, z toho:	0	0	0
243	Z účtov finančného hospodárenia			
290	Iné nedaňové príjmy	17 708		17 708
300	*Granty a transfery*	3 501 082	0	3 501 082
310	Bežné granty a transfery, v tom:	3 314 689	0	3 314 689
311	Granty			
312001	zo ŠR, v tom:	3 174 010	0	3 174 010
	EÚ			
	spolufinancovanie			
	MŠVVaŠ - projekty			
	POO	129 573		129 573
312001	SAV - inštitucionálny príspevok	2 544 816		2 544 816
	APVV	499 621		499 621
312007	Z rozpočtu obce			0
312008	Z rozpočtu vyššieho územného celku			0
312011	od ostatných subjektov verejnej správy	140 679		140 679
	v tom: APVV od hlavného riešiteľa	140 679		140 679
314	Transfer subjektom nezaradeným vo verejnej správe			0
315	Transfery od subjektov nezaradených vo verejnej správe			0
320	Kapitálové granty a transfery, v tom:	48 064	0	48 064
321	Granty			0
322001	zo ŠR, v tom:	48 064	0	48 064
	EÚ			0
	spolufinancovanie zo ŠR			0

	POO			0
322001	SAV - inštitucionálny príspevok	48 064		48 064
	MŠVVŠ SR/APVV			0
322008	od ostatných subjektov verejnej správy			0
324	subjektom nezaradeným vo verejnej správe			0
325	Transfery od subjektov nezaradených vo verejnej správe			0
330	Zahraničné granty	138 330		138 330
400	*Príjmy z transakcií s fin. akt. a pas., v tom: (FO)*	332 548	0	332 548
453	Zostatok z predchádzajúcich rokov	332 548	0	332 548
	zdroj 131	27 340		27 340
	ostatné	305 208		305 208
500	*Prijaté úvery, pôžičky a návratné finančné výpomoci*	0	0	0
514	Ostatné úvery, pôžičky a návratné finančné výpomoci			0
	Výdavky v. v. i. spolu	3 218 857	0	3 218 857
	z toho:			
600	*Bežné výdavky, v tom:*	3 163 277	0	3 163 277
610	Mzdy, v tom:	1 648 933	0	1 648 933
	EÚ	61 599		61 599
	spolufinacovanie zo ŠR			
	POO	5 497		5 497
	SAV - inštitucionálny príspevok	1 474 803		1 474 803
	MŠVVŠ SR			
	APVV	96 850		96 850
	zahraničné granty	9 207		9 207
	zdroj 131			
	ostatné z vlastných zdrojov	977		977
620	Poistné, v tom:	579 910	0	579 910
	EÚ	22 221		22 221
	spolufinacovanie zo ŠR			
	POO	1 990		1 990
	MŠVVŠ SR			
	SAV - inštitucionálny príspevok	517 772		517 772
	APVV	34 304		34 304
	zahraničné granty	1406		1406
	zdroj 131			
	ostatné z vlastných zdrojov	2218		2218
630	Tovary a služby, v tom:	565 533	0	565 533
	EÚ	0		0
	spolufinacovanie zo ŠR			
	POO	6 414		6 414
	MŠVVŠ SR			
	SAV - inštitucionálny príspevok	306 998		306 998
	APVV	213 715		213 715
	zahraničné granty	9 506		9 506
	zdroj 131	23 460,60		23 460,60
	ostatné z vlastných zdrojov	2004		7 874
640	Bežné transfery, v tom:	386 036	0	386 036

	EÚ	106 173		106 173
	spolufinacovanie zo ŠR			
	POO	12 390		12 390
	MŠVVŠ SR			
	SAV - inštitucionálny príspevok	217 904		217 904
	APVV	138 607		138 607
	zahraničné granty			
	zdroj 131			
	ostatné z vlastných zdrojov			
650	Splácanie úrokov a ostatné platby			
700	*Kapitálové výdavky*	55 580	0	55 580
710	Obstarávanie kapitálových aktív, v tom:	55 580	0	55 580
	EÚ			
	spolufinacovanie zo ŠR			
	POO			
	MŠVVŠ SR			
	SAV - inštitucionálny príspevok	48 064		48 064
	APVV			
	zahraničné granty			
	zdroj 131			
	ostatné z vlastných zdrojov	7 516		7 516
720	Kapitálové transfery, v tom:	0	0	0
	EÚ			0
	spolufinancovanie zo ŠR			0
	SAV - inštitucionálny príspevok			0
	APVV			0
	ostatné z vlastných zdrojov			0

21. Pohyb a konečný stav majetku

V zmysle § 27, ods. 4, písm. h) zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii výročná správa obsahuje pohyb a konečný stav majetku ÚMB SAV v.v.i. :

Majetok
(celkové aktíva brutto)

	2024	2023
Celkové aktíva [€]	**4536618,05**	**4 719 028,51**
Nárast aktív [%]		
Pokles aktív [%]	**3,865**	**1,741**

Štruktúra majetku
(aktíva brutto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok	**24444**	**0,539**	**24444**	**0,5178**
Dlhodobý hmotný majetok	**3 849 001,79**	**84,843**	**3 793 421,74**	**80,386**
Dlhodobý finančný majetok				
Dlhodobé pohľadávky				
Krátkodobé pohľadávky	**3486,35**	**0,077**	**544477,2**	**11,537**
Zásoby	**348,48**	**0,008**	**491,76**	
Dlhodobé pohľadávky				
Finančné účty	**650 855,74**	**14,347**	**343 994,13**	**7,289**
Časové rozlíšenie	**8 481,69**	**0,187**	**12 199,68**	**0,2702**
Aktíva (Majetok brutto)	**4 536 618,05**	**100**	**4 719 028,51**	**100**

Majetok
(celkové aktíva netto)

	2024	2023
Celkové aktíva [€]	**1 280 203,22**	**1 621 914,62**
Nárast aktív [%]		
Pokles aktív [%]	**21**	**12,8**

Usmernenie č. MF/006583/2024-74 zo dňa 23.1.2024

- V zmysle tohto usmernenia verejné výskumné inštitúcie, ktoré majú uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie (APVV) účtujú o pohľadávke voči poskytovateľovi dotácie na ročnej báze. **Všetky zaúčtované pohľadávky o pridelení dotácií „ prísľuby“ (544 477,- €) na nasledujúce roky boli v roku 2024 odúčtované, čím sa znížila celkové hodnota majetku organizácie.**

Štruktúra majetku
(aktíva netto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok			**2 394**	**0,147**
Dlhodobý hmotný majetok	**617 031**	**48,197**	**718 358**	**44,29**
Dlhodobý finančný majetok				
Dlhodobé pohľadávky				
Krátkodobé pohľadávky	**3486,35**	**0,276**	**544477,2**	**33,57**
Zásoby	**348,48**	**0,027**	**491,76**	
Dlhodobé pohľadávky				
Finančné účty	**650 855,74**	**50,84**	**343 994,13**	**21,21**
Časové rozlíšenie	**8 481,69**	**0,66**	**12 199,68**	**0,783**
Aktíva (Majetok brutto)	**1 280 203,22**	**100**	**1 621 914,62**	**100**

Pre lepšiu charakteristiku hospodárenia organizácie s majetkom poskytuje ďalšia tabuľka, štruktúrovaná podľa kategórií

Popis	**Suma**
Počiatočný stav majetku k 1.1.2024 (brutto)	4 719 028,51
Pohyby majetku (zmena stavu)	182 410,46
Konečný stav majetku k 31.12.2024 (brutto)	4 536 618,05
Oprávky – stav k 1.1.2024	3 097 113,89
Pohyby oprávok (zmena stavu)	159 300,94
Oprávky – stav k 31.12.2024	3 256 414,83
Počiatočný stav majetku k 1.1.2024 (netto)	**1 621 914,62**
Konečný stav majetku k 31.12.2024 (netto)	**1 280 203,22**

Účtovná jednotka k 31.12.2024 mala v účtovníctve dlhodobý hmotný a nehmotný majetok.

V roku 2024 účtovná jednotka zaznamenala nasledovné prírastky dlhodobého hmotného majetku :

1/ technické zhodnotenie budovy v hodnote V roku 2024 bol zakúpený dlhodobý majetok – projektové dokumentácie pre zateplenie a modernizácia budov ÚMB SAV, v. v. i v celkovej sume 37 580,05,- €, s príspevku od zriaďovateľa v sume 30.064,- €, a vlastných zdrojov 7 516,08,- €,

2/ v kategórii Samostatné hnuteľné veci bol nadobudnutý dlhodobý hmotný majetok - €, Nákup strojov, prístrojov, zariadení, techniky s príslušenstvom v celkovej sume 18 000,- € v rámci projektu IMPULZ. Žiaden dlhodobý majetok v roku 2024 nebol vyradený.

3/ účet 551 – odpisy dlhodobého nehmotného a hmotného majetku 159 300,94,-€

Celková suma aktív k 31.12.2024 v hodnote **1 280 203,22,-€** ma nasledujúce členenie:

Aktíva	Bežné účtovné obdobie
NEOBEŽNÝ MAJETOK SPOLU (netto)	**617 030,96**
Dlhodobý nehmotný majetok	0,00
Dlhodobý hmotný majetok	617 030,96
Dlhodobý finančný majetok	0,00
OBEŽNÝ MAJETOK SPOLU (netto)	**654 690,57**
Zásoby	348,48
Dlhodobé pohľadávky	0,00
Krátkodobé pohľadávky	3 486,35
Finančné účty	650 855,74
ČASOVÉ ROZLÍŠENIE SPOLU	**8 481,69**
Náklady budúcich období	**8 481,69**
Príjmy budúcich období	0,00
MAJETOK SPOLU	**1 280 203,22**

Celková suma aktív k 01.01.2024 v hodnote **1 621 914,62,- €** ma nasledujúce členenie:

Aktíva	Bežné účtovné obdobie
NEOBEŽNÝ MAJETOK SPOLU (netto)	**720 751,85**
Dlhodobý nehmotný majetok	2 394
Dlhodobý hmotný majetok	718 357,85
Dlhodobý finančný majetok	0,00
OBEŽNÝ MAJETOK SPOLU (netto)	**888 963,09**
Zásoby	491,76
Dlhodobé pohľadávky	0,00
Krátkodobé pohľadávky	544 477,2
Finančné účty	343 994,13
ČASOVÉ ROZLÍŠENIE SPOLU	**12 199,68**
Náklady budúcich období	**12 199,68**
Príjmy budúcich období	0,00
MAJETOK SPOLU	**1 621 914,62**

22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku

(v zmysle § 27, ods. 4, písm. i zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Organizácia nemá obsahovú náplň pre uvedenú kapitolu.

23. Ďalšie údaje o hospodárení organizácie

V zmysle § 27, ods. 4, písm. j) zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii výročná správa obsahuje ďalšie údaje podľa § 2 ods. 3 písm. a), osobitných predpisov alebo rozhodnutia zakladateľa SAV :

23.1. Výdavky organizácie – štruktúra zdrojov

Tabuľka 23a Výdavky organizácie podľa štruktúry zdrojov (skutočnosť k 31. 12. 2024 v €)

Typ organizácie *(RO,PO)*		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	3 163 277,25	2540936,54	483 477	138 863,71	80,32
z toho: mzdy (610)	164 8933,18	1474802,68	96850,42	77 280,08	89,44
vedecká výchova štipendiá (640)	192 973,17	180 667,17		12 306	93,62
poistné a príspevok do poisťovní (620)	579 910,48	517 771,68	34 304,34	27 834,46	89,29
tovary a služby (630)	565 532,98	330 458,29	213 715,24	21 359,45	58,43
transfery partnerom projektov (640)	175 927,44	37 236,72	138 607	83,72	21,16
2. Kapitálové výdavky	55 580,05	48064		7516,05	86,48
z toho: obstarávanie kapitálových aktív	55 580,05	48 064		7 516,05	86,48
kapitálové transfery					

23.2. Zdroje financovania organizácie

Tabuľka 23b Zdroje financovania organizácie (skutočnosť k 31. 12. 2024 v €)

Typ organizácie *(RO,PO)*		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	2 540 936,54	48 064	1 474 802,68	517 771,68	
z toho: VEGA	134568				
MVTS výskumné projekty	2667				
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	7017			473,20	
Vedecká výchova (štipendiá)	180 667,17				
OTAS (630)	23 460,60				
2. ŠF EÚ vr. fin. zo ŠR	113 546,26		67 096,08	24 210,76	
3. medzinárodné grantové projekty	20 119,28		9 207,00	1 406,10	
z toho H2020					
4. iné štátne a verejné zdroje (spolu)	483 477		96 850,42	34304,34	138 607
z toho: APVV	483 477		96 850,42	34304,34	138 607
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	24 063,91				
z toho: príjmy z prenájmu	6356,40				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	17 707,51				

23.3 Ostatné údaje o hospodárení organizácie

Nemáme.

Výročnú správu o hospodárení organizácie zostavil(i):

Uveďte mená, priezviská a tituly osôb, ktoré spracovali výročnú správu o hospodárení organizácie.

Mgr. Pavol Pataky
RNDr. Lucia Bocánová, PhD.

Stanoviská orgánov v. v. i. k výročnej správe o činnosti a hospodárení organizácie

Stanovisko dozornej rady

Dňa 14.7.2025 Dozorná rada ÚMB SAV, v. v. i. na svojom zasadnutí prerokovala predloženú výročnú správu ÚMB SAV, v.v.i. (podľa §27, bod1 zákona o v. v. i.) a nemá pripomienky k aktuálnemu stavu organizácie.

Predsedníčka dozornej rady: prof. RNDr. Ľubica Lacinová, DrSc.

Stanovisko vedeckej rady

Dňa 27.6.2025 formou hlasovania *per rollam* Vedecká rada ÚMB SAV, v. v. i.vyjadrila súhlas s predloženou výročnou správou ÚMB SAV, v.v.i. a rok 2024 nemá k predloženej správe pripomienky.

Predseda vedeckej rady: Mgr. Ľuboš Kľučár, PhD.

Stanovisko správnej rady

V dňoch 20.6-23.62025 formou hlasovania *per rollam* Správna rada ÚMB SAV, v. v. i. vyjadrila svoj súhlas so znením predloženej výročnej správy ÚMB SAV, v. v. i., o činnosti a hospodárení za rok 2024 bez pripomienok.

Predseda správnej rady: RNDr. Imrich Barák, DrSc.

Bratislava, 18.7.2025

RNDr. Imrich Barák, DrSc.
riaditeľ verejnej výskumnej inštitúcie

Imrich Barák

Digitally signed by Imrich Barák
Date: 2025.07.18 14:06:04 +02'00'

PRÍLOHY K ČASTI B

Príloha B-1 Ročná účtovná závierka

Ročná účtovná závierka

a) bola predložená na prerokovanie správnej rade dňa 05.03. 2025 a správna rada ju prerokovala dňa 05.03. 2025.
b) bola predložená na schválenie dozornej rade dňa 11.03. 2025 a dozorná rada ju schválila dňa 11.03. 2025.

Ročná účtovná závierka bola uložená do registra účtovných závierok dňa 05.04. 2024.

UZNUJv21_1

Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 31.12.2024

Daňové identifikačné číslo	Účtovná závierka	Za obdobie	Mesiac	Rok
2020894689	X riadna	od	1	2024
IČO	mimoriadna	do	12	2024
00166634	priebežná	Bezprostredne predchádzajúce obdobie od	1	2023
SK NACE	(vyznačí sa x)	do	12	2023
72.19.0				

Priložené súčasti účtovnej závierky

X Súvaha (Úč NUJ 1-01) *(v eurocentoch)*

X Výkaz ziskov a strát (Úč NUJ 2-01) *(v eurocentoch)*

X Poznámky (Úč NUJ 3-01) *(v celých eurách alebo eurocentoch)*

Názov účtovnej jednotky

Ústav molekulárnej biológie SAV v.v.i

Sídlo účtovnej jednotky

Ulica: DÚBRAVSKÁ CESTA

Číslo: 21

PSČ: 84551

Obec: BRATISLAVA

Telefónne číslo: 259307414

E-mailová adresa: PAVOL.PATAKY@SAVBA.SK

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
24.01.2025	11.03.2025	

Súvaha (Úč NUJ 1-01) IČO 0 0 1 6 6 6 3 4

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
A. NEOBEŽNÝ MAJETOK SPOLU	**r. 002 + r. 009 + r. 021**	**001**	3873445.79	3256414.83	617030.96	720751.85
A.I.	**Dlhodobý nehmotný majetok**	**r. 003 až r. 008**	**002**	24444	24444		2394
A.I.1.	Nehmotné výsledky z vývojovej a obdobnej činnosti	012 - (072+091AÚ)	003				
2.	Softvér	013 - (073+091AÚ)	004	24444	24444		2394
3.	Oceniteľné práva	014 - (074 + 091AÚ)	005				
4.	Ostatný dlhodobý nehmotný majetok (018+ 019)-(078 + 079 + 091 AÚ)		006				
5.	Obstaranie dlhodobého nehmotného majetku	(041-093)	007				
6.	Poskytnuté preddavky na dlhodobý nehmotný majetok (051-095AÚ)		008				
A.II.	**Dlhodobý hmotný majetok**	**r. 010 až r. 020**	**009**	3849001.79	3231970.83	617030.96	718357.85
A.II.1.	Pozemky	(031)	010	63632.74		63632.74	63632.74
2.	Umelecké diela a zbierky	(032)	011	14394.58		14394.58	14394.58
3.	Stavby	021 - (081 + 092AÚ)	012	1198452.54	874035.7	324416.84	329537.93
4.	Samostatné hnuteľné veci a súbory hnuteľných vecí	022 - (082 + 092AÚ)	013	2558841.93	2344255.13	214586.8	310792.6
5.	Dopravné prostriedky	023 - (083 + 092AÚ)	014	13680	13680		
6.	Pestovateľské celky trvalých porastov	025 - (085 + 092AÚ)	015				
7.	Základné stádo a ťažné zvieratá	026 - (086 + 092AÚ)	016				
8.	Drobný dlhodobý hmotný majetok	028 - (088 + 092AÚ)	017				
9.	Ostatný dlhodobý hmotný majetok	029 - (089 +092AÚ)	018				
10.	Obstaranie dlhodobého hmotného majetku	(042 - 094)	019				
11.	Poskytnuté preddavky na dlhodobý hmotný majetok (052 - 095AÚ)		020				
A.III.	**Dlhodobý finančný majetok**	**r. 022 až r. 028**	**021**				
A.III.1.	Podielové cenné papiere a podiely v obchodných spoločnostiach v ovládanej osobe	(061- 096 AÚ)	022				
2.	Podielové cenné papiere a podiely v obchodných spoločnostiach s podstatným vplyvom	(062 - 096 AÚ)	023				
3.	Dlhové cenné papiere držané do splatnosti	(065 - 096 AÚ)	024				
4.	Pôžičky podnikom v skupine a ostatné pôžičky (066 + 067) - 096 AÚ		025				
5.	Ostatný dlhodobý finančný majetok	(069 - 096 AÚ)	026				
6.	Obstaranie dlhodobého finančného majetku	(043 - 096 AÚ)	027				
7.	Poskytnuté preddavky na dlhodobý finančný majetok (053 - 096 AÚ)		028				

Súvaha (Úč NUJ 1-01) IČO 0 0 1 6 6 6 3 4

Strana aktív			č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
				Brutto	Korekcia	Netto	Netto
a			b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU		**r. 030+ r. 037+ r. 042 + r. 051**	**029**	654690.57		654690.57	888963.09
B.I.	**Zásoby**	**r. 031 až r. 036**	**030**	348.48		348.48	491.76
B.I.1.	Materiál	(112 + 119) - 191	031	348.48		348.48	491.76
2.	Nedokončená výroba a polotovary vlastnej výroby (121+122) - (192 +193)		032				
3.	Výrobky	(123 - 194)	033				
4.	Zvieratá	(124 - 195)	034				
5.	Tovar	(132 + 139) - 196	035				
6.	Poskytnuté prevádzkové preddavky na zásoby (314 AÚ - 391 AÚ)		036				
B.II.	**Dlhodobé pohľadávky**	**r. 038 až r. 041**	**037**				
B.II.1.	Pohľadávky z obchodného styku (311 AÚ až 314 AÚ) - 391 AÚ		038				
2.	Ostatné pohľadávky	(315 AÚ - 391AÚ)	039				
3.	Pohľadávky voči účastníkom združení	(358AÚ - 391AÚ)	040				
4.	Iné pohľadávky (335 AÚ + 373 AÚ + 375 AÚ + 378AÚ) - 391AÚ		041				
B.III.	**Krátkodobé pohľadávky**	**r. 043 až r. 050**	**042**	3486.35		3486.35	544477.2
B.III.1.	Pohľadávky z obchodného styku (311AÚ až 314 AÚ) - 391AÚ		043	3404.6		3404.6	
2.	Ostatné pohľadávky	(315 AÚ - 391 AÚ)	044				
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami	(336)	045		x		
4.	Daňové pohľadávky	(341 až 345)	046		x		
5.	Pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy	(346+ 348)	047		x		544392
6.	Pohľadávky voči účastníkom združení	(358 AÚ - 391AÚ)	048				
7.	Spojovací účet pri združení	(396 - 391AÚ)	049				
8.	Iné pohľadávky (335AÚ + 373AÚ + 375AÚ + 378AÚ) - 391AÚ		050	81.75		81.75	85.2
B.IV.	**Finančné účty**	**r. 052 až r. 056**	**051**	650855.74		650855.74	343994.13
B.IV.1.	Pokladnica	(211 + 213)	052		x		
2.	Bankové účty	(221 AÚ + 261)	053	650855.74	x	650855.74	343994.13
3.	Bankové účty s dobou viazanosti dlhšou ako jeden rok (221 AÚ)		054		x		
4.	Krátkodobý finančný majetok(251+ 253 + 255AÚ+ 256 + 257) - 291AÚ		055				
5.	Obstaranie krátkodobého finančného majetku (259 - 291AÚ)		056				
C. ČASOVÉ ROZLÍŠENIE SPOLU		**r. 058 a r. 059**	**057**	8481.69		8481.69	12199.68
C.1.	Náklady budúcich období	(381)	058	8481.69		8481.69	12199.68
2.	Príjmy budúcich období	(385)	059				
MAJETOK SPOLU		**r. 001 + r. 029 + r. 057**	**060**	4536618.05	3256414.83	1280203.22	1621914.62

Súvaha (Úč NUJ 1-01) IČO 0 0 1 6 6 6 3 4

Strana pasív			č.r.	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
a			b	5	6
A. VLASTNÉ IMANIE		**r. 062+ r. 067 + r. 071 + r. 072**	**061**	146728.33	139752.66
A.I.	**Imanie a fondy**	**r. 063 až r. 066**	**062**	68430.96	68430.96
A.I.1.	Základné imanie	(411)	063	68430.96	68430.96
2.	Fondy tvorené podľa osobitných predpisov	(412)	064		
3.	Fond reprodukcie	(413)	065		
4.	Oceňovacie rozdiely z precenenia kapitálových účastín	(415)	066		
A.II.	**Fondy tvorené zo zisku**	**r. 068 až r. 070**	**067**		
A.II.1.	Rezervný fond	(421)	068		
2.	Fondy tvorené zo zisku	(423)	069		
3.	Ostatné fondy	(427)	070		
A.III.	**Nevysporiadaný výsledok hospodárenia minulých rokov (+; - 428)**		**071**	71321.7	69613.25
A.IV.	**Výsledok hospodárenia za účtovné obdobie r. 060 - (r. 062 + r. 067 + r. 071 + r. 073 + r. 100)**		**072**	6975.67	1708.45
B. ZÁVÄZKY		**r. 074 + r. 078 + r. 086 + r. 096**	**073**	172989.6	71673.38
B.I.1.	**Rezervy**	**r. 075 až r. 077**	**074**		
2.	Rezervy zákonné	(451AÚ)	075		
3.	Ostatné rezervy	(459AÚ)	076		
4.	Krátkodobé rezervy	(323 + 451AÚ + 459AÚ)	077		
B.II.	**Dlhodobé záväzky**	**r. 079 až r. 085**	**078**	12019.13	22312.52
B.II.1.	Záväzky zo sociálneho fondu	(472)	079	12019.13	11446.52
2.	Vydané dlhopisy	(473 - 255 AÚ)	080		
3.	Záväzky z nájmu	(474 AÚ)	081		
4.	Dlhodobé prijaté preddavky	(475)	082		
5.	Dlhodobé nevyfakturované dodávky	(476 AÚ)	083		
6.	Dlhodobé zmenky na úhradu	(478)	084		
7.	Ostatné dlhodobé záväzky	(373 AÚ + 479 AÚ)	085		10866
B.III.	**Krátkodobé záväzky**	**r. 087 až r. 095**	**086**	160970.47	49360.86
B.III.1.	Záväzky z obchodného styku	(321 až 326) okrem 323	087	75	49088
2.	Záväzky voči zamestnancom	(331+ 333)	088		
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)		089		
4.	Daňové záväzky	(341 až 345)	090	193.47	272.86
5.	Záväzky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy	(346+348)	091	160702	
6.	Záväzky z upísaných nesplatených cenných papierov a vkladov (367)		092		
7.	Záväzky voči účastníkom združení	(368)	093		
8.	Spojovací účet pri združení	(396)	094		
9.	Ostatné záväzky	(379 + 373 AÚ + 474 AÚ +476AÚ + 479 AÚ)	095		
B.IV.	**Bankové úvery a iné výpomoci a pôžičky**	**r. 097 až r. 099**	**096**		
B.IV.1.	Dlhodobé bankové úvery	(461AÚ)	097		
2.	Bežné bankové úvery	(231+ 232 + 461AÚ)	098		
3.	Prijaté krátkodobé finančné výpomoci	(241+ 249)	099		
C. ČASOVÉ ROZLÍŠENIE SPOLU		**r. 101 až r. 103**	**100**	960485.29	1410488.58
C.I.1.	Výdavky budúcich období	(383)	101		
2.	Výnosy budúcich období krátkodobé	(384 AÚ)	102	432363.6	550215.43
3.	Výnosy budúcich období dlhodobé	(384 AÚ)	103	528121.69	860273.15
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLÍŠENIA		**r.061+ r.073 + r.100**	**104**	1280203.22	1621914.62

MF SR 2021 Strana 4

Výkaz ziskov a strát (Úč NUJ 2-01) IČO 0 0 1 6 6 6 3 4

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
501	Spotreba materiálu	01	342863.92		342863.92	233112.2
502	Spotreba energie	02	47899.64	1593.6	49493.24	40028.23
504	Predaný tovar	03				
511	Opravy a udržiavanie	04	39580.13	1811	41391.13	13850.32
512	Cestovné	05	29856.68		29856.68	30049.92
513	Náklady na reprezentáciu	06	30.45		30.45	224.55
518	Ostatné služby	07	76330.96	1662	77992.96	250881.33
521	Mzdové náklady	08	1654883.18		1654883.18	1413043.05
524	Zákonné sociálne poistenie a zdravotné poistenie	09	579910.48		579910.48	480491.82
525	Ostatné sociálne poistenie	10				
527	Zákonné sociálne náklady	11	52590.75		52590.75	46392.69
528	Ostatné sociálne náklady	12				
531	Daň z motorových vozidiel	13				
532	Daň z nehnuteľností	14	105.55		105.55	73.27
538	Ostatné dane a poplatky	15	4210.61		4210.61	5307.55
541	Zmluvné pokuty a penále	16				
542	Ostatné pokuty a penále	17				
543	Odpísanie pohľadávky	18				
544	Úroky	19				
545	Kurzové straty	20				
546	Dary	21				
547	Osobitné náklady	22				
548	Manká a škody	23				
549	Iné ostatné náklady	24	195008.16		195008.16	167298.93
551	Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	25	159300.94		159300.94	156494.9
552	Zostatková cena predaného dlhodobého nehmotného majetku a dlhodobého hmotného majetku	26				
553	Predané cenné papiere	27				
554	Predaný materiál	28				
555	Náklady na krátkodobý finančný majetok	29				
556	Tvorba fondov	30				
557	Náklady na precenenie cenných papierov	31				
558	Tvorba a zúčtovanie opravných položiek	32				
561	Poskytnuté príspevky organizačným zložkám	33				
562	Poskytnuté príspevky iným účtovným jednotkám	34				
563	Poskytnuté príspevky fyzickým osobám	35				
565	Poskytnuté príspevky z podielu zaplatenej dane	36				
567	Poskytnuté príspevky z verejnej zbierky	37				
Účtová trieda 5 spolu r. 01 až r. 37		**38**	3182571.45	5066.6	3187638.05	2837248.76

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Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej v sústave podvojného účtovníctva

zostavená k 31.12.2024

Daňové identifikačné číslo	Účtovná závierka	Za obdobie	Mesiac	Rok
2020894689	X riadna	od	1	2024
IČO	mimoriadna	do	12	2024
00166634	priebežná	Bezprostredne predchádzajúce obdobie od	1	2023
SK NACE	(vyznačí sa x)	do	12	2023
72.19.0				

Priložené súčasti účtovnej závierky

X Súvaha (Úč NUJ 1-01) *(v eurocentoch)* X Výkaz ziskov a strát (Úč NUJ 2-01) *(v eurocentoch)* X Poznámky (Úč NUJ 3-01) *(v celých eurách alebo eurocentoch)*

Názov účtovnej jednotky

Ústav molekulárnej biológie SAV v.v.i

Sídlo účtovnej jednotky

Ulica: DÚBRAVSKÁ CESTA

Číslo: 21

PSČ: 84551

Obec: BRATISLAVA

Telefónne číslo: 259307414

E-mailová adresa: PAVOL.PATAKY@SAVBA.SK

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
24.01.2025	11.03.2025	[redacted]

Príloha B-2 Správa štatutárneho audítora k ročnej účtovnej uzávierke

V danom roku nebola vyhotovená.