Virologický ústav SAV

Správa o činnosti organizácie SAV za rok 2015

Bratislava
január 2016

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Virologický ústav SAV
Riaditeľ: MVDr. Juraj Kopáček, DrSc.
Zástupca riaditeľa: Ing. Ľudovít Škultéty, DrSc.
Vedecký tajomník: RNDr. Tatiana Betáková, DrSc.
Predseda vedeckej rady: Ing. Miroslav Glasa, PhD.
Člen snemu SAV: MVDr. Juraj Kopáček, DrSc.
Adresa: Dúbravská cesta 9, 845 05 Bratislava

http://www.virology.sav.sk/

Tel.: 02/ 59302405
Fax: 02/ 54774284
E-mail: virupold@savba.sk
Názvy a adresy detašovaných pracovísk:

- **Oddelenie biotechnologických aplikácií**
  Jarková 269/17, 082 22 Šarišské Michaľany

Vedúci detašovaných pracovísk:

- **Oddelenie biotechnologických aplikácií**
  RNDr. Vladimír Zelník, CSc.

Typ organizácie: Rozpočtová od roku 1953

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	125	37	88	10	19	107	93,65	56,92
Vedeckí pracovníci	68	23	45	6	11	56	46,65	46,19
Odborní pracovníci VŠ	27	6	21	4	8	24	20,51	10,42
Odborní pracovníci ÚS	19	3	16	0	0	18	16,64	0,31
Ostatní pracovníci	11	5	6	0	0	9	9,85	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (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 31.12.2015 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2015)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	5	19	2	1	5	11	7
Ženy	6	39	2	1	6	15	24

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

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
Muži	2	4	3	2	2	3	1	4	0
Ženy	9	5	10	8	2	5	5	2	1

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	45,6	44,7	45,3
Ženy	44,2	40,9	42,3
Spolu	44,6	42,2	43,2

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

V roku 2015 došlo k vybudovaniu Biotechnologických laboratórií SAV v rámci riešenia projektu „Centrum výskumu a vývoja imunologicky aktívnych látok“ kde Virologický ústav SAV vystupoval ako partner a tieto laboratóriá boli zahrnuté do jeho organizačnej štruktúry, ako súčasť Oddelenia biotechnologických aplikácií v detašovanom pracovisku v Šarišských Michaľanoch.

Základnými vedeckými organizačnými jednotkami aj naďalej zostávajú oddelenia, ktorých cieľom je riešenie aktuálnych vedeckých problémov v príslušných vedných odboroch.

Zoznam oddelení k 31.12.2015:

- Oddelenie rastlinnej virológie
- Oddelenie rickettsiológie
- Oddelenie ekológie vírusov
- Oddelenie molekulárnej medicíny
- Oddelenie molekulárnej patogenézy vírusov
- Oddelenie ortomyxovírusov
- Oddelenie biotechnologických aplikácií

Nevedeckými organizačnými jednotkami, ktoré sa podieľajú na vytváraní efektívnych a účelných pracovných podmienok vedeckých oddelení sú:

Zoznam úsekov VÚ SAV k 31.12.2015:

- 200 - právno-organizačný úsek
- 300 - ekonomický úsek
- 400 - technický úsek

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
			A		B
	A	B	spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2015 financované VEGA	27	1	218567	209888	7194
2. Projekty, ktoré boli r. 2015 financované APVV	14	5	552051	495252	26812
3. Projekty OP ŠF	0	5	-	-	155167
4. Projekty centier excelentnosti SAV	0	0	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	2	1	37278	41278	39000

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

Tabuľka 2b Počet návrhov domácich projektov podaných v roku 2015

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2015	-	5	2
2. Projekty výziev OP ŠF podané r. 2015	Bratislava		
	Regióny		

APVV-15-0058
Imunopatogenéza chrípkovej a bakteriálnej koinfekcie.
Zodpovedný riešiteľ: RNDr. František Kostolanský, CSc.

APVV-15-0188
Vývoj komplexného panela biomarkerov pre diagnostiku a manažment lymfómov a nazofaryngálnych karcinómov.
Zodpovedná riešiteľka: RNDr. Ingeborg Režuchová, PhD.

APVV-15-0232
Využitie sekvenovania novej generácie pre analýzu virómu medicínsky a hospodársky významných organizmov.
Zodpovedný riešiteľ: RNDr. Boris Klempa, PhD.

APVV-15-0697
Úloha CA IX v adaptácii na nádorové mikroprostredie a v rezistencii na protinádorovú terapiu: molekulárne mechanizmy a klinické implikácie
Zodpovedná riešiteľka: Prof. RNDr. Silvia Pastoreková, DrSc.

APVV-15- 0720
Stanovenie aktivity transfer faktora, imunostimulačného preparátu z extraktu leukocytov a štandardizácia jeho prípravy.
Zodpovedný riešiteľ: MVDr. Juraj Kopáček, DrSc.

APVV-15-0477
Identifikácia vírusu EBHS a vybraných patogénov ako možnej príčiny poklesu početnosti zajaca poľného (*Lepus europaeus*) na Slovensku.
Zodpovedný riešiteľ: MVDr. Rastislav Jurčík PhD.
Riešiteľská organizácia: Výskumný ústav živočíšnej výroby Nitra
Zodpovedná riešiteľka za VÚ SAV: RNDr. Marcela Kúdelová, DrSc.

APVV-15-0533
Vplyv mutácií ľudského ryanodínového receptora 2 vo vzťahu k jeho štruktúre a srdcovým arytmiám.
Zodpovedný riešiteľ: Jacob Bauer, PhD.
Riešiteľská organizácia: Ústav molekulárnej biológie SAV
Zodpovedná riešiteľka za VÚ SAV: RNDr. Marcela Kúdelová, DrSc.

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2015

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Projekty 7. Rámcového programu EÚ	0	3	-	-	115295
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	1	4	-	3333	5963
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	0	0	-	-	-
4. Bilaterálne projekty	2	1	9000	9000	2560
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	2	4	41792	28333	10796
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov, Horizon 2020	2	2	46305	46305	-

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

2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2015

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2015

	A	B
Počet podaných projektov v 7. RP EÚ		3
Počet podaných projektov Horizont 2020		5

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

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

Projekt 1
Výzva: H2020-PHC-2014-two-stage-Stage 2
Health, demographic change and wellbeing: Development of new diagnostic tools and technologies: in vitro devices, assays and platforms.
Číslo projektu: 633572-2
Názov: Lab-on-chip for fast antibiotic resistance determination and therapy monitoring
Akronym: AB-AB
Koordinátor: Prof. Vellekoop, University of Bremen, Nemecko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 2
Call: H2020-PHC-2014-two-stage
Topic: PHC-01-2014?
Type of action: RIA
Proposal number: SEP-210149299
Proposal title**:** Cancer, Obesity and MicroMilieu driven molecular pathways in an Ageing population.
Acronym: COMMA
Coordinator: Prof. Agnes Görlach, Technical University Munich, Nemecko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 3
Call: H2020-MSCA-ITN-2014
Topic: MSCA-ITN-2014-ETN
Action: MSCA-ITN-ETN
Proposal Number: SEP-210161544
Proposal title: Deciphering the hypoxia pathways in human health and diseases.
Proposal Acronym: HypoxiHealth
Coordinator: Dr. Edurne Berra, Téchnological park Bilbao, Španielsko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 4
Call: H2020-MSCA-ITN-2015
Proposal number: 676112
Proposal Acronym: RABYT
Proposal title: Rapid Blood Allergy Test
Coordinator: prof. Winnie E. Swendsen, Danish Technical University Nanotech, Dánsko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 5
Výzva: ERA-NET: Aligning national/regional translational cancer research programmes and activities (TRANSCAN-2), Joint Transnational Call for Proposals 2014 (JTC 2014): "Translational research on human tumour heterogeneity to overcome recurrence and resistance to therapy"
Číslo návrhu projektu: TRS-2015-00000159
Názov: European Digital Pathology Image Analysis Initiative Against Breast Cancer Recurrence.
Akronym: EU-DIGIPATH
Koordinátor: prof. Dr. Niels Grabe, National Center for Tumor Diseases (NCT), Institute of Pathology Heidelberg, Nemecko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 6
Výzva: ERA-NET: Aligning national/regional translational cancer research programmes and activities (TRANSCAN-2), Joint Transnational Call for Proposals 2014 (JTC 2014): "Translational research on human tumour heterogeneity to overcome recurrence and resistance to therapy"
Číslo návrhu projektu: TRS-2015-00000106
Názov: Tracing the origins of metastasis in primary ovarian cancer: Identification of novel refined biomarker panels and therapeutic targets.
Akronym: OVATRACE
Koordinátor: Prof. Robert Zeilinger, Medical University of Vienna, Rakúsko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 7
Výzva: ERA-NET: Aligning national/regional translational cancer research programmes and activities (TRANSCAN-2), Joint Transnational Call for Proposals 2014 (JTC 2014): "Translational research on human tumour heterogeneity to overcome recurrence and resistance to therapy".
Číslo návrhu projektu: TRS-2015-00000080
Názov: Tracking spatial and temporal intratumor heterogeneity to better predict breast cancer response to neoadjuvant therapies.
Akronym: STING
Koordinátor: prof. Andrea Rocca, Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori, Meldola, Taliansko
Partner za VÚ SAV: Silvia Pastoreková

Projekt 8
Výzva HORIZONT 2020, SFS-7-2014/2015:
Názov: European Fruit Resources Diversity Network.
Číslo návrhu projektu: 677695
Akronym: (EUFRUNET)
Koordinátor: JM Audergon, INRA Avignon, France
Partner za VÚ SAV: M. Glasa

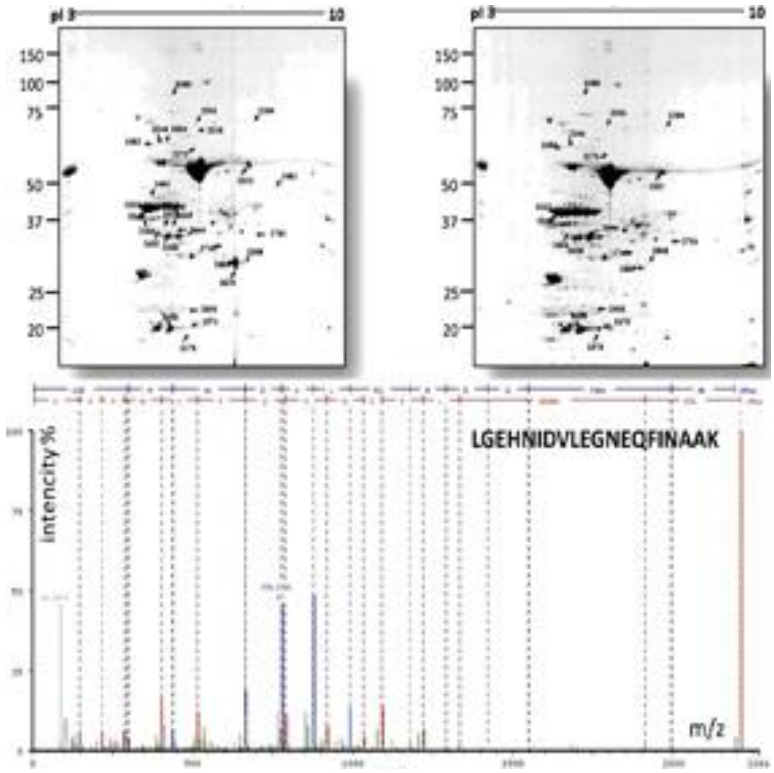
2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

V ukončenom programovom období projektov štrukturálnych fondov sa Virologický ústav aktívne podieľal či ako hlavný riešiteľ, alebo partner na viacerých projektoch. Ambíciou ústavu je aj naďalej vyhľadávať takúto formu spolupráce, hlavne z hľadiska zachovania udržateľnosti, ale aj ďalšieho rozvoja.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Stresové reakcie rastlín: pohľadom proteomiky.
Stresové podmienky môžu negatívne ovplyvniť rast rastlín, čo spôsobuje značné straty výnosov na poliach. Aby sa zmiernili škodlivé účinky týchto nepriaznivých podmienok prostredia, rastliny si vyvinuli rôzne adaptívne mechanizmy na bunkovej a metabolické úrovni. Väčšina z týchto stratégií zahŕňa dynamické zmeny v množstve proteínov, ktoré môžu byť najlepšie preskúmané pomocou proteomiky. Náš tím použil konvenčný proteomický prístup založený na dvojrozmernej gélovej elektroforéze (2-DE) na:
Vysvetlenie vírusovej rezistencie cukety: Infekcia vírusom žltej mozaiky cukety (*ZYMV*) u čiastočne rezistentnej odrody rýchlo aktivovala proteíny redox homeostázy sprevádzané nižšou úrovňou peroxidu vodíka; na druhej strane antioxidačné enzýmy boli prítomné vo väčšom množstve u citlivej odrody v neskoršej fáze po infekcii [1].
Objasnenie úspešného rastu ľanu v okolí Černobyľu: Pomocou striktnej štatistiky sme odhalili 8 odlišných proteínových profilov a identifikovali N-koncové fragmenty multifunkčných proteínov z rodiny „cupin“, ktoré pravdepodobne prispievajú k úspešnému rastu ľanu v prostredí kontaminovanom rádioaktivitou [2].
Detekciu alergénov v zrnách pšenice: Náš tím odhalil niekoľko klinicky významným proteínom, ktoré sú spojené s celiakiou, anafylaxiou vyvolanou fyzickou záťažou, astmou a alergiou na potraviny [3].



1. Nováková S, Flores-Ramírez G, Glasa M, Danchenko M, Fiala R, Skultety L. Partially resistant Cucurbita pepo showed late onset of the Zucchini yellow mosaic virus infection due to rapid activation of defense mechanisms as compared to susceptible cultivar. Front Plant Sci. 2015;6:263. doi: 10.3389/fpls.2015.00263

2. Gábrišová D, Klubicová K, Danchenko M, Gömöry D, Berezhna VV, Skultety L, Miernyk JA, Rashydov N, Hajduch M. Do Cupins Have a Function Beyond Being Seed Storage Proteins? Front Plant Sci. 2016;6:1215. doi: 10.3389/fpls.2015.01215

3. Fekecsová S, Danchenko M, Uvackova L, Skultety L, Hajduch M. Using 7 cm immobilized pH gradient strips to determine levels of clinically relevant proteins in wheat grain extracts. Front Plant Sci. 2015;6:433. doi: 10.3389/fpls.2015.00433

2.3.2. Aplikačný typ

Vývoj nových diagnostických metód a diagnostiky niektorých závažných ako aj novo sa objavujúcich ochorení ľudí, zvierat a rastlín.

V spolupráci s HPL laboratóriom sme sa venovali imunodiagnostike humánnej toxokarózy. V diagnostike toxokarózy zatiaľ neexistuje žiadna metóda, ktorá by s určitosťou potvrdila či ide o recentnú alebo chronickúinfekciu. Zistili sme 15,3% séroprevalenciu toxokarózy v Slovenskej populácii. IgG protilátky s nízkou aviditou boli často detegované u eozinofilných pacientov, podstatne vyššia eozinofília bola zistená u detí v porovnaní s dospelými a pozorovali sme miernu koreláciu medzi počtom eozinofilov a indexom avidity IgG protilátok. Dôkaz nízkoavidných IgG protilátok môže byť užitočný pre determináciu akútnej toxokarózy, avšak tento test musí byť vyhodnotený v korelácii s ďalšími imunologickými markermi, anamnestickými a epidemiologickými údajmi vyšetrovaných pacientov

Aplikáciou sekvenácie novej generácie (NGS) sme po prvýkrát v strednej Európe na viniči zistili prítomnosť nedávno popísaného vírusu viniča Syrah-1 (GSyV-1) a následne potvrdili jeho značnú vnútrodruhovú molekulárnu heterogenitu. Na základe určených kompletných a parciálnych sekvencií genómu GSyV-1 izolátov sme vyvinuli spoľahlivú a špecifickú RT-PCR detekciu, ktorou sme prekvapivo zistili častý výskyt tohto doteraz prehliadaného patogénu vo výsadbách na Slovensku.

Myší gamaherpesvírus 68 je prirodzený patogén myšovitých hlodavcov, ktoré sú hostiteľmi kliešťov, prenášačov patogénov, ktoré spôsobujú ochorenia ľudí a zvierat. Pomocou PCR sme vírus identifikovali u 25.9% samčekov a 44.9% samičiek kliešťa *Dermacentor reticulatus* na území Slovenska (Gabčíkove a Vojke). Explantáciou slinných žliaz kliešťov sme ako prví dokázali, že herpetický vírus sa množí v cicavčích bunkách, a teda že je živý. Vyvinuté metódy je možné aplikovať pri štúdiu prenosu vírusu z hlodavcov na ľudí prostredníctvom kliešťov.

Boldis V, Ondiska F, Špitalska E, Reiterova K. Immunodiagnostic approaches for the detection of human toxocarosis. In Experimental Parasitology, 2015, vol. 159, p. 252-258. (1.638 - IF2014).

Glasa M, Predajna L, Šoltys K, Sabanadzovic S, Olmos A. (2015). Detection and molecular characterisation of Grapevine Syrah virus-1 isolates from Central Europe. In Virus Genes, 2015, vol. 51, no. 1, p. 112-121. (1.576 - IF2014).

Kudelova M, Belvoncikova P, Vrbova M, Kovalova A, Štibraniova I, Kocakova P, Slovak M, Špitalska E, Lapunikova B, Matuskova R, Šupolikova M. (2015). Detection of Murine herpesvirus 68 (MHV-68) in Dermacentor reticulatus ticks. In Microbial Ecology, 2015, vol 70, p. 785-794. (2,973 - IF2014).

2.3.3. Medzinárodné vedecké projekty

Objavy a charakterizácia nových hlodavcami prenášaných vírusov.
V rámci rozsiahlej medzinárodnej spolupráci s viacerými partnermi v Nemecku, Rusku a viacerých afrických krajinách sme sa podieľali na objavoch a charakterizácii nových hantavírusov a arenavírusov. Retrospektívna analýza pacientov s hemoragickou horúčkou s renálnym syndrómom z oblasti pobrežia Čierneho mora v Rusku umožnila prvú komplexnú klinickú analýzu nami prednedávnom popísaného hantavírusu Sochi a ukázala jeho život-ohrozujúci potenciál, kedy až 14.5% rozpoznaných prípadov bolo smrteľných. V tej istej oblasti sme tiež popísali nový hantavírus prenášaný hrabošmi druhu *Microtus majori*, ktorého genetická analýza ukázala, že ide o nový genotyp Tula vírusu, popísaného aj na Slovensku. V rámci našich aktivít zameraných na Afriku sme sa podieľali na genetickej charakterizácii nových arenavírusov, identifikovaných v hlodavcoch v Namíbii.

Kruger DH, Tkachenko EA, Morozov VG, Yunicheva YV, Pilikova OM, Malkin G, Ishmukhametov AA, Heinemann P, Witkowski PT, Klempa B, Dzagurova TK. Life-Threatening Sochi Virus Infections, Russia. Emerg Infect Dis. 2015 Dec;21(12):2204-8.

Tkachenko EA, Witkowski PT, Radosa L, Dzagurova TK, Okulova NM, Yunicheva YV, Vasilenko L, Morozov VG, Malkin GA, Krüger DH, Klempa B. Adler hantavirus, a new genetic variant of Tula virus identified in Major's pine voles (Microtus majori) sampled in southern European Russia. Infect Genet Evol. 2015 Jan;29:156-63.

Witkowski PT, Kallies R, Hoveka J, Auste B, Ithete NL, Šoltys K, Szemes T, Drosten C, Preiser W, Klempa B, Mfune JK, Kruger DH. Novel Arenavirus Isolates from Namaqua Rock Mice, Namibia, Southern Africa. Emerg Infect Dis. 2015 Jul;21(7):1213-6.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2015/ doplnky z r. 2014	B Počet v r. 2015/ doplnky z r. 2014	C Počet v r. 2015/ doplnky z r. 2014
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**1 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**	**0 / 0**	**0 / 0**
9. Vedecké a odborné práce evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, CDDB, BDCA, BDCB, BDDA, BDDB)	**52 / 1**	**0 / 0**	**0 / 0**
10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**7 / 0**	**0 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch			
a/ recenzované práce a publikované pozvané príspevky (AECA, AECB, AEDA, AEDB, AFA, AFB, BEC, BED)	**27 / 0**	**0 / 0**	**0 / 0**
b/ nerecenzované práce (BEE, BEF, CEC, CED)	**2 / 0**	**0 / 0**	**0 / 0**
12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**1**	**0**	**0**

13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**1 / 0**	**0 / 0**	**0 / 0**
15. Práce uverejnené na internete (GHG)	**0 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**
17. Heslá v *Encyklopédii Beliana* a iných encyklopédiách a terminologických slovníkoch (BDA, BDB)	**0 / 0**	**0 / 0**	**0 / 0**

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

Tabuľka 2f Ohlasy

OHLASY	A Počet v r. 2014/ doplnky z r. 2013	B Počet v r. 2014/ doplnky z r. 2013
Citácie vo WoS Core Collection (1.1, 2.1)	1315 / 6	68 / 0
Citácie v SCOPUS (1.2, 2.2)	211 / 5	3 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	3 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	30 / 0	1 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

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

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

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	91
Prednášky a vývesky na domácich vedeckých podujatiach	56

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

PASTOREK J., PASTOREKOVÁ S.:
Carbonic anhydrase CA IX: Past, present and future.
In: 10th International Carbonic Anhydrase Conference - Book of abtracts. - Maastricht, Netherland : Maastro Clinic, 2015, p. 11

PASTOREKOVÁ,S.:
Carbonic anhydrase IX as a driver and regulator of acidosis in tumor microenvironment.
In: First International Munich ROS Meeting of COST Action BM1203, Munich, Technical University, 2015.

KLEMPA, B.:
Hantaviruses got wings. In German - African Workshop " New viruses in bats" within the framework of the "German - African Collaboration in Infectiology" Program of Deutsche Forschungsgemeinschaft (DFG). - Skukuza , Kruger National Park, South Africa : Robert Koch Institut / Institut fur Virologie, 2015, p. Session VI.: Expert talks and overview lectures.

PREDAJŇA, L., GLASA, M.:
Vplyv diverzity rastlinných vírusov na ich efektívnu diagnostiku. In TOMÁŠKOVY DNY 2015 Sborník : XXIV.Konference mladých mikrobiologú. Eds. Šisková Petra, Mahelová Martina. - Brno : Masarykova univerzita Brno, 2015, p. 14. ISBN 978-80-210-7851-2.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

NEMČOVIČOVÁ, I.
Characterization of human aciculin, a novel Z-disc component playing a role in cytoskeletal organization and function
In :Bratislava. Veľká zasadačkaVirologického ústavu SAV, Dúbravská cesta 9, 845 05 Bratislava 10.3.2015.

PASTOREKOVÁ,S., TAKÁČOVÁ,M., C?AMBAL M., LABAŠ P.
Nádorové mikroprostredie v karcinogenéze kolorekta: centrálna úloha v progresii choroby a implikácie pre klinickú prax.
In : 69. Chirurgický deň Kostlivého, Bratislava, 4.12.2015.

ŠKULTÉTY,Ľ.:
Od mikroskopie po štruktúrnu charakterizáciu.
In :Bratislava. Veľká zasadačkaVirologického ústavu SAV, Dúbravská cesta 9, 845 05 Bratislava. 16.12.2015.

TOMÁŠKOVÁ,J.:
Vírus lymfocytovej choriomeningitídy – podceňovaný ľudský patogén.
In : Bratislava. Univerzita Komenského v Bratislave, PF Katedra mikrobiológie a virológie. Mlynská dolina B-2, 20.2.2015.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2015

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2015 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 2h Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Csáderová Lucia	VEGA	1
Glasa Miroslav	SAS-TUBITAK Joint Research Cooperation	1
	VEGA	1
Kostolanský František	APVV	1
Kúdelová Marcela	APVV/ VV15	1
	VEGA	3
Nemčovičová Ivana	VEGA	2
Pastoreková Silvia	VEGA	2
Sekeyová Zuzana	VEGA	1
Švastová Eliška	APVV	1
	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Iné informácie k vedeckej činnosti.

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2015

Forma	Počet k 31.12.2015				Počet ukončených doktorantúr v r. 2015					
	Doktorandi				Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Interná zo zdrojov SAV	4	16	0	4	1	3	0	2	0	0
Interná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	0	2	0	0	0	1	0	0	0	0
Spolu	4	18	0	4	1	4	0	2	0	0
Súhrn	22		4		5		2		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	Interná z prostriedkov SAV	Interná z prostriedkov SAV	Interná z iných zdrojov	Interná z iných zdrojov	Externá	Externá
Do formy	**Interná z iných zdrojov**	**Externá**	**Interná z prostriedkov SAV**	**Externá**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**
Počet	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2015 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
RNDr. Martin Benej	interné štúdium hradené z prostriedkov SAV	9 / 2011	7 / 2015	7.1.15 onkológia	prof. RNDr. Silvia Pastoreková DrSc., Virologický ústav SAV	Lekárska fakulta UK

Mgr. Lenka Berthová	interné štúdium hradené z prostriedkov SAV	9 / 2011	8 / 2015	4.2.7 mikrobiológia	Mgr. Eva Špitalská PhD., Virologický ústav SAV	Prírodovedecká fakulta UK
RNDr. Martina Ličková	externé štúdium	9 / 2011	9 / 2015	4.2.13 virológia	RNDr. Boris Klempa PhD., Virologický ústav SAV	Prírodovedecká fakulta UK
Mgr. Margaréta Práznovská	interné štúdium hradené z prostriedkov SAV	9 / 2011	8 / 2015	4.2.13 virológia	RNDr. František Kostolanský CSc., Virologický ústav SAV	Prírodovedecká fakulta UK
Mgr. Lucia Škorvanová	interné štúdium hradené z prostriedkov SAV	9 / 2011	8 / 2015	4.2.13 virológia	RNDr. Tatiana Betáková DrSc., Virologický ústav SAV	Prírodovedecká fakulta UK

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných programov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

Názov študijného programu (ŠP)	Názov študijného odboru (ŠO)	Číslo ŠO	Univerzita/vysoká škola a fakulta
	virológia	4.2.13	Prírodovedecká fakulta UK
	molekulárna biológia	4.2.3	Prírodovedecká fakulta UK
	mikrobiológia	4.2.7	Prírodovedecká fakulta UK
	onkológia	7.1.15	Lekárska fakulta UK

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia	**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. Tatiana Betáková, DrSc. (virológia)	MVDr. Juraj Kopáček, DrSc. (Prírodovedecká fakulta UK)	Ing. Jana Tomášková, PhD. (IIa)
Ing. Miroslav Glasa, PhD. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Slovenská poľnohospodárska univerzita v Nitre)	RNDr. Tatiana Betáková, DrSc. (DrSc., Slovenská Akadémia Vied)
doc. RNDr. Peter Kabát, CSc. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Slovenská technická univerzita v Bratislave)	RNDr. Martina Ličková, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Elena Kocianová, DrSc. (mikrobiológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Slovenská zdravotnícka univerzita v Bratislave)	
MVDr. Juraj Kopáček, DrSc. (molekulárna cytológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Univerzita Komenského v Bratislave)	
MVDr. Juraj Kopáček, DrSc. (molekulárna biológia)	prof. RNDr. Silvia Pastoreková, DrSc. (Prírodovedecká fakulta UK)	
MVDr. Juraj Kopáček, DrSc. (mikrobiológia)		
RNDr. František Kostolanský, CSc. (virológia)		
RNDr. Marcela Kúdelová, DrSc. (virológia)		
prof. RNDr. Jela Mistríková, DrSc. (virológia)		
prof. RNDr. Jaromír Pastorek, DrSc. (virológia)		
prof. RNDr. Jaromír Pastorek, DrSc. (molekulárna biológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (virológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (imunológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (molekulárna cytológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (onkológia)		
RNDr. Eva Varečková, DrSc. (virológia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	9	0	9	0
Celkový počet hodín v r. 2015	89	0	142	0

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

Tabuľka 3g Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	18
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	22
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	12
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	19
5.	**Počet oponovaných dizertačných a habilitačných prác**	15
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	6
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	5
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	7
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	2

3.6. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2015 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

IV.Labudove dni, Smolenice, 65 účastníkov, 04.11.-06.11.2015
Vedecko-odborná konferencia poriadaná na počesť
významného slovenského biológa RNDr. Milana Labudu. Príspevky z odborov: virológia, mikrobiológia, zoológia, ekológia, epidemiológia.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2016 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	2	4	1

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Martin Benej

European Association of Cancer Research (funkcia: člen)

RNDr. Tatiana Betáková, DrSc.

AAAS (Advancing science, serving society) (funkcia: člen)
American Society For Microbiology (funkcia: člen)
Československá spoločnosť mikrobiologická (funkcia: člen)

prof. MUDr. Fedor Čiampor, DrSc.

Československá biologická spoločnosť AVČR (funkcia: podpredseda)
Československá mikrobiologická spoločnosť (funkcia: člen)
Československá miroskopická spoločnosť AVČR (funkcia: člen)

RNDr. Margaréta Fogelová

Československá mikrobiologická spoločnosť (funkcia: Člen)

Ing. Miroslav Glasa, PhD.

American Phytopathological Society (funkcia: člen)

RNDr. Jaroslav Hollý

Československá mikrobiologická spoločnosť (funkcia: člen)

RNDr. Boris Klempa, PhD.

Československá mikrobiologická spoločnosť (funkcia: člen)
European Network for Diagnostics of "Imported" Viral Diseases (ENIVD) (funkcia: menovaný reprezentant SR)
Gesellschaft für Virologie (funkcia: člen)

RNDr. Juraj Koči, PhD.

Československá mikrobiologická spoločnosť (funkcia: člen)

RNDr. František Kostolanský, CSc.

Čs. Spoločnosť mikrobilogická (funkcia: člen)
Eur. Soc. for Clinical Virology (funkcia: člen)

RNDr. Ivan Košík, PhD.

Čs. Spoločnosť mikrobiologická (funkcia: člen)

RNDr. Lucia Kotlárová

Česko slovenská mikrobiologická spoločnosť (funkcia: člen)

RNDr. Marcela Kúdelová, DrSc.

Československá mikrobiologická spoločnosť (funkcia: Členka)

RNDr. Katarína Lopušná, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)
European Society of Clinical Microbiology and Infectious Diseases (funkcia: člen)

RNDr. Radka Matúšková

ČSSM (funkcia: člen)

prof. RNDr. Jela Mistríková, DrSc.

Československá mikrobiologická spoločnosť (funkcia: člen)

Mgr. Ivana Nemčovičová, PhD.

Česká a slovenská kryštalografická spoločnosť (funkcia: člen)
Česká společnost pro biochemii a molekulární biologii (funkcia: člen)
Federation of European Biochemical Societies (funkcia: člen)
International Organization for Biological Crystallization (funkcia: člen)

prof. RNDr. Jaromír Pastorek, DrSc.

Európska akadémia vied a umení (funkcia: menovaný člen)

prof. RNDr. Silvia Pastoreková, DrSc.

European Organization for Research and Treatment of Cancer Receptor and Biomarker Group (funkcia: menovaná členka)
Európska molekulárno-biologická konferencia (funkcia: menovaná reprezentantka SR)
International Society of Cancer Metabolism (funkcia: členka výboru)

RNDr. Gustáv Russ, DrSc.

Čs. Spoločnosť mikrobiologická (funkcia: člen výboru)

RNDr. Zuzana Sekeyová, PhD.

Československá mikrobiologická spoločnosť (funkcia: člen)
European society of clinical microbiology and infectious diseases (ESCMID) (funkcia: člen)

Mgr. Eva Špitalská, PhD.

Československá mikrobiologická spoločnosť (funkcia: členka)

Mgr. Eliška Švastová, PhD.

International Society for Proton Dynamics in Cancer (funkcia: člen)

RNDr. Eva Varečková, DrSc.

Čs. spoločnosť mikrobilogická (funkcia: člen)
Eur. Soc. for Clinical Virology (funkcia: člen)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Csáderová Lucia	TÜBITAK	1
Glasa Miroslav	Program Kontakt II (LH) VES15 na podporu mezinárodní spolupráce ve výzkumu a vývoji, Česká republika	1
Špitalská Eva	APVV Slovensko - Čína	1
	MAD - Bilaterálne mobilitné projekty AV ČR	1
	POLISH - SLOVAK JOINT RESEARCH PROJECT	1
Štibrániová Iveta	Program medziakademickej spolupráce medzi SAV a Poľskou akademiou vied	1
Takáčová Martina	program medzinárodnej bilaterálnej vedeckej spolupráce “Slovak Academy of Sciences – The Scientific and Technological Research Council of Turkey (TUBITAK) Joint Research Project Programme”	1

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

prof. RNDr. Silvia Pastoreková, DrSc.
Mgr. Eliška Švastová, DrSc.
Kaoshiung, Taiwan 11/2015
Stretnutie riešiteľského kolektívu projektu SAS-MOST JRP 2014/10, sumarizácia dosiahnutých výsledkov a konkretizácia spolupráce s taiwanským partnerom na ďalšie obdobie riešenia projektu.

prof. RNDr. Silvia Pastoreková, DrSc.
MVDr. Juraj Kopáček, DrSc.
Brémy, Nemecko, 03/2015
Záverečné stretnutie konzorcia projektu 7. Rámcového programu EÚ EngCaBra, sumarizácia dosiahnutých výsledkov, demonštrácia vyvinutých biočippov a konkretizácia úloh pre prípravu záverečnej správy projektu.

prof. RNDr. Silvia Pastoreková, DrSc.
MVDr. Juraj Kopáček, DrSc.
Mgr. Eliška Švastová, DrSc.
Mgr. Martin Benej, PhD.
Mgr. Martin Kéry
Mgr. Elena Ondrisková
Mgr. Michaela Debreová
Mgr. Ivana Vidličková
Benátky, Taliansko 09/2015

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

5. Vedná politika

Virologický ústav sa dlhodobo zameriava na riešenie principiálnych vedeckých otázok a problémov virológie, molekulárnej biológie, mikrobiológie a onkológie v súlade s prioritami pracoviska definovanými v zriaďovacej listine a prihliadnutím na najnovší vývoj a trendy v jednotlivých vedných disciplínach. Vedecký záujem sa sústreďuje najmä na objasnenie molekulárno-biologických mechanizmov vírusovej replikácie, vzťahov medzi vírusmi, infikovanými bunkami a hostiteľskými organizmami, pochopenie mechanizmov vírusovej patogenézy, odhalenie funkcie vírusových komponentov, objasnenie imunitných odpovedí na vírusové infekcie, štúdium ekologických aspektov a vývoj postupov na detekciu spoločensky a hospodársky významných vírusov. Dlhodobú tradíciu má výskum štruktúrno-funkčných vlastností komponentov vonkajšej membrány rickettsií a chlamýdií, charakterizácia nových kmeňov a druhov týchto mikroorganizmov a ich medicínsky a ekologický význam. Významným úspechom je členstvo ústavu v projekte vybudovania európskeho vírusového archívu EVA a jeho pokračovanie v podobe globálnej EVAg.

V predchádzajúcej dekáde VÚ SAV tiež zintenzívnil výskumné aktivity v oblasti molekulárnej biológie, normálnej a patologickej fyziológie a onkológie, súvisiace s vedeckým zámerom, ktorý vznikol na pôde ústavu a viedol k získaniu viacerých originálnych výsledkov. Jedná sa hlavne o onkologický výskum v oblasti nádorovej hypoxie, kde má ústav vďaka objavu Karbonickej anhydrázy IX ako markera hypoxie, popredné postavenie vo svete. Vo VÚ SAV sa začali rozvíjať aktivity translačného charakteru v oblasti molekulárnej medicíny, a to najmä v podobe uplatňovania najnovších metodík molekulárnej biológie na vývoj detekčných testov vhodných na rýchlu a citlivú diagnostiku vírusových a nádorových ochorení. V poslednom období sa ústav snaží aktívnejšie rozvíjať spoluprácu so súkromným sektorom s cieľom zintenzívnenia zavádzania poznatkov vedy a výskumu do praxe. Virologický ústav SAV, má dlhodobo jasné vedné smerovanie vyplývajúce zo zamerania aktivít jednotlivých oddelení. Výsledkom týchto aktivít sú každoročne kvalitné vedecké výsledky, zhmotnené najmä publikačnými výstupmi. Dôležitá je skutočnosť, že ústavu sa darí zvyšovať kvalitu publikovaných prác, vyjadrenú najmä impakt faktorom časopisov a citačným ohlasom na tieto práce. Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu vedeckých kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí okolo 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na cca 5 nových miest interného doktorandského štúdia. Ústav sa snaží najlepších doktorandov zamestnať, aby prioritne uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov VÚ SAV. V snahe získať mladých adeptov vedy sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie diplomových prác, preddiplomová prax) a propagujú výsledky vedeckej činnosti (médiá, konferencie, semináre, letné školy, dni otvorených dverí). Pre zabezpečenie súčasnej pozície a jej perspektívne zlepšenie Virologický ústav SAV:

• rozvíja aktívnu spoluprácu so zodpovedajúcimi inštitúciami na Slovensku a v zahraničí
• buduje nové a modernizuje existujúce laboratóriá
• podporuje publikovanie zásadných výsledkov v uznávaných vedeckých časopisoch
• intenzívne sa venuje výchove doktorandov a najlepších následne zamestnáva
• VÚ SAV podporuje primeranú súťaživosť v rámci ústavu hodnotením výkonnosti vedeckých pracovníkov čím podporuje ich vedecko-kariérny rast.

Virologický ústav SAV bol v rámci posledného pravidelného hodnotenia vedeckých organizácií SAV (akreditácie) zaradený do najvyššej kategórie A, čo svedčí o vysokej kvalite vedeckovýskumnej práce.

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

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): pedagogická a výskumná činnosť
Začiatok spolupráce: 2008
Zameranie: onkológia
Zhodnotenie: Partnerská spolupráca pri riešení spoločných projektov, výchova doktorandov.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): Na VÚ SAV sídli časť katedry Mikrobiológie a virológie
Začiatok spolupráce: 1988
Zameranie: virológia a mikrobiológia
Zhodnotenie: Spolupráca je obojstranne výhodná a prináša spoločné projekty a publikácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): pedagogická činnosť
Začiatok spolupráce: 1994
Zameranie: prednášky, semináre a cvičenia na Katedre mikrobiológie a virológie, Katedre molekulárnej biológie, Katedre biochémie, Katedre genetiky
Zhodnotenie: Pracovníci VÚ SAV sa zapájajú do pedagogického procesu vedením bakalárskych, diplomových prác, a formou semestrálnych prednášok, seminárov a cvičení pre študentov bakalárskeho a magisterského stupňa.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave
Druh spolupráce (spoločné pracovisko alebo iné): spoločné projekty ŠF EÚ
Začiatok spolupráce: 2009
Zameranie: translačný výskum v biomedicíne
Zhodnotenie: Partnerská spolupráca v rámci nasledujúcich projektov ŠF: TRANSMED 1 a 2; BIOMAKRO 1 a 2;Kompetenčné centrum.

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

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

7.1. Spoločné pracoviská s aplikačnou sférou

Názov pracoviska: priemyselný výskum v klinickej diagnostike infekčných patogénov
Partner(i): BioScience Slovakia, s.r.o.
Zameranie: Spoločné pracovisko,
Rok založenia: 2012 - 2015
Zhodnotenie: Na základe dohody so zmluvným partnerom sa výsledky nezverejňujú.

Názov pracoviska: Centrum pre inovačný výskum protinádorových a protivírusových stratégií
Partner(i): BioScience Slovakia, s.r.o.
Zameranie: Rozvoj aplikačného výskumu a vývoja protinádorových a protivírusových stratégií
Rok založenia: 2015
Zhodnotenie: Centrum slúži k rozvoju a udržatelnosti projektov ŠF.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Testovanie antivírusového účinku Jodidu draselného a sodného 2 % - ného a Jodidu draselného 2 %- ného voči vírusu Herpes simplex 1 (HSV-1).
Partner(i): UNIMED PHARMA, spol. s r.o.
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2014
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2015
Objem získaných prostriedkov v bežnom roku (€): 0
Stručný opis výstupu/výsledku:
Zhodnotenie: Na základe dohody so zmluvným partnerom budú výsledky zverejnené až po ukončení testovania.

Názov kontraktu: Test antivírusového účinku odporúčanej dennej dávky prípravku Jodid draselný a sodný 2% na reaktiváciu vírusu HSV-1 počas rekurentnej infekcie oka u králikov.
Partner(i): UNIMED PHARMA, spol. s r.o.
Začiatok spolupráce (v súlade s podpísaným kontraktom): 2015
Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2015
Objem získaných prostriedkov v bežnom roku (€): 0
Stručný opis výstupu/výsledku:
Zhodnotenie: Na základe dohody so zmluvným partnerom sa výsledky nezverejňujú.

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
prof. MUDr. Fedor Čiampor, DrSc.	Global Forum for Health Research	člen
	Interacademy Medical Panel	člen
MVDr. Juraj Kopáček, DrSc.	Národná odborná vedecká skupina, Európsky úrad pre bezpečnosť potravín (EFSA)	člen
RNDr. Otakar Kúdela, CSc.	Národné vedecké skupiny EFSA	člen
	Slovenská národná akreditačná služba	expert
RNDr. Marcela Kúdelová, DrSc.	Slovenská národná akreditačná služba	expert
	Slovenská národná akreditačná služba	člen Pracovnej skupiny pre oblasť biochémie, lab. diagnostiky a zdravotníctva
prof. RNDr. Jaromír Pastorek, DrSc.	Komisia pre obhajoby doktorských dizertačných prác	Predseda
prof., RNDr. Jaromír Pastorek, DrSc.	Slovenská komisia pre vedecké hodnosti v odbore molekulárna biológia	predseda
prof. RNDr. Jaromír Pastorek, DrSc.	Rada vlády pre znalostnú spoločnosť	člen
	Rada vlády pre vedu a techniku	člen
prof. RNDr. Silvia Pastoreková, DrSc.	Slovenská komisia pre vedecké hodnosti	podpredsedníčka
	Slovenská komisia pre vedecké hodnosti v odbore virológia	predsedníčka
RNDr. Zuzana Sekeyová, PhD.	Ministerstvo životného prostredia SR	Expert SR na syntetickú biológiu v rámci Dohovoru o biodiverzite, Program OSN pre životné prostredie. Nominovaná vládou SR

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

Názov expertízy: členka Národného referenčného centra pre surveillance a laboratórnu diagnostiku rickettsií na Regionálnom úrade verejného zdravotníctva so sídlom v Banskej Bystrici
Adresát expertízy: Národný úrad verejného zdravotníctva
Spracoval: RNDr. Zuzana Sekeyová, PhD.
Stručný opis: Surveillance rickettsiálnych infekcií v ľudskej populácii na Slovensku

Názov expertízy: zapísaná do evidencie vedúcich projektov podľa § 12 ods. 2 písm. a) zákona č. 151/2002 Z. z., o používaní genetických technológií a geneticky modifikovaných organizmov, evidovaná pod číslom 59/06/13
Adresát expertízy: Ministerstvo životného prostredia SR
Spracoval: RNDr. Zuzana Sekeyová, PhD.

Stručný opis: Povoľuje používanie genetických technológií a geneticky modifikovaných organizmov v uzavretých priestoroch špecializovaných laboratórií vo VÚ SAV (od júla r. 2015).

Názov expertízy: posudzovateľ, expert v oblasti virológie a mikrobiológie
Adresát expertízy: Slovenská národná akreditačná služba
Spracoval: RNDr. Zuzana Sekeyová, PhD.
Stručný opis: 1.Od 05. 04. 2013 Expert v oblasti virológie a mikrobiológie, zaradená do databázy Slovenskej národnej akreditačnej spoločnosti (SNAS), v rámci Slovenského Národného programu dodržiavania zásad Správnej laboratórnej praxe (SLP) - aktuálne.

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
prof. RNDr. Silvia Pastoreková, DrSc.	Rada APVV pre lekárske vedy	Predsedníčka

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

9. Vedecko-organizačné a popularizačné aktivity
9.1.Vedecko-popularizačná činnosť
9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Tatiana Betáková, DrSc.		TV	Spravy	TV JOJ	26.11.2015
Mgr. Gabriela Flores-Ramírez, PhD.		IN	popularization of science for children, Principia magazine, Spain	http://principia.io/2015/10/26/destino-muelas-con-caries/	10.10.2015
RNDr. Jaroslav Hollý		PB	Prednáška: Chrípka - podceňovaný zabijak	EduCafe, Robotnícka 5, 831 03, Bratislava	1.12.2015
RNDr. Jaroslav Hollý		PB	Prednáška: Vírusy okolo nás	Gymnázium Ladislava Novomeského Senica	9.11.2015
RNDr. Jaroslav Hollý		PB	Prednáška: Vírusy okolo nás (Stredná zdravotnícka škola, Záhradnícka 44, Bratislava)	VÚ SAV	30.11.2015
RNDr. Jaroslav Hollý		TV	Príspevok k reporáži TV JOJ v novinách, reportáž o chrípke a očkovaní	televízia JOJ, Noviny JOJ, epizóda 292	19.10.2015
RNDr. Boris Klempa, PhD.		PB	Popularizačná prednáška o vírusoch pre žiakov základných škôl v rámci série Petržalská superškola	Bratislava	15.12.2015
RNDr. Boris Klempa, PhD.		TL	Rozhovor pre denník pravda o koronavíruse spôsobujúcom MERS	http://spravy.pravda.sk/domace/clanok/358399-podozrenie-na-mers-na-slovensku-sa-nepotvrdilo/	14.6.2015
RNDr. František Kostolanský, CSc.		RO	Rozhovor - informácie o chrípkových ochoreniach	RTVS	2015
RNDr. Eva Varečková, DrSc.		RO	vstup v rannom spravodajstve	RTVS	27.2.2015
RNDr. Lucia Kotlárová		TL	odborná rubrika	mesačník Maminka	3

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	4	tlač	2	TV	2
rozhlas	2	internet	1	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
IV.Labudove dni	medzinárodná	Smolenice	04.11.-06.11.2015	65

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

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

9.5. Členstvo v redakčných radách časopisov

RNDr. Tatiana Betáková, DrSc.

Journal of Infectious Diseases and Therapeutics (funkcia: člen redakčnej rady)
The Open Journal of Virology (ISSN: 1874-3579) (funkcia: člen redakčnej rady)
The Scientific World Journal (funkcia: člen redakčnej rady)

prof. MUDr. Fedor Čiampor, DrSc.

Acta virologica (funkcia: člen)
Bull. Čsl. spol. mikrobiol. (funkcia: člen)
Communicative and Integrative Biology (funkcia: člen)
Folia medica (funkcia: člen)
Voprosy virusologii (funkcia: člen)

RNDr. Boris Klempa, PhD.

Medical Virology (funkcia: člen redakčnej rady)

RNDr. Marcela Kúdelová, DrSc.

Scientific Journal of Genetics and Gene Therapy (funkcia: členka edičnej rady)

RNDr. Martina Labudová, PhD.

Acta Virologica (funkcia: editor)

prof. RNDr. Jaromír Pastorek, DrSc.

Acta Virologica (funkcia: člen)

prof. RNDr. Silvia Pastoreková, DrSc.

Frontiers in Molecular and Cellular Oncology (funkcia: Členka redakčnej rady)
Journal of Enzyme Inhibition and Medicinal Chemistry (funkcia: Členka redakčnej rady)

Mgr. Katarína Polčicová, PhD.

Acta virologica (funkcia: editor)

RNDr. Gustáv Russ, DrSc.

Acta virologica (funkcia: Hlavný redaktor)

RNDr. Vladimír Zelník, CSc.

Acta Virologica (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Pavlína Bartíková, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

RNDr. Martin Benej

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

prof. MUDr. Fedor Čiampor, DrSc.

Slovenská akademická spoločnosť (funkcia: člen hlavného výboru)

Ing. Miroslav Glasa, PhD.

Slovenská rastlinolekárska spoločnosť (funkcia: člen)

Mgr. Viera Holíková

Slovenská parazitologická spoločnosť pri Slovenskej akadémii vied (funkcia: člen)

RNDr. Elena Kocianová, DrSc.

Slovenská parazitologická spoločnosť (funkcia: Členka predsedníctva)

MVDr. Juraj Kopáček, DrSc.

Slovenská spoločnosť pre biochémiu a moeluárnu biológiu (funkcia: člen)

RNDr. Otakar Kúdela, CSc.

Slovenská rastlinolekárska spoločnosť (funkcia: podpredseda)

RNDr. Marcela Kúdelová, DrSc.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: Členka)
VEGA (funkcia: posudzovateľ projektov)

prof. RNDr. Jela Mistríková, DrSc.

Slovenská imunologická spoločnosť (funkcia: člen)

prof. RNDr. Jaromír Pastorek, DrSc.

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

prof. RNDr. Silvia Pastoreková, DrSc.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: členka)

RNDr. Zuzana Sekeyová, PhD.

Slovenská parazitologická spoločnosť (funkcia: člen)

RNDr. Monika Sláviková, PhD.

Slovenská parazitologická spoločnosť (funkcia: člen)

Mgr. Eva Špitalská, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: členka)

Mgr. Iveta Štibrániová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

RNDr. Eva Varečková, DrSc.

Slovenská biochemická spoločnosť (funkcia: člen)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		36 060
z toho	knihy a zviazané periodiká	36 060
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		8
z toho zahraničné periodiká		6
Ročný prírastok knižničných jednotiek		10
v tom	kúpou	6
	darom	1
	výmenou	3
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		36 060

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		120
z toho	odborná literatúra pre dospelých	60
	výpožičky periodík	10
	prezenčné výpožičky	50
MVS iným knižniciam		8
MVS z iných knižníc		10
MMVS iným knižniciam		0
MMVS z iných knižníc		18
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		15

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	89
Návštevníci knižnice spolu (bez návštevníkov podujatí)	589

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	1 125,20

10.5. Iné informácie o knižničnej činnosti

Jedná sa o základné informačné stredisko s jednou pracovníčkou s plným pracovným úväzkom.

Prehľad poskytovaných knižnično-informačných služieb:

- absenčné a prezenčné výpožičné služby
- medziknižničná a medzinárodná medziknižničná výpožičná služba
- rešerné služby z databáz v sieti SAV, Medline, Scopus, Current Contents
- automatizované spracovanie publikačnej činnosti pracovníkov VU SAV v databáze ARL
- reprografické služby

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

prof. MUDr. Fedor Čiampor, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Miroslav Glasa, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

MVDr. Juraj Kopáček, DrSc.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

prof. RNDr. Silvia Pastoreková, DrSc.

- VK SAV pre lekárske vedy (členka)

Ing. Ľudovít Škultéty, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

Ing. Miroslav Glasa, PhD.

- Komisia SAV pre zahraničné styky (člen)

MVDr. Juraj Kopáček, DrSc.

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

Ing. Ľudovít Škultéty, DrSc.

- Komisia SAV pre infraštruktúru a štrukturálne fondy (člen)

11.5. Členstvo v orgánoch VEGA

RNDr. Tatiana Betáková, DrSc.

- komisia VEGA č.9 pre lekárske a farmaceutické vedy (člen)

MVDr. Juraj Kopáček, DrSc.

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

prof. RNDr. Jela Mistríková, DrSc.

- komisia VEGA č.9 pre lekárske a farmaceutické vedy (člen)

Ing. Ľudovít Škultéty, DrSc.

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

RNDr. Zdeno Šubr, CSc.

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

12. Hospodárenie organizácie

12.1. Výdavky RO SAV

Tabuľka 12a Výdavky RO SAV (v €)

V ý d a v k y	**Skutočnosť k 31.12.2015 spolu**	**v tom:**			
		zo ŠR	**z toho:**	**z mimorozp. zdrojov**	**z toho:**
			ŠF EÚ vr. spolufinan.zo ŠR		**ŠF EÚ vr. spolufinan.zo ŠR**
Výdavky spolu	3 290 076,41	1 841 871,67	63 542,67	1 448 204,74	472 399,80
Bežné výdavky	3 1300057,41	1 831 354,67	53 025,67	1 298 702,74	322 897,80
v tom:					
mzdy (610)	1 229 996,67	961 557,86	25 361,86	268 432,81	107 256,99
poistné a príspevok do poisťovní (620)	446 477,91	333 185,81	8 863,81	113 292,10	37 486,22
tovary a služby (630)	1 187 602,65	393 752,00	18 800,00	793 850,65	178 154,59
z toho: časopisy	9 078,00	9 078,00			
VEGA projekty	219 587,00	219 587,00			
MVTS projekty	39 129,00	39 129,00			
CE	3 500,00	3 500,00			
vedecká výchova	8 800,00	8 800,00			
bežné transfery (640)	265 986,18	142 859,00		123 127,18	
z toho: štipendiá		142 859,00			
transfery partnerom projektov				121 447,51	
Kapitálové výdavky					
v tom:					
obstarávanie kapitálových aktív	160 019,00	10 517,00		149 502,00	149 502,00
kapitálové transfery					
z toho: transfery partnerom projektov					

12.2. Príjmy RO SAV

Tabuľka 12b Príjmy RO SAV (v €)

P r í j m y	**Skutočnosť k 31.12.2015 spolu**	**v tom:**	
		rozpočtové	**z mimorozp. zdrojov**
Príjmy spolu			
Nedaňové príjmy	16 213,00	16 213,00	
v tom:			
príjmy z prenájmu	16 213,00	16 213,00	
príjmy z predaja výrobkov a služieb			
iné			
Granty a transfery (mimo zdroja 111)	1 448 204,74		1 448 204,74
v tom:			
tuzemské	1 238 546,97		1 238 546,97
z toho: APVV	639 531,26		639 531,26
iné	599 015,71		599 015,71
zahraničné	209 657,77		209 657,77
z toho: projekty rámcového programu EÚ	189 052,07		189 052,07
iné	20 605,70		20 605,70

13. Nadácie a fondy pri organizácii SAV

V sledovanom období roka 2015 vo VÚ SAV nerealizovala svoju činnosť žiadna nadácia.

14. Iné významné činnosti organizácie SAV

VÚ SAV je:

- sídlom redakcie medzinárodného časopisu Acta virologica evidovaného v Current Contens
- sídlom Komisie pre obhajoby doktorských dizertačných prác v odbore virológia
- zmluvným partnerom v oblasti skúšobnej činnosti s Ústredným kontrolným a skúšobným ústavom poľnohospodárskym v Bratislave
- členom Global Outbreak Alert and Response network, ktorá pracuje pod záštitou Svetovej zdravotníckej organizácie (WHO).

VÚ SAV má spoločné pracoviská s:

- Katedrou mikrobiológie a virológie PF UK v Bratislave
- Ústavom zoológie SAV
- Bioscience Slovakia s.r.o.
- Slovenským registrom placentárnych a zárodočných buniek EUROCORD
- Ústavom experimentálnej endokrinológie SAV
- Ústavom experimentálnej onkológie SAV
- Ústavom molekulárnej fyziológie a genetiky SAV
- Ústavom molekulárnej biológie SAV
- Ústavom biochémie a genetiky živočíchov SAV
- Prírodovedeckou fakultou UK
- Lekárskou fakultou UK

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2015

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Ševčíková Andrea
Diplom za III. miesto
Oceňovateľ: PREVEDA - občianske združenie
Opis: VII. Interaktívna konferencia mladých vedcov v kategórii "Bunkový metabolizmus, fyziológia, molekulárna biológia a genetika

15.2. Medzinárodné ocenenia

Kéry Martin
Cena EACR za najlepší poster na konferencii
Oceňovateľ: Európska asociácia pre výzkum rakoviny
Opis: 2nd ISCaM meeting - Metabolism and microenvironmnet in cancer plasticity, 16-19. 09. 2015, Benátky, Taliansko, Italy

Predajňa Lukáš
Cena pre najlepšieho českého a slovenského mikrobiológa
Oceňovateľ: Československá Spoločnosť Mikrobiologická

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

Virologický ústav SAV pri poskytovaní informácií postupuje v súlase so zákonom č.211/2000 Z.z..

17. Problémy a podnety pre činnosť SAV

Problémy pracoviska:

Súvisia a do určitej mieri kopírujú celkovú situáciu vedy na Slovensku. Problémom je neštandartne fungujúci grantový systém, kde chýba pravidelnosť vyhlasovania najmä všeobecných výziev APVV. Špecifickým problémom so stúpajúcou tendenciou je administratívna záťaž súvisiaca už nie len s riešením projektov ŠF ale aj APVV. Taktiež je nutné urýchliť prípravu projektov zameraných na udržateľnosť prístrojovej infraštruktúry a podporiť pracoviská pri zakladaní „core facilities“.

Podnety pre činnosť SAV:

Ako sa píše vyššie, situácia vo financovaní vedy na Slovensku je problematická a nestabilná . Preto navrhujeme určité opatrenia na zefektívnenie vynaložených prostriedkov. Vzhľadom k tomu, že VEGA neposkytuje mzdové prostriedky, považujeme za spravodlivejšie, keby množstvo poskytnutých finančných prostriedkov na riešenie projektu nebolo pevne naviazané na riešiteľskú kapacitu kolektívu. Riešiteľská kapacita by mala byť iba sekundárnym ukazovateľom množstva pridelených financií, pričom najväčšia váha (80%) by mala byť prikladaná na kvalitu návrhu projektu, experimentálnu náročnosť projektu, kvalitu vedúceho riešiteľa a/alebo výsledky riešenia jeho predchádzajúcich projektov. VÚ SAV v plnej miere podporuje význam medzinárodnej spolupráce a význam možnosti priameho kontaktu so zahraničnými kolegami. Vzhľadom k tomu, že systému mobilitných vyslaní na základe špecifických centrálnych dohôd (MAD) chýba v mnohých prípadoch spätná väzba a podmienky vyslaní sú v závislosti na krajine rôzne, navrhujeme prehodnotiť efektivitu finančných prostriedkov pridelených v rámci medziakademických dohôd na mobilitu vedeckých pracovníkov. Naopak, významnou možnosťou zapojenia sa do medzinárodných výskumných sietí sú projekty COST, ktorých schvaľovanie je kompetitívne a akceptácia do konzorcia vyžaduje projektové krytie, zaručujúce efektivitu spolupráce. Nakoľko projekt COST môže byť výrazným impulzom pre kreovanie následných európskych projektov, navrhujeme prehodnotiť možnosť jeho väčšej podpory zo strany Predsedníctva SAV.

Správu o činnosti organizácie SAV spracoval(i):

RNDr. Tatiana Betáková, DrSc., 02/ 59302440
Mgr. Eva Kastel, 02/59302414
JUDr. Iveta Šárniková, 02/ 59302400

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
MVDr. Juraj Kopáček, DrSc.	Ing. Miroslav Glasa, PhD.

Prílohy
Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2015

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

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Tatiana Betáková, DrSc.	100	1.00
2.	prof., RNDr. Ľudevít Kádaši, DrSc.	18	0.20
3.	MVDr. Juraj Kopáček, DrSc.	100	1.00
4.	doc. Ing. Oľga Križanová, DrSc.	5	0.04
5.	RNDr. Marcela Kúdelová, DrSc.	100	1.00
6.	prof. RNDr. Jela Mistríková, DrSc.	10	0.10
7.	RNDr. Karol Ondriaš, DrSc.	18	0.20
8.	prof., RNDr. Jaromír Pastorek, DrSc.	70	0.30
9.	prof. RNDr. Silvia Pastoreková, DrSc.	100	1.00
10.	Ing. Ľudovít Škultéty, DrSc.	100	1.00
11.	RNDr. Eva Varečková, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	RNDr. Monika Baráthová, PhD.	100	0.62
2.	Mgr. Pavlína Bartíková, PhD.	100	1.00
3.	RNDr. Lucia Csáderová, PhD.	100	1.00
4.	RNDr. Adriana Gibadulinová, CSc.	100	1.00
5.	Ing. Miroslav Glasa, PhD.	100	1.00
6.	Mgr. Marián Grman, PhD.	24	0.13
7.	Ing. Martin Hajduch, PhD.	30	0.30
8.	doc. RNDr. Peter Kabát, CSc.	10	0.10
9.	RNDr. Boris Klempa, PhD.	100	1.00
10.	RNDr. František Kostolanský, CSc.	100	1.00
11.	RNDr. Ján Košovský, CSc.	27	0.27
12.	Mgr. Ľubomíra Lenčešová, PhD.	20	0.20
13.	RNDr. Tatiana Mikušková, PhD.	100	0.33
14.	Mgr. Anton Mišák, PhD.	24	0.13
15.	Ing. Slavomíra Nováková, PhD.	100	1.00
16.	Mgr. Marco Quevedo Diaz, PhD.	100	1.00
17.	RNDr. Ingeborg Režuchová, PhD.	100	1.00

18.	RNDr. Zuzana Sekeyová, PhD.	100	1.00
19.	Mgr. Eva Špitalská, PhD.	100	1.00
20.	Mgr. Katarína Štefanidesová, PhD.	100	0.75
21.	Mgr. Iveta Štibrániová, PhD.	100	1.00
22.	RNDr. Zdeno Šubr, CSc.	100	1.00
23.	Mgr. Eliška Švastová, PhD.	100	1.00
24.	RNDr. Martina Takáčová, PhD.	100	1.00
25.	RNDr. Miriam Zaťovičová, CSc.	100	1.00
26.	RNDr. Vladimír Zelník, CSc.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Mária Bartošová, PhD.	100	1.00
2.	RNDr. Petra Belvončíková, PhD.	100	1.00
3.	RNDr. Martin Benej, PhD.	100	0.25
4.	Mgr. Lenka Berthová, PhD.	100	0.33
5.	RNDr. Zuzana Bobišová, PhD.	100	0.00
6.	Ing. Peter Ditte, PhD.	100	0.00
7.	Mgr. Gabriela Flores-Ramírez, PhD.	100	1.00
8.	RNDr. Margaréta Fogelová, PhD.	100	0.33
9.	RNDr. Sabína Fumačová Havlíková, PhD.	100	1.00
10.	PharmDr. Tereza Goliaš, PhD.	100	0.92
11.	Mgr. Alžbeta Hulíková, PhD.	100	0.00
12.	RNDr. Filippo Iuliano, PhD.	100	1.00
13.	RNDr. Juraj Koči, PhD.	100	0.00
14.	RNDr. Kamila Koči, PhD.	100	0.00
15.	RNDr. Ivan Košík, PhD.	100	0.12
16.	RNDr. Martina Košíková, PhD.	100	0.00
17.	RNDr. Martina Labudová, PhD.	100	1.00
18.	RNDr. Katarína Lapošová, PhD.	100	1.00
19.	RNDr. Martina Ličková, PhD.	100	1.00
20.	RNDr. Katarína Lopušná, PhD.	100	0.33
21.	RNDr. Ľubomíra Lukáčiková, PhD.	100	1.00
22.	RNDr. Alžbeta Nagyová, PhD.	100	1.00
23.	Mgr. Ivana Nemčovičová, PhD.	100	0.75
24.	Mgr. Katarína Polčicová, PhD.	100	1.00
25.	Mgr. Lukáš Predajňa, PhD.	100	1.00

26.	Mgr. Peter Radvák, PhD.	24	0.24
27.	RNDr. Monika Sláviková, PhD.	100	1.00
28.	RNDr. Veronika Šimko, PhD.	100	0.96
29.	RNDr. Lucia Škvarková, PhD.	100	0.00
30.	RNDr. Petra Švančarová, PhD.	100	0.25
31.	Ing. Jana Tomášková, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním			
1.	RNDr. Ľubomíra Bártová	100	1.00
2.	Ing. Silvia Belošicová	100	1.00
3.	Ing. Marcela Birčáková	100	1.00
4.	Ing. Eva Boldišová	100	0.00
5.	MVDr. František Csicsay	100	0.60
6.	Mgr. Maksym Danchenko	100	1.00
7.	RNDr. Lenka Jelenská	100	0.67
8.	Mgr. Eva Kastel	100	1.00
9.	Ing. Csaba Kósa, PhD.	100	0.50
10.	RNDr. Lucia Kotlárová	100	1.00
11.	MVDr. Mária Kováčová	100	0.60
12.	Mgr. Hana Krasoňová	100	1.00
13.	Ing. Stela Laušová	100	1.00
14.	Mgr. Richdard Lichvár	67	0.56
15.	RNDr. Marta Miklošová	100	1.00
16.	RNDr. Ingrid Ovečková	100	1.00
17.	Ing. Katarína Palkovičová	100	0.00
18.	Ing. Ľubica Predajňová	100	1.00
19.	Mgr. Ondrej Ragač	67	0.56
20.	Mgr. Simona Repelová	67	0.56
21.	RNDr. Oľga Sedláková	100	1.00
22.	Ing. Darina Svetlíková	100	1.00
23.	JUDr. Iveta Šárniková	100	1.00
24.	RNDr. Katarína Trnková	100	0.00
25.	Mgr. Ivana Vidličková	100	0.47
26.	Mgr. Mária Vozárová	100	1.00

Odborní pracovníci ÚSV			
1.	Margita Benkovičová	100	1.00
2.	Kornel Dobročka	100	1.00
3.	Ľudmila Hasíková	100	1.00
4.	Zuzana Chabroňová	100	1.00
5.	Jana Išová	100	1.00
6.	Dušan Janiga	100	0.75
7.	Viera Jesenská	100	1.00
8.	Radoslav Kohanyi	100	1.00
9.	Alena Kosorinová	100	1.00
10.	Margita Mišovičová	100	1.00
11.	Matilda Némethová	100	1.00
12.	Bc. Eva Nováková	100	1.00
13.	Alena Oravská	100	1.00
14.	Milada Poldaufová	100	1.00
15.	Blažena Rajciová	100	1.00
16.	Marta Siebenstichová	58	0.58
17.	Renáta Szalayová	100	0.00
18.	Marta Šírová	31	0.31
19.	Kvetoslava Tarábková	100	1.00
Ostatní pracovníci			
1.	Ľudmila Bubničová	100	1.00
2.	Dagmar Cigánová	100	1.00
3.	Stanislav Daniš	100	1.00
4.	Marián Hanczko	100	1.00
5.	Jana Kavalírová	80	0.80
6.	Milan Košut	100	1.00
7.	Dušan Kovarský	80	0.80
8.	Iveta Krajčírová	100	1.00
9.	Alexandra Pobočíková	100	0.00
10.	Vladimír Rojik	100	1.00
11.	Ľubica Sopúšková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	prof. MUDr. Fedor Čiampor, DrSc.	30.6.2015	0.20
2.	prof., RNDr. Ľudevít Kádaši, DrSc.	31.12.2015	-
3.	RNDr. Elena Kocianová, DrSc.	3.6.2015	0.50
4.	doc. Ing. Oľga Križanová, DrSc.	31.12.2015	-
5.	RNDr. Karol Ondriaš, DrSc.	31.12.2015	-
6.	RNDr. Gustáv Russ, DrSc.	30.6.2015	0.20
Samostatní vedeckí pracovníci			
1.	Mgr. Marián Grman, PhD.	31.12.2015	-
2.	Ing. Martin Hajduch, PhD.	31.12.2015	-
3.	RNDr. Otakar Kúdela, CSc.	30.6.2015	0.50
4.	Mgr. Ľubomíra Lenčešová, PhD.	31.12.2015	-
5.	Mgr. Anton Mišák, PhD.	31.12.2015	-
6.	RNDr. Vojtech Mucha, CSc.	30.6.2015	0.10
Vedeckí pracovníci			
1.	Ing. Peter Ditte, PhD.	31.12.2015	-
2.	RNDr. Juraj Koči, PhD.	31.12.2015	-
3.	RNDr. Kamila Koči, PhD.	31.12.2015	-
Odborní pracovníci s VŠ vzdelaním			
1.	Mgr. Tímea Benkóczka	30.9.2015	0.75
Odborní pracovníci ÚSV			
1.	Dušan Janiga	31.12.2015	-
2.	Marta Šírová	31.12.2015	-
3.	Monika Vadovičová	28.2.2015	0.00
Ostatní pracovníci			
1.	Ing. Vladimír Batelka	31.3.2015	0.25

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Monika Bohácsová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
2.	Mgr. Petra Bullová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
3.	Mgr. Michaela Debreová	Lekárska fakulta UK	7.1.15 onkológia
4.	Mgr. Martina Frimmelová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
5.	Mgr. Viera Holíková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
6.	RNDr. Jaroslav Hollý	Prírodovedecká fakulta UK	4.2.13 virológia
7.	Mgr. Martin Kéry	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
8.	Mgr. Soňa Kontseková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
9.	Mgr. Monika Lachová	Prírodovedecká fakulta UK	4.2.13 virológia
10.	RNDr. Radka Matúšková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
11.	Mgr. Elena Ondrisková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
12.	Mgr. Balázs Sallay	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
13.	Mgr. Nina Sihelská	Prírodovedecká fakulta UK	4.2.13 virológia
14.	Mgr. Róbert Szabó	Prírodovedecká fakulta UK	4.2.13 virológia
15.	Mgr. Andrea Ševčíková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
16.	Mgr. Karolína Tomčíková	Prírodovedecká fakulta UK	4.2.13 virológia
17.	Mgr. Lucia Turianová	Prírodovedecká fakulta UK	4.2.13 virológia
18.	Mgr. Jana Valáriková	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
19.	Mgr. Zuzana Vozárová	Prírodovedecká fakulta UK	4.2.13 virológia
20.	Mgr. Radivojka Vulić	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Mgr. Lucia Kotlárová	Prírodovedecká fakulta UK	4.2.13 virológia
2.	Mgr. Katarína Trnková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Asociácia hypoxiou-indukovanej karbonickej anhydrázy IX s odpoveďou na liečbu, s mikro-RNA profilom a onkogénnymi dráhami: od integrovanej analýzy NCI60 panelu nádorových buniek k pacientom *(Association of the hypoxia-induced carbonic anhydrase IX with drug response, miRNA profile and oncogenic pathways: from integrative analysis of the NCI60 cancer cell panel to cancer patients)*

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	SAS-MOST-JRP-2014/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Taiwan: 3
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:
V roku 2015 sme v spolupraci s Taiwanskym partnerom získali nasledujúce výsledky:

1. Identifikovali sme negatívnu koreláciu dvoch transmembránových karbonických anhydráz CA9 a CA4 v nádoroch obličiek a kolorekta. Tento vzťah bol pomocou bioinformatickej analýzy do veľkej miery zachovaný aj v paneli nádorových bunkových línií NCI60 a potvrdený pomocou RT PCR analýz. Ukázali sme tiež, že expresia týchto dvoch enzýmov je regulovaná hypoxiou, ktorá indukuje CA9 a zároveň potláča CA4. V nádoroch obličiek je ich hladina ovplyvnená inaktivačnou mutáciou onkosupresorového génu von Hippel Lindau. Práca je v štádiu kompletizácie, prebieha imunohistochemická analýza pacientských vzoriek a rukopis sa pripravuje.

Vedecké výstupy:

Bartošová M, Takáčová M, Stano, M., Križanová, O., Šoltýsová, A., Kéry, M., Kopáček, J., Pastoreková, S. Hypoxia-driven feedback regulation between cell-surface carbonic anhydrases. In 10th International Carbonic Anhydrase Conference - Book of abtracts. - Maastricht, Netherland : Maastro Clinic, 2015, p. 64.

2. Uskutočnili sme proteomickú analýzu dvoch bunkových línií z panelu NCI60, reprezentujúcich primárny a metastatický kolorektálny karcinóm. Analýza buniek kultivovaných v normozii a v hypoxii odhalila korelácie CA9 s inými nádorovými biomarkermi, ktoré v súčasnosti ďalej študujeme. Okrem toho sme spolu s taiwanským partnerom analyzovali vzťah expresie CA9 s génmi zapojenými do nádorovej progresie a s mikroRNA (kadheríny, metabolické gény, gény zapojené do invazívnosti a pod). Ukazuje sa, že v normoxii CA9 koreluje hlavne s génmi a miRNA, ktoré regulujú endotelovo-mezenchýmovú tranzíciu, ktorá je charakteriztická pre pokročilé nádory.

3. Pomocou bioinformatickej analýzy sme odhalili koreláciu medzi účinkom niektorých protinádorových liečiv a expesiou CA9 v rôznych nádorových bunkových líniách. V súčasnosti sme spolu s partnerom dokázali vplyv chemoterapie (erlotinib a gefitinib) na expresiu CA IX v nádorových bunkách a naopak, vplyv expresie CA IX na rezistenciu nádorových buniek voči terapii.

Programy: COST

2.) Udržateľná produkcia vysokokvalitných čerešní pre európsky trh. *(Sustainable production of high-quality cherries for the European market)*

Zodpovedný riešiteľ:	Lenka Abaffyová
Zodpovedný riešiteľ v organizácii SAV:	Miroslav Glasa
Trvanie projektu:	15.4.2013 / 15.4.2016
Evidenčné číslo projektu:	COST FA1104
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Institut Nationale de la Recherche Agronomique, INRA UMR1332, Villenave d´Ornon
Počet spoluriešiteľských inštitúcií:	18 - Rakúsko: 3, Česko: 3, Španielsko: 3, Francúzsko: 3, Švajčiarsko: 3, Poľsko: 3
Čerpané financie:	COST: 4000 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Vytvorila sa fungujúca sieť spolupracujúcich pracovísk na uskutočnenie ring-testu pre validáciu súčasných postupov pre diagnostiku vírusových patogénov čerešní. Na území Slovenska sme pomocou optimalizovaných RT-PCR testov identifikovali vírus maloplodosti čerešne 1 (LChV-1), vírus zakrpatenosti slivky (PDV) a vírus nekrotickej krúžkovitosti slivky (PNRSV). Po prvýkrát sme v našom regióne diagnostikovali prítomnosť vírusu maloplodosti čerešne 2 (LChV-2). Dve vzorky višní zavedené do kukltúry in vitro boli podrobené analýze NGS (next generation sequencing) zameranej na analýzu dvojvláknových RNA. Na základe tejto analýzy sme zachytili v jednej zo vzoriek prítomnosť sekvencií vírusu čerešne A (CVA).

3.) Využitie sekvenovania novej generácie pre štúdium a diagnostiku vírusových chorôb rastlín v poľnohospodárstve *(Application of next generation sequencing for the study and diagnosis of plant viral diseases in agriculture)*

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	9.3.2015 / 8.3.2019
Evidenčné číslo projektu:	COST FA1407
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	COST: 3333 € Podpora medzinárodnej spolupráce z národných zdrojov: 3333 €

Dosiahnuté výsledky:
Vytvorila sa fungujúca sieť pracovísk zaoberajúcich sa využitím sekvenácie novej generácie (NGS) na identifikáciu a charakterizáciu vírusov rastlín. Začali sme s optimalizáciou metódy prípravy templátu pre NGS (analýza dsRNA, siRNA a/alebo celkovej RNA) z rôznych typov vzoriek (čerešňa, vinič, rajčiak). Urobili sa prvé experimenty s pripraveným infekčným cDNA klonom Grapevine Pinot gris virus na štúdium symptomatológie vírusov a identifikáciu genetických determinantov ovplyvňujúcich jeho etiológiu.V rámci projektu boli úspešne podané a akceptované 2 krátkodobé vedecké pobyty pre mladých vedeckých pracovníkov oddelenia, ktoré sa uskutočnia v roku 2016.

Programy: 7RP

4.) Proti-kliešťové vakcíny na prevenciu kliešťami prenášaných ochorení v Európe *(Anti-tick Vaccines to Prevent Tick-borne Diseases in Europe)*

Zodpovedný riešiteľ:	Boris Klempa
Trvanie projektu:	1.12.2013 / 30.11.2018
Evidenčné číslo projektu:	602272
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Academisch Medisch Centrum bij de Universiteit van Amsterdam
Počet spoluriešiteľských inštitúcií:	6 - Česko: 1, Nemecko: 2, Španielsko: 1, Holandsko: 2
Čerpané financie:	EU: 43474 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Projekt je zameraný na vývoj vakcín zacielených proti kliešťom Ixodes ricinus, ktoré by súčasne chránili voči viacerým kliešťami-prenášaným patogénom, predovšetkým voči boréliám, babésiám a vírusu kliešťovej encefalitídy. Kľúčovou stratégiou je využitie transkriptómových analýz slinných žliaz infikovaných kliešťov počas cicania na hostiteľovi pre vytipovanie vhodných antigénov.
V uplynulom roku sme realizovali pre nás kľúčový experiment projektu, ktorým bola komparatívna transkriptómová analýza slinných žliaz nymf kliešťov Ixodes ricinus v kontexte infekcie vírusom kliešťovej encefalitídy, ako aj v kontexte cicania na hostiteľovi. Pre tento experiment bolo spracovaných celkovo 1800 nymf. Pre transkriptómovú analýzu bola použitá metodika MACE (Massive Analysis of cDNA Ends). Výsledky analýz sa v súčasnosti spracúvajú.

Vedecké výstupy:

Ličková M, Havlíková S, Klempa B. Candidates for Anti-Tick Vaccines. In Modbiolin workshop on Ticks and Tick-Transmitted Diseases 2015 : Abstracts. - Český Krumlov, 2015, p. 06.

Sprong H, Trentelman J, Seemann I, Grubhoffer L, Rego ROM, Hajdušek O, Kopáček P, Šíma R, Nijhof AM, Anguita J, Winter P, Rotter B, Havlíková S, Klempa B, Schetters TP, Hovius JWR. ANTIDotE: anti-tick vaccines to prevent tick-borne diseases in Europe. In Modbiolin workshop on Ticks and Tick-Transmitted Diseases 2015 : abstracts. - Český Krumlov, 2015

5.) Biomedicínske inžinierstvo pre vývoj diagnostiky a terapie nádorových a mozgových chorôb
(Biomedical engineering for cancer and brain disease diagnosis and therapy development)

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.4.2011 / 31.3.2015
Evidenčné číslo projektu:	264417
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Dr. Michiel J. Vellekoop, Institute of Sensor and Actuator Systems, Vienna University of Technology
Počet spoluriešiteľských inštitúcií:	11 - Rakúsko: 3, Dánsko: 3, Švajčiarsko: 3, Holandsko: 2
Čerpané financie:	EÚ: 15662 € Podpora medzinárodnej spolupráce z národných zdrojov: 1463 €

Dosiahnuté výsledky:
Tento projekt mal tréningový charakter a jeho hlavným cieľom bola výchova mladých vedeckých pracovníkov a rozvoj ich kariéry v multidisciplinárnom a medzinárodnom prostredí. Z vedeckého hľadiska bol projekt zameraný na vývoj a testovanie rozličných biosenzorov na bunkových

modeloch. V roku 2015 sme sa v spoluráci s rakúskym partnerom podieľali na štúdiu cielenej terapie melanómov. Na liečbu pokročilých melanómov sa používa inhibítor kinázy BRAF, na ktorý však často vzniká rezistencia. Ukázali sme, že komnbinácia vemurafenibu s protilátkami voči povrchovému glykoproteínu CSPG4 je nádejnou stratégiou na dosiahnutie účinnejších terapeutických efektov. Okrem toho sme sa v spolupráci s českými kolegami podieľali na štúdiu nádorového proteínu AGR3 a najmä jeho úlohy v medzibunkovej signalizácii. Publikovali sme súnrnný článok a experimentálna práca bola odoslaná do redakcie na posúdenie.

Vedecké výstupy:

Pucciarelli D, Lengger N, Takacova M, Csaderova L, Bartosova M, Breiteneder H, Pastorekova S, Hafner C. Anti-chondroitin sulfate proteoglycan 4-specific antibodies modify the effects of vemurafenib on melanoma cells differentially in normoxia and hypoxia. Int J Oncol. 2015 Jul;47(1):81-90.

Pucciarelli D, Lengger N, Takacova M, Csaderova L, Bartosova M, Breiteneder H, Pastorekova S, Hafner C. Hypoxia increases the heterogeneity of melanoma cell populations and affects the response to vemurafenib. Molecular Medicine Reports, in press.

Obacz J, Takacova M, Brychtova V, Dobes P, Pastorekova S, Vojtesek B, Hrstka R. The role of AGR2 and AGR3 in cancer: similar but not identical. Eur J Cell Biol. 2015 Mar-Apr;94(3-4):139-47.

6.) Nové liečivá cielené voči polymeráze vírusu chrípky *(New drugs targeting influenza virus polymerase)*

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.11.2010 / 30.4.2015
Evidenčné číslo projektu:	259751
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stephen Cussack, EMBL, Germany/France
Počet spoluriešiteľských inštitúcií:	12 - Rakúsko: 3, Belgicko: 1, Nemecko: 3, Španielsko: 1, Francúzsko: 3, Švédsko: 1
Čerpané financie:	EU: 41962 € MVTS: 14197 € Podpora medzinárodnej spolupráce z národných zdrojov: 1333 €

Dosiahnuté výsledky:

Cieľom projektu bol vývoj nových antivirotík - inhibítorov RNA polymerázy vírusov chrípky A (IAV). Dizajnovanie inhibítorov vírusovej RNA polymerázy zahŕňalo stanovenie detailnej štruktúry vírusovej RNA-dependentnej RNA polymerázy RTG štruktúrnou analýzou, syntézu týchto látok, testovanie ich toxicity in vitro a in vivo, preverenie farmakokinetických vlastností a efektívnosti inhibície replikácie IAV in vitro a in vivo.Testované látky museli spĺňať podmienku inhibičného účinku aj voči Tamiflu-rezistentnému (TR) IAV. Za týtmo účelom sme pripravili TR vírusu A/Mississippi/1/85 (H3N2) a TRV A/Perth/pandemický 2009 (H1N1).

Pre záverečné testovanie sa vybralo 20 účinných látok. Ich in vivo testovanie na toxicitu a antivírusový účinok viedol k selekcii jednej účinnej látky, SAV-17 174, ktorá poskytla 100%- nú protektivitu myšiam infikovaným letálnou dávkou vírusu chrípky A. Tento účinok bol porovnateľný s účinkom lieku Tamiflu vo všetkých sledovaných parametroch priebehu infekcie (žiadna strata na váhe, žiadne klinické príznaky ochorenia, žiadne patologické zmeny na orgánoch 20 dní po infekcii, index protektivity1). Ďalším dôležitým aspektom je, že táto nová látka je účinná aj voči Tamiflu rezistentným kmeňom vírusu chrípky, čo predstavuje významný potenciálny prínos pre zdravie ľudí.

Výsledky sú predmetom patentovania.

Programy: Bilaterálne - iné

7.) Využitie sekvenačných analýz novej generácie na detekciu a charakterizáciu závažných vírusov čerešní. *(Application of the next-generation sequencing analyses for the detection and characterization of important viral pathogens of cherries.)*

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.1.2014 / 31.12.2015
Evidenčné číslo projektu:	SK-FR-2013-0021
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Institut Nationale de la Recherche Agronomique
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2560 €

Dosiahnuté výsledky:
Na polyvalentnú detekciu vírusov čerešní bola použitá dvojkroková nested PCR metóda (PDO). Vďaka použitiu degenerovaných primerov s inozínom nie je táto metóda špecificky cielená na konkrétne vírusy , ale priamo na detekciu všetkých vírusov patriacich do rodov Tricho-, Capillo- a Foveavirus. Výhodou tejto metódy je časová nenáročnosť a široký detekčný záber vhodný najmä na skríning aj väčšieho počtu vzoriek. Aplikáciou tejto metódy sme zistili prítomnosť vírusu čerešne A vo viacerých vzorkách na Slovensku.
Na metagenomickú analýzu bola extrahovaná dsRNA zo 4 vzoriek čerešní, ktoré boli po NGS sekvenovaní analyzované bioinformatickým programom CLC WorkBench v rámci zaškolenia mladého vedeckého pracovníka. Vyselektované sekvencie budú následne použité na samotnú bioinformatickú analýzu a to jednak z celkového pohľadu na viróm mapovaním sekvencii voči referenčným databázam, alebo hľadanie nových vírusov odfiltrovaním známych sekvencii a následne analýzou sekvencii pre ktoré nie je známa referencia.

8.) ***Biochemical and structural characterization of immune modulators and F-actin capping muscular proteins***

Zodpovedný riešiteľ:	Ivana Nemčovičová
Trvanie projektu:	1.9.2014 / 28.2.2015
Evidenčné číslo projektu:	Aktion SK-AT
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Rakúsko: 1
Čerpané financie:	Austrian Ministry of Science and Culture: 9000 €

Dosiahnuté výsledky:
1. Nadviazanie novej vedeckej spolupráce s Prof. Kristina Carugo-Djinovic v oblasti makromolekulovej kryštalografie s možnosťou využívať akademické prístrojové vybavenie Max F. Perutz Laboratórií Viedenskej Univerzity v nasledujúcich rokoch.

2. Vybraný svalový proteín F-aktínu, PGM-5, bol identifikovaný a rekombinantne pripravený v dvoch expresných systémoch, a to bakteriálnom E. coli Rosetta systéme ako aj v bakulovírusovom systéme za použitia hmyzých H5 a Sf9 buniek. Za využitia streptavidínovej afinity k biotínu s následnou chromatografiou uskutočnenou iónovou výmenou sme pripravili vzorku s vysokou čistotou. Statickým (SLS) a dynamickým (DLS) svetelným rozptylom na molekúlach PGM-5 sme určili jeho presnú molekulovú hmotnosť. Expresia ľudského PGM-5 bola optimalizovaná s cieľom pripraviť čistý proteín k ďalšej charakterizácií (termofluor a MS) a kryštalizácií.

3. Vybraný ľudský NK bunkový aktivátor, CD155, bol pripravený rekombinantne v Bac-to-Bac expresnom sytéme a ďalej charakterizovaný. Boli testované väzby k cytomegalovírusovým imunomodulátorom UL141 a UL142 pomocou afinitných pull-down esejí a SPR technológie.

Programy: European Regional Development Fund (ERDF)

9.) *(IntegRECAMO: Intellectual Anchor for Regional center for applied molecular oncology)*

Zodpovedný riešiteľ:	Ivana Nemčovičová
Trvanie projektu:	1.6.2013 / 31.12.2016
Evidenčné číslo projektu:	CZ.1.07/2.3.00/20.0097
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Regional Center for Applied Molecular Oncology at the Masaryk Memorial Cancer Institute
Počet spoluriešiteľských inštitúcií:	3 - Česko: 1, Veľká Británia: 1, Slovensko: 1
Čerpané financie:	

Dosiahnuté výsledky:
Príprava a molekulárna charakterizácia molekúl súvisiacich s HCMV UL14, US2 a RL11, a molekúl prítomných na bunkovom povrchu, ako sú ligandy DNAM-1 (CD155, CD112), TRAIL receptory smrti (-R1, -R3, -R4), ako aj príprava a charakterizácia iných endogénnych ligandov (TIGIT, CD96, DNAM-1, NKG2D). Návrh a príprava DNA expresných konštruktov vybraných génov kódovaných virulentnými kmeňmi HCMV a HIV-1 ako aj ich vybraných ľudských bunkových receptorov.

Programy: Iné

10.) Sledovanie proteínovej odpovede C. burnetii na procesy súvisiace s rezistenciou na tetracyklín *(Profile of the protein response in the process of resistance to tetracycline by C. burnetii)*

Zodpovedný riešiteľ:	Gabriela Flores-Ramírez
Trvanie projektu:	1.2.2014 / 30.9.2015
Evidenčné číslo projektu:	38512014/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:
Dosiahnuté výsledky:
V tomto experimente bola zistená signifikantná zmena na urovní troch proteínov v dôsledku zvýšenej koncentrácie doxyciklínu. Dva z týchto proteínov boli identifikované pomocou LC-MS/MS analýzy. Z databáz vyplýva že tieto proteíny sa pravdepodobne zúčastňuju stability bunkovej steny baktérii. Naše predbežné výsledky ukazujú zmeny v expresii proteínov C. burnetii pod vplyvom tetracyklínových derivátov v porovnaní s rodičovským kmeňom. Bolo zistene že jeden z tychto proteínov je TolC transporter, ktorý bol popísany ešte predtým ako proteín zučastňujucí sa v procese bakteriálnej rezistencie. Našim cieľom je počas niekoľkých mesiacov dopňiť a publikovať tieto výsledky.

Vedecké výstupy:

Flores-Ramírez G, Plicova L, Danchenko M, Quevedo-Diaz M, Škultéty Ľ. Tetracycline-stressed proteome of Coxiella burnetii. In ESCCAR- International congress on Rickettsia and other

intracellular bacteria : Abstract book. -Lausanne, Switzerland : University Hospital - CHUV, June 13-16, 2015, omics Poster-73. P. 133.

11.) Úloha ektodomény CA IX v nádorovom raste a metastázovaní *(Role of the CA IX ectodomain in tumor growth and metastasis)*

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	11.11.2014 / 31.12.2016
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Leona Lauder and George Schwab Foundation: 33000 €

Dosiahnuté výsledky:
Zistili sme, že myši, ktorým bola podávaná CA IX-špecifická protilátka, vyvinuli menej metastatických lézií po intravenóznej inokulácii nádorových buniek, než kontrolné myši. Pretože protilátka je namierená voči N-terminálnej časti CA IX molekuly predpokladáme, že v tomto procese hrá úlohu proteoglykánová PG doména CA IX molekuly.
Ukázali sme, že zablokovanie odštiepovania CA IX ektodomény vedie k zrýchlenému rastu subkutánne xenograftovaných primárnych nádorov. Okrem toho sme zistili, že melanómové bunky exprimujúce CA IX s poruchou odštiepovania ektodomény tvoria viac metastáz v pľúcach a tiež metastázy v peritoneu.
Tieto výsledky podporujú názor, že bunkovo-asociovaná forma CA IX je dôležitá pre životaschopnosť a proliferáciu nádorových buniek in vivo.

Programy: Horizont 2020

12.) ***Building-up Centre of Excellence for advanced materials application***

Zodpovedný riešiteľ:	Karol Fröhlich
Zodpovedný riešiteľ v organizácii SAV:	Silvia Pastoreková
Trvanie projektu:	1.6.2015 / 31.5.2016
Evidenčné číslo projektu:	Project No. 664 337 CSA/SGA
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	2 - Fínsko: 2
Čerpané financie:	

Dosiahnuté výsledky: Projekt je v počiatočnej fáze riešenia.

13.) Európsky vírusový archív sa stáva globálnym. *(European virus archive goes global.)*

Zodpovedný riešiteľ:	Boris Klempa
Trvanie projektu:	1.4.2015 / 31.3.2019
Evidenčné číslo projektu:	653316
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Université d'Aix-Marseille
Počet spoluriešiteľských inštitúcií:	25 - Austrália: 1, Nemecko: 4, Francúzsko: 3, Veľká Británia: 3, Švajčiarsko: 1, Čína: 3, Taliansko: 1, Holandsko: 2, Rusko: 3, Slovinsko: 1, USA: 1, JAR: 2
Čerpané financie:	EU: 1963 €

Dosiahnuté výsledky:
Aj keď projekt oficiálne začal už 1.4.2015, kvôli admistratívnym zdržaniam podpisu konzorciálnej zmluvy a následnému oneskorenému poskytnutiu finančných prostriedkov (v decembri 2015) experimentálna práca na projekte ešte nezačala. Napriek tomu sme v rámci pracovného balíka zameraného na zvieracie modely pripravili evaluáciu dostupných modelov v rámci konzorcia vo forme reportu pre Európsku komisiu.

Projekty národných agentúr

Programy: VEGA

1.) Sledovanie vplyvu extraktov slinných žliaz (SGE) z rôznych druhov kliešťov na indukciu a na biologickú aktivitu IFN-lambda 1. *(Effect of salivary gland extracts derived from different tick species on induction and biological activity of interferon-lambda 1.)*

Zodpovedný riešiteľ:	Pavlína Bartíková
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0199/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3698 €

Dosiahnuté výsledky:
Dosiahnuté výsledky:
Pomocou špecifického ELISA kitu pre ľudský rekombinantný interferon lambda-1 (IFN-L1) sme zistili, že extrakty slinných žliaz (SGE) z rôznych druhov kliešťov vykazujú väzobnú aktivitu voči IFN-L1. Túto väzobnú aktivitu sme potvrdili metódou dot-blot, pri ktorej sme zároveň zistili, že niektoré nami testované SGE okrem IFN-L1 viazali aj protilátky voči tomuto interferónu. Táto väzobná aktivita však neinhibovala antivírusovú aktivitu interferónu voči vírusu vezikulárnej stomatitídy (VSV), naopak opracovanie dvoch bunkových línii A549 a Vero s SGE z čiastočne nacicaných samičiek kliešťov Dermacentor reticulatus a Ixodes ricinus spolu s IFN-L1 skôr podporovala túto aktivitu. Ďalej sme potvrdili expresiu interferónu na úrovni RNA aj proteínu v bunkách A549 a zároveň sme dokázali expresiu a indukciu IFN-L1 proteínu vo Vero bunkách po infekcii vírusom VS.

Vedecké výstupy:

Smutná K, Bartíková P, Nováková E: Sledovanie vplyvu extraktov slinných žliaz (SGE) z rôznych druhov kliešťov na biologickú aktivitu IFN-lambda 1. In Študentská vedecká konferencia PriF UK

2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 721 - 726. ISBN 978-80-223-3859-2.

Bartíková P, Štibrániová I, Slovák M, Holíková V, Hajnická V, Nuttall PA: "Tick toxins" target vertebrate host wound healing. In 18th World Congress of the International Society on Toxinology Book of Abstracts. The Examination Schools & The Sheldonian Theatre Oxford: LibPubMedia Ltd, Oxford 2015, p. 144.

Bartíková P, Holíková V, Slovák M, Štibrániová I: Ticks versus immune system: challenges for us. In Modbiolin workshop on Ticks and Tick-Transmitted Diseases 2015 : Abstracts. - Český Krumlov, 2015, p.08.

Bartíková P, Smutná K, Štibrániová I: Do salivary gland extracts from different tick species affect antiviral activity of human interferon lambda 1? In Virologický ústav SAV. Scientific meeting "IV.Labudove dni" Abstract book. - Bratislava : Institute of Virology, Slovak Academy of Sciences, 2015, p. 48. ISBN 978-80-972111-0-3.

2.) Študium terapeutického potenciálu RNA interferencie a interferónov proti infekcii vírusom chrípky *(Therapeutic potential of RNA interference and interferons against influenza virus infection)*

Zodpovedný riešiteľ:	Tatiana Betáková
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0005/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 11088 €

Dosiahnuté výsledky:
Pripravili sme 10 sh RNA proti M génu; 5 shRNA proti M1, 4 shRNA proti M2 a 1shRNA proti spoločnej oblasti pre M1 a M2. Zistili sme, že M1 špecifické mRNA boli signifikatne znížené v bunkách s inhibovanou replikáciou vírusu chrípky. Inhibičný efekt shRNA bol špecifický, M1 špecifické mRNA boli signifikatne znížené v bunkách s inhibovanou replikáciou vírusu chrípky. shRNA proti M génu mali veľmi slabý protektívny účinok in vivo. shRNA proti M2 nemali protektívny účinok in vitro a ani in vivo. V bunkách, v ktorých shRNA inhibovali replikáciu vírusu chrípky bola signifikatne zvýšená hladina mRNA IFN-lambda. Zvýšená hladina mRNA IFN-lambda korelovala so zvýšenou hladinou RIG-1.

Vedecké výstupy:

Svancarova P, Svetlikova D, Betakova T, Induction of interferon lambda in influenza a virus infected cells treated with shRNAs against M1 transcript. Acta Virol, 2015, 59(2):148-155.

Skorvanova L, Svancarova P, Svetlikova D, Betakova T. Protective efficacy of IFN-omega and IFN-lambdas against influenza viruses in induced A549 cells. Acta Virologica, 2015, 59(4):413-417.

Lachova V, Svetlikova D, Skorvanova L, Svancarova P, Sedlakova O, Betakova T. Small hairpin RNAs targeting the NS gene of the influenza A virus do not elevate transcription of IFN-alfa, IFN-beta, IFN-gama, RIG-1 in mice. Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 396 - 401. ISBN 978-80-223-3859-2.

Skorvanova L, Svetlikova D, Lachova V, Svancarova P, Betakova T. Indukcia expresie interferónov a RNA helikázy RIG-I v A549 bunkách infikovaných vírusom chrípky typu A. Lucia Škorvanová, Darina Svetlíková, Veronika Lachová, Petra Švančarová, Tatiana Betáková. Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 704 - 709. ISBN 978-80-223-3859-2.

Skorvanova L, Lachova V, Svancarova P, Svetlikova D, Betakova T. Antivírusová aktivita interferónov lambda voči vírusu typu A. Tomáškovy dny 2014 : XXIII. konference mladých mikrobiologú. - Brno : Masarykova univerzita, 2014, p. 79. ISBN 978-80-210-6805-6.

Lachova V, Skorvanova L, Svetlikova D, Betakova T. Comparison of type I and type III IFNs in A549 cells infected with avian influenza virus. TOMÁŠKOVY DNY 2015 Sborník : XXIV.Konference mladých mikrobiologú. - Brno : Masarykova univerzita Brno, 2015, p. 53. ISBN 978-80-210-7851-2.

Svancarova P, Lachova V, Svetlikova D, Betakova T. Knockdown of NS1 protein by small interfering RNA suppressed NS1 but did not change levels of IFN mRNAs in the cells and mice infected with influenza A virus. In OMICS International Organises. 5th World Congress on Virology - "Anti-Viral Immunity and Countermeasures to Control Disease Pathogenesis" : Book of abstracts. - Atlanta, USA, 2015, p. PVC 104, Journal of Antivirals&Antiretrovirals, 7(4):115, 2015, ISSN: 1948-5964.

3.) Modulácia imunogenicity HA2 imunogénu ako potenciálneho kandidáta na prípravu krížovo-protektívnej chrípkovej vakcíny *(Modulation of immunogenicity of HA2 immunogen as potential candidate for preparation of cross-protective influenza vaccine.)*

Zodpovedný riešiteľ:	Zuzana Bobišová
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0153/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9232 €

Dosiahnuté výsledky:
In silico boli dizajnované nové delečné varianty hemaglutinínu vírusu chrípky s cieľom optimalizovať antigén na indukciu heterosubtypovej imunity voči chripke. Delécia globulárnej HA1 domény pri príprave DNA konštruktu kódujúceho ,,headless" HA bola navrhnutá tak, aby sa hemaglutinín správne posttranslačne poskladal a zachoval si aj po odstránení HA1 domény svoju fuzogénnu aktivitu. Sekvencia pre globulárnu HA1 doménu bola nahradená pomocou mutagénnej PCR sekvenciou pre štyri glycínové zvyšky. DNA pripravených konštruktov bola odvodená z vírusov A/PR8 (H1N1) a A/MISS (H3N2). Správnosť pripravených konštruktov sme overili sekvenáciou a imunofluorescenčne.

Vedecké výstupy:

Janulikova J, Stropkovska A, Bobisova Z, Kosik I, Mucha V, Kostolansky F, Vareckova E. Virus-neutralizing antibody response of mice to consecutive infection with human and avian influenza A viruses. In Acta Virologica : international journal, 2015, vol. 59, no. 2, p. 166-173. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Stropkovska A, Mikuskova T, Bobisova Z, Kosik I, Mucha Vojtech, Kostolansky F, Vareckova E. Immune response of mice to non-adapted avian influenza A virus. In Acta Virologica : international journal, 2015, vol. 59, no. 4, p. 350-359. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Kosik I, Praznovska M, Kosikova M, Bobisova Z, Holly J, Vareckova E, Kostolansky F, Russ G. The Ubiquitination of the Influenza A Virus PB1-F2 Protein Is Crucial for Its Biological Function. In PLoS ONE, 2015, vol. 10, no. 4, p. e0118477, eCollection 2015. (3.234 - IF2014). ISSN 1932-6203.

4.) Charakterizácia transportných dráh CA IX v nádorových bunkách pomocou analýzy v reálnom čase *(Characterization of transport pathways of CA IX in tumor cells via real-time analysis)*

Zodpovedný riešiteľ:	Lucia Csáderová
Zodpovedný riešiteľ v organizácii SAV:	Lucia Csáderová
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0081/14
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7194 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme sa zamerali na identifikáciu miest zodpovedných za internalizáciu CA IX pomocou in vitro mutagenézy potenciálnych internalizačných motívov určených na základe literatúry.
Pripravili sme niekoľko konštruktov s výmenou dvojice leucínov (tzv. dileucínový motív) na rôznych miestach za alaníny. Po ich transientnej transfekcii do karcinómovej línie C33 sme sledovali lokalizáciu mutovanej CA IX a účinnosť jej internalizácie po naviazaní monoklonálnej protilátky Ab20. Zistili sme, že mutácia dileucínového motívu na pozíciach 416 a 418 zabraňuje internalizácii CA IX protilátkou. Naším ďalším cieľom je pripraviť stabilnú bunkovú líniu s týmto neinternalizujúcim mutantom CA IX, charakterizovať jeho vlastnosti a analyzovať vplyv internalizačných mutantov CA IX na biologické vlastnosti nádorových buniek súvisiace s funkciou CA IX (pH regulácia, migrácia).

Vedecké výstupy:

Šimko V, Csaderova L, Labudova M, Pastorek J. Hypoxia - mediated regulation of cAMP : a molecule involved in the activation of the tumor associated carbonic anhydrase IX. In Hypoxia: From Basic Mechanisms to Therapeutics. - Dublin , Ireland : Royal Dublin Society, 2015, p. 55. Dostupné na internete: <www.meetinireland.com>. Typ: AFK

5.) Vyhodnotenie proteínovej expresie Coxiella burnetii v odpovedi na rezistenciu voči antibiotikám *(Evaluation of the protein expression of Coxiella burnetii in response to antibiotic resistance)*

Zodpovedný riešiteľ:	Gabriela Flores-Ramírez
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0173/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9355 €

Dosiahnuté výsledky:
Predbežné výsledky ukázali zmenu v nadbytku proteínov kmeňa C. burnetii Herzenling pod vplyvom tetracyklínových derivátov v porovnaní s parentálnym kmeňom. Použitím hmotnostnej spektrometrie sme identifikovali dva proteíny, ktorých expersia bola výraznejšia v porovnáni s parentálnym kmeňom. Bioniformatická analýza poukazuje na to že by sa tieto proteíny mohli z učastnovať procesu tetracyklinovej rezistencie.

Vedecké výstupy:

Flores -Ramírez, Gabriela, Danchenko, Maksym, Quevedo-Diaz, Marco, Škultéty, Ľudovít. Tetracycline - stressed proteome of Coxiella burnetii. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, June13-16, 2015, omics Poster-73. P. 133.

Flores - Ramírez, Gabriela - Plicová, Lenka - Danchenko, Maksym - Mertens, Katja - Škultéty, Ľudovít. Detection of immunoreactive proteins of Coxiella burnetii using immobilized polyclonal IgGs antibodies. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, June 13-16, 2015, omics Poster-72. P. 132.

Gabriela Flores-Ramirez, Lenka Plicova, Maksym Danchenko, Petr Pompach and Ludovit Skultety. Novel tools for determination of immunoreactive proteins of Coxiella burnetii using immobilized polyclonal IgGs antibodies.Mediterranean Sea Region Countries Mass Spectrometry Workshop (MEDMS III). Athens, Greece June 28 to July 2, 2015.

Gabriela Flores-Ramirez,Lenka Plicova, Maksym Danchenko & Ludovit Skultety. Immobilized polyclonal antibodies isolated from patient sera for detection of immunoreactive proteins of Coxiella burnetii. 2nd workshop on Q-fever. Konfererenzraum des Universittsklinikums, Jena, Germany.April 1,2015.

G. Flores-Ramirez, M. Danchenko, L. Plicova, L. Skultety Immobilized polyclonal antibodies: Efficient tool for the reliable detection of immunoreactive proteins of Coxiella burnetii. IX Central and Eastern European Proteomics Conference, p. 30, Poznan, Poland, 15-18/06/2015

6.) Úloha karbonickej anhydrázy IX v nádorovom metabolizme: regulácia, funkcia a klinický význam *(The role of carbonic anhydrase IX in tumor metabolism: regulation, function and clinical significance)*

Zodpovedný riešiteľ:	Adriana Gibadulinová
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0155/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9566 €

Dosiahnuté výsledky:
V rámci výskumu úlohy hypoxiou-indukovanej karbonickej anhydrázy IX (CA IX) v nádorovom metabolizme a terapii sme sledovali dva typy bunkových modelov: (1) bunky s potlačenou expresiou CA IX a (2) bunkové línie derivované z karcinómu prsníka (pre ďaľšie štúdium a validáciu našich výsledkov na klinických vzorkách tkanív a sér pacientiek s nádormi prsníka), v ktorých je CA IX hypoxiou indukovaná.
Zistili sme zmeny v expresii CA IX po opracovaní terapeutikami paclitaxel, etopozid a camptotecín, ako aj zmenenú senzitivitu buniek s potlačenou expresiou CA IX k uvedeným terapeutikám, výraznejšiu v hypoxii. Po hypoxii separované CA IX+ and CA IX- línie karcinómu prsníka mali

odlišnú schopnosť tvoriť kolónie po opracovaní terapeutikami, s rozdielnou expresiou markerov kmeňových buniek, ako aj niektorých metabolických enzýmov.

7.) Využitie genomických dát hospodársky dôležitých vírusov viniča hroznorodého pre optimalizáciu detekčných techník a vývoj progresívnych metód ochrany proti vírusovej infekcii. *(Use of the genome data of economically important grapevine viruses for optimisation of detection tools and development of innovative protection methods against viral infection.)*

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	VEGA 2/0060/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9461 €

Dosiahnuté výsledky:
Nové alebo novo sa objavujúce (tzv. emerging) vírusy majú potenciál spôsobovať závažné a hospodársky významné ochorenia viniča hroznorodého. Vďaka aplikácii sekvenácie novej generácie (NGS) sme po prvýkrát v strednej Európe vo vzorke viniča zistili prítomnosť dvoch nedávno objavených vírusov – vírusu viniča Pinot gris (GPGV) a vírusu viniča Syrah-1 (GSyV-1). Určili sme kompletné a parciálne sekvencie genómu viacerých GPGV a GSyV-1 izolátov, čo nám umožnilo zhodnotiť ich molekulárnu diverzitu a vyvinúť postupy na ich spoľahlivú špecifickú RT-PCR detekciu. Pri oboch vírusoch sme zistili ich široké zastúpenie vo výsadbách na Slovensku, najčastejšie v zmesných infekciách. Parciálne sekvenčná analýza slovenských izolátov vírusu viniča A (GVA) a vírusu viniča zvinutky-1 (GLRaV-1) odhalila ich vysokú variabilitu a existenciu rôznych fylogenetických skupín. V prípade GVA sme naviac zistili značnú vnútroizolátovú heterogenitu a prítomnosť odlišných molekulárnych variantov v rastline viniča, čo môže komplikovať polyvalentnú detekciu a štúdium etiológie patogéna. Získané výsledky sú využiteľné v rutinnej diagnostike vírusov viniča, pri zavádzaní účinných fytosanitárnych opatrení a analýze rizík jednotlivých patogénov. Pripravili sme infekčný klon vírusu viniča Pinot gris (GPGV, izolát SK30) a overili jeho infekčnosť na Nicotiana clevelandii a N. benthamiana, ktoré boli úspešne infikované mechanickou ako aj biolistickou metódou.

Vedecké výstupy:

Glasa M, Predajňa L, Šoltys K, Sabanadzovic S, Olmos A. Detection and molecular characterisation of Grapevine Syrah virus-1 isolates from Central Europe. Virus Genes 2015 Aug;51(1):112-21. doi: 10.1007/s11262-015-1201-1

8.) Hantavírusy a prekračovanie druhových bariér
(Hantaviruses and crossing of the species barriers)

Zodpovedný riešiteľ:	Boris Klempa
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0174/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9240 €

Dosiahnuté výsledky:
Cieľom tohto projektu je študovať determinanty hantavírusového hostiteľského okruhu pomocou in vitro experimentov sledujúcich potenciálne hostiteľské bariéry.Pokusy budú postavené na nových bunkových líniách derivovaných z rôznych divožijúcich hlodavcov a budú zamerané na receptorové molekuly a komponenty vrodenej imunity ako predpokladané determinanty vírusového hostiteľského okruhu. V prvom roku projektu sa nám podarilo v spolupráci s pracoviskami Institute of Virology, Charité - School of Medicine, Berlín a Bonn University Medical Center, Bonn z Nemecka etablovať obličkové epiteliálne bunky z hostiteľských druhov hantavírusu Dobrava-Belgrade (DOBV), myší druhov ryšavka žltokrká (APodemus flavicollis) a ryšavka tmavopása (Apodemus agrarius). Tieto boli následne využité pre sériu in vitro experimentov s využitím dvoch rôznych kmeňov DOBV s cieľom ukázať vhodnosť použitých bunkových línií pre ďalšie experimenty a porovnať schopnosť vírusu sa replikovať v týchto bunkách. V ďaľšom kroku bola vykonaná transkripčná analýza s využitím metodiky MACE (Massive Analysis of cDNA Ends), ktorej výsledky sú v súčasnosti spracovávané.

Vedecké výstupy:
Radosa L, Eckerle I, Ulrich RG, Stanko M, Kruger DH, Klempa B. Towards establishment of in vitro systems for hantavirus reservoir hosts as non-model organisms. In 25th Annual meeting of the Society for Virology : Gesellschaft für Virologie e. V. (GfV) und Deutsche Vereinigung zur Bekämpfung der Viruskrankheiten e. V. (DVV). - Bochum : Ruhr-University Bochum, 2015, p. P336.

9.) Molekulové dráhy regulované karbonickou anhydrázou IX v hypoxických nádorových bunkách *(Molecular pathways influenced by CA IX in hypoxic cancer cell lines)*

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0147/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7605 €

Dosiahnuté výsledky:
V úvodnej časti projektu sme optimalizovali podmienky kultivácie buniek za hypoxických podmienok a taktiež optimalizovali podmienky siRNA silencingu pre následné analýzy s využitím “protein kinase array”. Následne boli uskutočnené proteínové array pričom sme identifikovali viacero proteínov s rozdielnou hladinou fosforylácie za podmienok siRNA silencingu, pričom proteín STAT3 vykazoval najmarkantnejšie rozdiely. Naše výsledky sme prezentovali na konferencii medzinárodnej spoločnosti pre nádorový metabolizmus.

10.) Štruktúrno-funkčné štúdie konzervatívnych proteínov vírusov chrípky v hostiteľskom prostredí... *(Structural and functional studies of conservative proteins of influenza viruses in host's environment.)*

Zodpovedný riešiteľ:	František Kostolanský
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0100/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6037 €

Dosiahnuté výsledky:
Študovali sme tvorbu špecifickej protilátkovej odpovede voči vírusom chrípky (IAV) u myší primárne infikovaných vtáčím IAV. Tiež sme sledovali ako ovplyvní imunitu myší nadobudnutú po primárnej infekcii ľudským IAV následná (sekundárna) infekcia vtáčím IAV. V týchto experimentoch viedla sekundárna infekcia k signifikantnému nárastu protilátok špecifických k ľudskému vírusu, použitému pre primárnu infekciu. Predpokladáme, že tento efekt simuluje situáciu v prírode, kedy jedinci predtým infikovaní ľudskými IAV prichádzajú do kontaktu s vírusmi vtáčieho hostiteľa.

Vedecké výstupy:

Janulikova J, Stropkovska A, Bobisova Z, Kosik I, Mucha V, Kostolansky F, Vareckova E. Virus-neutralizing antibody response of mice to consecutive infection with human and avian influenza A viruses. In Acta Virol. 2015 59 (2): 166-73.

Stropkovska A, Mikuskova T, Bobisova Z, Kosik I, Mucha Vojtech, Kostolansky F, Vareckova E. Immune response of mice to non-adapted avian influenza A virus. Acta Virol. 2015 59 (4): 350-59.

Skalickova S, Heger Z, Krejcova L, Pekarik V, Bastl K, Janda J, Kostolansky F, Vareckova E, Zitka O, Adam V, Kizek R. Perspective of use of antiviral peptides agaainst influeenza virus. Viruses 2015 7 (10): 5428-42.

Kosik I, Praznovska M, Kosikova M, Bobisova Z, Holly J, Vareckova E, Kostolansky F, Russ G. The Ubiquitination of the Influenza A Virus PB1-F2 Protein Is Crucial for Its Biological Function. PLoS ONE 2015 10 (4): 0118477, eCollection 2015.

11.) Úloha posttranslačných modifikácií proteínov vírusu chrípky typu A a ich vplyv na infekčný cyklus *(Posttranslation modifications of the influenza A virus proteins and its role during the infection cycle)*

Zodpovedný riešiteľ:	Ivan Košík
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0152/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5672 €

Dosiahnuté výsledky:
Kosik I, Praznovska M, Kosikova M, Bobisova Z, Holly J, Vareckova E, Kostolansky F, Russ G. The Ubiquitination of the Influenza A Virus PB1-F2 Protein Is Crucial for Its Biological Function. In PLoS ONE, 2015, vol. 10, no. 4, p. e0118477, eCollection 2015. (3.234 - IF2014). ISSN 1932-6203.

Janulikova J, Stropkovska A, Bobisova Z, Kosik I, Mucha V, Kostolansky F, Vareckova E. Virus-neutralizing antibody response of mice to consecutive infection with human and avian influenza A viruses. In Acta Virologica : international journal, 2015, vol. 59, no. 2, p. 166-173. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Stropkovska A, Mikuskova T, Bobisova Z, Kosik I, Mucha Vojtech, Kostolansky F, Vareckova E. Immune response of mice to non-adapted avian influenza A virus. In Acta Virologica : international journal, 2015, vol. 59, no. 4, p. 350-359. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

12.) Myší herpetický vírus ako model na štúdium ľudských onkogénnych herpesvírusov: vírusový imunomodulátor M3 proteín a faktory významné pre šírenie vírusu medzi hostiteľmi *(Murine herpesvirus, a model to study human oncogenic herpesviruses: viral imunomodulator M3 protein and factors important for virus spread among hosts)*

Zodpovedný riešiteľ:	Marcela Kúdelová
Trvanie projektu:	1.1.2013 / 31.1.2016
Evidenčné číslo projektu:	2/0091/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 10958 €

Dosiahnuté výsledky:
Stanovili sme väzbovú aktivitu voči ľudským chemokínom CCL5 (RANTES), CXCL8 (IL-8) a CCL3 (MIP-1?) troch M3 proteínov pripravených v E. coli bunkách Rosetta-Gami 2 (DE3), MHV-68 M3 proteínu s úplnou sekvenciou a skráteného o signálnu sekvenciu (o prvých 24 aa) a MHV-72 M3 proteínu s úplnou sekvenciou. Výsledky poukázali na význam signálnej sekvencie, ako aj iba jedinej mutácie, pre efektívnu väzbu M3 proteínu k niektorým chemokínom, keď skrátený MHV-68 M3 proteín mal asi dvadsaťkrát zníženú väzbovú aktivitu k CCL5 a väzba k všetkým chemokínom kompletného v dĺžke MHV-72 M3 proteínu bola znížená v porovnaní s MHV-68 M3 proteínom (o jeden rád u CCL5 a približne sedemkrát u CCL3). V štúdiu prítomnosti MHV-68 u kliešťov žijúcich na území Slovenska sme molekulárnymi metódami testovali kliešte D. reticulatus zozbierané z vegetácie. Ako vírus pozitívne sme identifikovali 40% (125/312) kliešťov z Vojky a 23,3% (28/120) z Gabčíkova. Kokultivačnou a explantačnou metódou sme v slinných žľazách, črevách a vaječníkoch piatich samíc identifikovali MHV-68, ktorý bol schopný sa replikovať v bunkách VERO, čo podporuje hypotézu, že kliešte by mohli zohrávať úlohu v kolobehu MHV-68 v prírode.

Vedecké výstupy:

Kúdelová M, Belvončíková P, Vrbová M, Kovaľová A, Štibrániová I, Kocáková P, Slovák M, Špitalská E, Lapuníková B, Matúšková R, Šupolíková M (2015).Detection of Murine herpesvirus 68 in Dermacentor reticulatus ticks, Microbial Ecology,70,785-794,(IF2014 2,973)

Matúšková R, Pančík, P, Štibrániová I, Belvončíková P, Režuchová I, Kúdelová M (2015). Soluble M3 proteins of murine gammaherpesviruses 68 and 72 expressed in Escherichia coli: analysis of chemokine binding properties Acta Virol 59(4),pp 360-368

Matúšková R, Belvončíková P, Pančík P, Kúdelová M (2015) Production of native recombinant M3 protein of Murine gammaherpesvirus 68 in E.coli ŠVK PrirF UK, Bratislava, 22. apríl 2015,ISBN 978-80-223-3859-2, pp 519-524

Kovaľová A, Vrbová M, Špitalská E, Slovák M, Kabát P, Derka T, Števove B, Bohuš M, Kúdelová M (2015). Molekulárna detekcia MHV-68 u voľne žijúcich kliešťov zozbieraných zo šiestich lokalít Slovenska ŠVK PriF UK,pp 378-383

Vrbová M, Kovaľová A, Belvončíková P, Slovák M, Špitalská E, Kabát P, Šupolíková M, Kúdelová M (2015) Detection of Murine herpesvirus 68 (MHV- 68) in adult Dermacentor reticulatus ticks using molecular methods ŠVK PriF UK, Bratislava,pp 828-832

Kudelova M, Belvoncikova P, Šupolikova M, Betakova T, Golais F (2015) Murine gammaherpesvirus – newly discovered properties of MHV-68. In OMICS International Organises. 5th World Congress on Virology- “Anti-Viral Immunity and Countermeasures to Control Disease Pathogenesis”. December 05-09, Atlanta, USA, 2015, In: Journal of Antivirals & Antiretrovirals, 2015, vol. 7, no. 4, p. 16. (1.270 - IF2014). ISSN 1948-5964, Dostupné na internete:

www.virology.omicsgroup.com

Matúšková R, Kúdelová M, (2015) Site directed mutagenesis of grnr encoding immunomodulatory M3 protein of Murine gammaherpesvirus 68. XXIV. Tomasek days, 4.-5. 6. 2015, Brno,ISBN, 978-80-210-7851-2,p60

Vrbová M, Kovaľová A, Špitálska E, Slovák M, Kabát P, Derka T, Števove B, Bohuš M, Šupolíková M, Kúdelová M(2015). Molecular detection of Murine gammaherpesvirus 68 in wild hard ticks in western, southwestern, and middle Slovakia, XXIV. Tomasek days, p69

Matúšková R, Belvončíková P, Pančík P, Kúdelová M, (2015) Analysis of anti-chemokine activity of recombinant M3 protein of Murid herpesvirus 4 prepared in E. coli. Hot Topics in Microbiology, 23th-26th April 2015, Štrbské Pleso, Slovakia, ISBN, 978-80-971422-3-0,p46

Vrbová M, Belvončíková P, Špitalská E, Slovák M, Šupolíková M, Kúdelová M(2015). Molecular detection of MHV-68 in wild ticks Dermacentor reticulatus. Hot Topics in Microbiology, p35-36

13.) Objasnenie mechanizmov perzistentnej infekcie a šírenia vírusu Lymfocytárnej choriomeningitídy *(Characterisation of some mechanisms of persistence and spreading of the lymphocytic choriomeningitis virus)*

Zodpovedný riešiteľ:	Martina Labudová
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0146/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7401 €

Dosiahnuté výsledky:
Projekt bol zameraný na štúdium vplyvu prítomnosti keratínu 1 na prenos vírusu LCM počas perzistentnej infekcie. Projekt bol navrhnutý na základe predchádzajúcich výsledkov, kde sme zistili, že nukleoproteín vírusu LCM sa viaže na K1. Sledovaním správania sa vírusu v prítomnosti alebo neprítomnosti K1 sme chceli zistiť vplyv tohoto proteínu na priebeh perzistentnej infekcie. Počas riešenia tohoto projektu sme zistili, že: 1.) vírus na svoje šírenie nevyhnutne nepotrebuje prítomnosť K1; (v prípade kmeňa MX), 2.) v neprítomnosti K1 síce dochádza k infekcii ale jej priebeh je veľmi spomalený; 3.) v infikovaných bunkách ktoréhokoľvek kmeňa dochádza k zvýšenej expresii dezmozómov, aktínovej siete a K1. Tieto poznatky prispejú k lepšiemu porozumeniu priebehu šírenia vírusu v organizme a perzistentnej infekcie. Popri riešení hlavnej témy projektu, sme zistili, že po infekcii buniek obličkového karcinómu (RCC4 a RCC4 VHL) vírusom LCM došlo k zmene expresie dôležitého markera nádorovej hypoxie karbonickej anhydrázy IX (CAIX). V bunkách obličkového karcinómu došlo k drastickému zníženiu hladiny expresie CAIX, čo by mohlo mať dôležitý význam pri liečbe tohoto závažneho ochorenia pomocou protilátok (Ševčíková et al., Expression of CAIX in RCC4).
Všetky tieto výsledky bud publikované v torch článkoch, ktoré sú momentálne v rozpracovanom stave.

Vedecké výstupy:

Ševčíková A, Šimko V, Pastoreková S, Pastorek J, Labudová M: Lymphocytic choriomeningitis virus infection affectes the carbonic anhydrase 9 expression through the HIF-1alpha signalisation pathway in renal carcinoma cell line. XXIV Biochemický zjazd SSBMB a ČSBMB, Bratislava 2014, str.182

Labudová M: Interakcia vírusu lymfocytárnej choriomeningitídy s bunkou a jej dôsledky. prednáška. Sympózium k aktuálnym problémom súčasnej transplantológie, Bratislava 2014, str.

Labudová M, Zdurienčíková M, Ditte P, Pastorek J, Pastoreková S: The role of keratin 1 in lymphocytic choriomenimgitis virus infection. poster 26. kongres Československej mikrobiologickej spoločnosti, Brno 2013, str. 149

Ševčíková A, Labudová M, Šimko V, Zaťovičová M, Csáderová L, Pastoreková S, Pastorek J: Vplyv perzistentej infekcie vírusu LCM kmeňa MX na expresiu karbonickej anhydrázy IX v nádorových bunkách obličiek. Interaktívna konferencia mladých vedcov 2015. ISBN: 978-80-970712-8-8

Labudová M, Pastoreková S, Pastorek J: Lymphocytic choriomeningitis virus: ways to establish and maintain non-cytolytic persistent infection. Acta Virologica, 2016, in press

14.) Biologické a väzobné vlastnosti klinicky významných vírusových imunomodulátorov a ich imunoterapeutický potenciál. *(Biological and binding properties of clinically significant viral immunomodulators and their immunotherapeutic potential.)*

Zodpovedný riešiteľ:	Ivana Nemčovičová
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	02/0103/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	VEGA: 5173 €

Dosiahnuté výsledky:
V rámci prvej časti projektu sme sa zamerali na štúdium génových produktov kódovaných virulentným kmeňom ľudského cytomegalovírusu (HcmvUL141 a HcmvUL144) a ako sa tieto gény vyvinuli modulovať ľudský imunitný systém vytváraním väzieb s ich endogénnymi partnermi (HuTRAIL, HuTRAIL-R1, -R2, -R3, -R4). Úspešne sme pripravili plasmidové konštrukty vhodné k expresii proteínov hneď vo viacerých expresných systémoch (vrátene eukaryotických a prokaryotických). Zistili sme, že najvhodnejším zdrojom rekombinantných vírusových proteínov HcmvUL141 a HcmvUL144 je expresia v hmyzích bunkách Sf9 a Sf21, pričom najefektívnejšia expresia ľudských receptorov sa ukázala v cicavčom 293F a 293T bezsérovom sýstéme.

Vedecké výstupy:

Nemcovicova I, Nemcovic M, Kudelova M, Benedict CA, Zajonc DM. New insight into strategies employed by HCMV in immunomodulation. J Antivir Antiretrovir. 2015 Dec;7:4.

15.) Proteomická analýza interakcie vírus šarky slivky (PPV)/čerešňa (Prunus avium) a faktorov adaptácie vírusu na hostiteľa. *(Proteomic analysis of the plum pox virus (PPV) / Prunus avium (cherry) interaction and factors of the virus adaptation to the host.)*

Zodpovedný riešiteľ:	Slavomíra Nováková
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0124/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5376 €

Dosiahnuté výsledky:
Naoptimalizovali sme zloženie proliferačného, elongačného a zakoreňovacieho média pre in-vitro kultiváciu čerešní (Prunus avium). Súčasne sme zistili, že PPV (Plum pox virus) inokulovaný mikrograftingom (vrúbľovaním) do in-vitro kultúry je natoľko nerovnomerne distribuovaný, že iba 7 zo 40 in-vitro zakorenených rastlín bolo pozitívne detekovaných na prítomnosť vírusu. Na analýzu proteínových profilov interakcie PPV/hostiteľ a faktorov adaptácie vírusu na hostiteľa bol preto optimalizovaný protokol extrakcie proteínov z bylinného experimentálneho hostiteľa PPV - Nicotiana benthamiana. Modifikovaný protokol bol použitý aj na extrakciu proteínov z cukety pre proteomickú analýzu interakcie ďalšieho potyvírusu a jeho prirodzeného hostiteľa, ZYMV (Zucchini yellow mosaic virus) a cukety, pomocou 2-D elektroforézy.

Vedecké výstupy:

Novakova S., Flores-Ramirez G., GlasaM., Danchenko M.,Fiala R., Skultety L. Partially resistant Cucurbita pepo showed late onset of the Zucchini yellow mosaic virus infection due to rapid activation of defense mechanisms as compared to susceptible cultivar. Frontiers in Plant Science, 2015, vol. 6, p. 263, eCollection 2015.

16.) Štúdium mechanizmov imunitnej odpovede hostitela na Rickettsia akarii a jeho variantu rezistentného na antibiotika *(Mechanism of Innate Immune responsiveness to Rickettsia akarii and it antibiotic resistance variant.)*

Zodpovedný riešiteľ:	Marco Quevedo Diaz
Trvanie projektu:	1.1.2012 / 21.12.2015
Evidenčné číslo projektu:	2/0193/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3822 €

Dosiahnuté výsledky:
My sme pokračovali s charakterizaciou R. akari antibiotic-rezistentného varianta (RAZC). Analýza lyzátov divokého kmeňa R. akari a RAZC pomocou western blotu ukázala markantne rozdiely v imunoreaktivite. Len málo predominantne pásy boli rozpoznane u RAZC (60, 50, 14 kDa) co vyznačuju proteinove zmeny pod vplyvom antibiotika.
Pomocou MALDI sme identifikovali 3 imunogénnych proteínov u RAZC. 60 kDa chaperonin (UniProt A8GPB6), diaminopimelát epimeráza (UniProt A8GND7) a necharakterizovaný proteín (UniProt ID A8GP94).
Detegovali sme významnu zmenu v proteínovej sekvencii VacJ u RAZC na pozicii 76 (Thr-Met) čo podporuje hypotézu že VacJ hrá úlohu pri tvorbe plákov u divokého kmeňa.

17.) Štúdium indukovanej reaktivácie ľudských onkogénnych herpesvírusov na modeli latentne infikovanej myši s Myším herpesvírusom *(Study on induced reactivation of human oncogenic herpesviruses on the model of mice latently infected with)*

Zodpovedný riešiteľ:	Ingeborg Režuchová
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0185/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9227 €

Dosiahnuté výsledky:
Charakterizovali sme kmeňovo špecifické rozdiely v navodení latencie a schopnosti reaktivácie medzi troma kmeňmi MuHV-4. Naše výsledky ukázali, že kmene MHV-72 a MHV-4556 majú oproti prototypovému MHV-68 signifikantný deficit v schopnosti navodiť latenciu v slezine. Navyše, MHV-72 má redukovanú schopnosť navodiť latenciu aj v pľúcach a týmuse, kým MHV-4556 a MHV-68 navodzujú latenciu v týchto orgánoch podobne. Charakterizovali sme aj schopnosť týchto vírusov reaktivovať sa z latencie ex vivo a in vivo po stimulácii s inhibítorom histónových deacetyláz, trichostatínom A (TSA). Zistili sme, že MHV-72 a MHV-4556 majú oproti MHV-68 významný deficit v ex vivo reaktivácii z pľúc, sleziny a týmusu. Na druhej strane, tieto dva kmene sú schopné reagovať na in vivo stimuláciu reaktivácie s TSA miernym nárastom počtu kópií genómu v latentnom tkanive. V tejto súvislosti sme zistili, že MHV-72, MHV-4556 a MHV-68 sa neodlišujú v sekvencii hlavného replikačno-transkripčného aktivátora, Rta (ORF50) a ani v jeho epigenetickej regulácii počas lytickej infekcie, latencie a ex vivo ako aj in vivo indukovanej reaktivácie. Potvrdili sme, že TSA spôsobuje účinnú pasívnu demetyláciu Rta promótora všetkých troch kmeňov. Usudzujeme preto, že unikátne patogenetické vlastnosti MHV-72 a MHV-4556, hlavne ich odlišná schopnosť navodiť latenciu v slezine, musia súvisieť s iným/mi génom/mi, v ktorých sa tieto dva kmene odlišujú od prototypového MHV-68.

Vedecké výstupy:
Lapuníková B., Lopušná K., Benkóczka T., Golais F., Kúdelová M., Režuchová I. Epigenetic modification of Rta (ORF50) promoter is not responsible for distinct reactivation patterns of murine gammaherpesviruses. Acta Virol. 2015, 59 (4); 405–412. doi:10.4149/av_2015_04_405.

Lapuníková B., Lopušná K., Benkóczka T., Golais F., Kúdelová M., Režuchová I. The epigenetic status of murine gammaherpesvirus Rta promoter during latency and reactivation. In Student research conference PriF UK 2015: conference proceedings. Eds: Galamboš M., Džugasová V., Ševčovičová A., Vataha M. – Bratislava: Comenius University in Bratislava, 2015, p. 413-418. ISBN 978-80-223-3859-2.

Lopušná K., Benkóczka T., Lapuníková B., Kúdelová M., Kabát P., Režuchová I. Interferon-lambda signal transduction during gammaherpesvirus latency. In Student research conference PriF UK 2015: conference proceedings. Eds: Galamboš M., Džugasová V., Ševčovičová A., Vataha M. – Bratislava: Comenius University in Bratislava, 2015, p. 453-458. ISBN 978-80-223-3859-2.

Lopušná K, Benkóczka T, Kúdelová M, Lapuníková B, Kabát P, Režuchová I (2015) Type III interferons signaling network: a new approach in understanding of cancer signaling. XXIV. Tomasek days, 4.-5. 6. 2015, Brno, Czech Republic, ISBN 978-80-210-7851-2, p38
Lapuníková B, Lopušná K, Benkóczka T, Kúdelová M, Golais, F, Režuchová I (2015) Characterization of latency and in vivo induced reactivation of murine gammaherpesviruses, XXIV. Tomasek days, p55

Benkóczka T, Lopušná K, Lapuníková B,, Kúdelová M, Režuchová I (2015) Expression of type III interferons during infection with murine gammaherpesviruses in vitro. XXIV. Tomasek days, p43

18.) Polyfázický prístup k analýze molekulárnych dát získaných skúmaním rickettsií, Coxiella burnetii a im podobných mikroorganizmov. *(Polyphasic analysis of molecular data obtained by examining of the Rickettsiae, Coxiella burnetii and similar microorganisms.)*

Zodpovedný riešiteľ:	Zuzana Sekeyová
Trvanie projektu:	1.1.2015 / 30.12.2017
Evidenčné číslo projektu:	2/0005/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5790 €

Dosiahnuté výsledky:
1. Cieľom prvej štúdie (viď publikácia č. 1) bola analýza krvných vzoriek získaných od rôznych druhov vtákov, ako aj ich parazitov, kliešťov a potvrdenie prítomnosti rickettsiálnych či koxielových nákaz v týchto hostiteľoch aj vektoroch pomocou molekulárne biologických metód. Parus major bol najviac infikovaným zo všetkých sledovaných vtákov. Dokázali sme prítomnosť a možný prenos pomocou vtákou tak rickettsiálnych nákaz ako aj koxielóz.

2. Cieľom druhej štúdie (viď publikácia č. 2) bolo sledovať rôzne biochemické a morfologické zmeny, ktoré môžu nastať v cerebrokortikálnych bunkách ako dôsledok rickettsiálnej infekcie. Naše výsledky ukázali redukciu prežívania neurónov, ktorá sa prejavuje poklesom hladiny adenozín trifosfátu (ATP). Uvedený pokles ATP koreluje so vzrastajúcou infekčnou dávkou rickettsií. Imunoflurescenčne sme potvrdili, že rickettsiae sú schopné internalizácie do neurónov v ktorých sú lokalizované najmä v perinukleárnej oblasti. Údaje, ktoré sme získali v rámci tejto štúdie korešpondujú s názorom, že určité rickettsiae môžu byť aktívnym článkom v etiopatológii rôznych neuropatií.

3. Cieľom tretej štúdie (práca bola zaslaná do PLOS ONE) bolo preskúmať úlohu parazitických osičiek Ixodiphagus hoookeri pri prenose infekcií spôsobených baktériami Arsenophonus nasoniae alebo Rickettsiami. Dokázali sme, že prítomnosť A. nasoniae v kliešťoch je viazaná výlučne na prítomnosť uvedenej parazitickej osičky. Ďalej sa nám podarilo po prvý krát potvrdiť prítomnosť dvoch rickettsií, R. helvetica a R. monacensis v parazitických osičkách. Priebežne pracujeme na ďalších pokusoch, ktoré by potvrdili či vyvrátili možný transštadiálny prenos uvedených baktérií cez I. hookeri.

Vedecké výstupy:

Berthová L, Slobodník V, Slobodník R, Olekšák M, Sekeyová Z, Svitálková Z, Kazimírová M, Špitálska E. The natural infection of birds and ticks feeding on birds with Rickettsia spp. and Coxiella burnetii in Slovakia. In Experimental & Applied Acarology, 2015, vol., no., p. Epub ahead. (1.622 - IF2014). (2015 - Current Contents). ISSN 0168-8162.

Bohácsová M, Filipčík P, Opattová A, Valáriková J, Quevedo-Diaz M, Škultéty Ľ, Novák M, Sekeyová Z. Survival of rat cerebrocortical neurons after rickettsial infection. In Microbes and Infection, 2015, vol. 17, no. 11-12, p. 845-849. (2.861 - IF2014). (2015 - Current Contents). ISSN 1286-4579.

Lieskovská N, Berthová L, Sekeyová Z. Dôkaz rickettsií v krvi a sérach psov Slovenska. In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 436 - 441. ISBN 978-80-223-3859-2. Dostupné na internete: <http://2015.svkprifuk.info/zbornik2015.pdf>.

Valáriková J, Sekeyová Z, Bohácsová M, Berthová L, Quevedo-Diaz M. New effective method of purification of rickettsiae employing digitonin. In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 789 - 793. ISBN 978-80-223-3859-2. Dostupné na internete: <http://2015.svkprifuk.info/zbornik2015.pdf>.

Škultéty Ľ, Flores - Ramírez G, Sekeyová Z, Danchenko M. Virulence Associated Biomarkers of Coxiella Burnetii by Mass Spectrometry. In Indian Society for Mass Spectrometry. 29th ISMAS : 29th ISMAS International Symposium on Mass Spectrometry. Eds. Aggarwal S.K, Kumar P, Jaison P.G, Sarkar A, Telmore V. - Vivanta by Taj Hari Mahal Jodhpur, Rajasthan 342 001, INDIA : Opp.Anthony Motors Pvt. Ltd., 2015, p. 39 - 41. ISBN 978-81-904442-7-9. Dostupné na internete: <www.ismas.org>.

Bohácsová M, Mediannikov O, Kazimírová M, Raoult D, Sekeyová Z. ARSENOPHONUS NASONIAE IS DETECTED IN TICKS ONLY BECAUSE OF THE PRESENCE OF PARASITIC WASPS. In IV. Labudove dni". Abstract book. - Bratislava : Institute of Virology, Slovak Academy

of Sciences, 2015, p. 16. ISBN 978-80-972111-0-3.

Bohácsová M, Mediannikov O, Kazimírová M, Raoult D, Sekeyová Z. Detection of Arsenophonus nasoniae and Rickettsiae in the parasitic wasp Ixodiphagus hookeri. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, 2015, reservoirs & Vectors. Poster-87. P. 147.

Quevedo-Diaz M, Valáriková J, Bohácsová M, Flores - Ramírez G, Sekeyová Z. Characterization of Rickettsia acari resistance to zeonin abd carbenicillin. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, 2015, pathogenesis & Immunity Poster-77, P. 137.

Sekeyová Z, Bohácsová M, Opattová A, Valáriková J, Quevedo-Diaz M, Novák M, Filipčík P. The impact of rickettsial infection on rat corticohippocampal neurons. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, 2015, pathogenesis & Immunity Poster-76. P. 136.

Valáriková J, Sekeyová Z, Bohácsová M, Quevedo-Diaz M. Expression of Rickettsia acari genes involved in the biosynthesis of peptidoglycan. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, 2015, cell biology: Poster 2 , P. 61.

19.) Proteomická analýza interakcie hostiteľa s patogénnou baktériou Coxiella burnetii *(Proteomic analyses of the interaction of host with pathogenic bacterium Coxiella burnetii)*

Zodpovedný riešiteľ:	Ľudovít Škultéty
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	VEGA2/0144/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8120 €

Dosiahnuté výsledky:
Naprodukovali sme makrofágom podobné bunky odvodené z monocytovej bunkovej línie THP-1 a uvedenú modelovú bunkovú líniu sme infikovali bunkami patogénneho kmeňa izolovaného z ľudského srdca, ktoré bolo poškodené endokarditídou - C. burnetii kmeň S vo fáze I. Našim zámerom bolo použiť prirodzene vyskytujúci sa infekčný kmeň, keďže už v minulosti boli popísané mnohé rozdiely v reakciách na infekciu C. burnetii medzi fázou I a II. Fáza II má totiž potlačenú odpoveď na LPS.

20.) Úloha vtákov a cicavcov v cirkulácii vektormi prenášaných baktérií a krvných parazitov v urbánnych a silvatických ohniskách *(The role of birds and mammals in the circulation of vector-borne bacteria and blood parasites in urban and sylvatic foci)*

Zodpovedný riešiteľ:	Eva Špitalská
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0061/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Vega: 8456 €

Dosiahnuté výsledky:
Epidemiologické a epizootologické štúdie rickettsií sú dôležité, nakoľko cirkulácia rickettsií v prírode nie je ešte stále kompletne známa. Zamerali sme sa na úlohu hostiteľov a úlohu ďalších ektoparazitov v cirkulácii rickettsií. Zhrnuli sme dôležitosť a potenciálnu úlohu migrujúcich vtákov v prenose ektoparazitov a patogénov medzi geografickými lokalitami. Našimi štúdiami sme rozšírili druhové spektrum poznaných rickettsií na Slovensku. Zaznamenali sme po prvýkrát výskyt druhu Rickettsia felis v blche Ceratophylus solutus odobratej z Apodemus agrarius v Botanickej záhrade v Košiciach. Ide o etiologický agens spôsobujúci „flea-borne spotted fever" s klinickými príznakmi podobnými malárii a horúčke dengue. Avšak okrem toho sme v blchách identifikovali aj patogénny druh R. helvetica a endosymbiotické rickettsie. Presná úloha bĺch v cirkulácii týchto rickettsií zatiaľ objasňovaná nebola.

Vedecké výstupy:

Sparagano O, George D, Giangaspero A, Špitalská E. Arthropods and associated arthropod-borne diseases transmitted by migrating birds. The case of ticks and tick-borne pathogens. Vet Parasitol, 2015, 213:61-66.

Špitalská E, Boldiš V, Mošanský L, Sparagano O, Stanko M. Rickettsia species in fleas collected from small mammals in Slovakia. Parasitol Res. 2015, 114:4333-4339.

21.) Bioaktívne látky v slinách kliešťov a ich možné využitie v riadení bunkových procesov za fyziologických a patofyziologických podmienok *(Bioactive molecules in tick saliva and their exploitation in the regulation of cell processes in physiological and physiological conditions)*

Zodpovedný riešiteľ:	Iveta Štibrániová
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	2/0089/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Vega: 9603 €

Dosiahnuté výsledky:
Identifikovali sme silný inhibičný efekt SGE kliešťov na TGFb1 indukovaný signaling závislý na SMAD4 pre všetky nami testované kliešte, menej výrazný inhibičný efekt, závislý od druhu kliešťa pre p38 závislý TGFb1 indukovaný signaling na 2 bunkových líniách izolovaných z krčka maternice. Detegovali sme potláčanie migrácie buniek indukovanej TGFb1 extraktami slinných žliaz(SGE) kliešťov v závislosti od druhu kliešťa, a doby cicania, avšak efekt sa nezdá byť závislý od prítomnosti/neprítomnosti TGFb1 viažuceho proteínu v SGE. Naďalej pokračujú experimenty sledujúce vplyv SGE na cytoskelet buniek, ich morfológiu, proliferáciu buniek, ako aj expresie génov zapojených v hojení rany.

Vedecké výstupy:

Holíková V, Štibrániová I. „Efect of salivary gland extracts from selected tick species on TGF regulatedintracellular signal pathways", IV. Labudove dni, 4-6.IX. 2015, Smolenice, abstract book p. 23, oral presentation

Štibrániová I, Holíková V, Bartíková P. „Efect of bioactiv molecule in tick saliva on grawth factors coordinated processes, during wound healing - on cell migration and on cell cytoskeleton", IV. Labudove dni, 4-6.IX. 2015, Smolenice, abstract book p. 71, poster.

Bartíková P, Smutná K, Štibrániová I. "Do salivary gland extracts from different tick species affect antiviral activity of humen interferon lambda-1?", IV. Labudove dni, 4-6.IX. 2015, Smolenice,

abstract book p. 48, poster

Bartíková P, Štibrániová I, Slovák M, Holíková V, Hajnická V, Patricia A. Nuttall: „Tick toxins" target vertebrate host wound healing", IST 2015 OXFORD, The 18th world congress of the International Society on Toxinology, 25-30 september, 2015, Oxford UK, abstract book p.144,

Bartíková P, Holíková V, Slovák M, Štibrániová I: „Ticks versus immune system: challenges for us", Modbiolin workshop on Ticks &Tick-transmitted diseases 2015, T&TTD 2015), 26-27.marec 2015,. Český Krumlov, ČR, abstract book p.

Holíková V, Štibrániová I. „Vplyv vybraných extraktov slinných žliaz kliešťov (SGE) na prenos signálov regulovaných s transforming growth factor beta-1 (TGF-?1)v rôznych typoch buniek, Študentská vedecká konferencia Prif UK, zborník recenzovaných príspevkov, p.232

22.) Cielená modifikácia potyvírusového proteínu pre analýzu interakcií s hostiteľskou rastlinou na molekulovej úrovni
(Directed modification of a potyviral protein for analysis of molecular interactions with the host plant)

Zodpovedný riešiteľ:	Zdeno Šubr
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0001/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6178 €

Dosiahnuté výsledky:
V minulosti sme cielenou mutagenézou dokázali, že patotyp PPV v niektorých hostiteľských druhoch je závislý na aminokyseline v pozícii 138 v géne P1. Zistili sme, že samotná prítomnosť tejto aminokyseliny nie je esenciálna pre infekčnosť vírusu. Životaschopné boli aj trojaminokyselinové deletanty v tejto oblasti genómu. Väčšia delécia v C-koncovej oblasti P1 (pozície 121-297) však nebola zlučiteľná s infekčnosťou PPV.
Interakcie proteínu P1 s hostiteľským proteómom sme analyzovali pomocou dvojhybridného systému. Zistili sme prevažne interakcie s chloroplastovými proteínmi rôznej funkcie. Pre účely nezávislej analýzy interakcií pull-down experimentami sme klonovali a exprimovali P1 v E. coli a následne purifikovali pomocou IMAC na kobaltovom nosiči.
V infekčnom klone PPV sme P1 fúzovali s GST kotvou, ktorá sa však počas infekcie rastlín z konštruktu vyštepovala. Nahradili sme ju 6xHis kotvou. Takýto konštrukt bol infekčný a v rastlinách stabilný, avšak na úrovni proteínu sa nám zatiaľ His-P1 dokázať nepodarilo, zrejme z dôvodu jeho krátkej životnosti in vivo.
Publikovali sme detailný rozbor zistených rozdielov v transkripcii rastlinných génov v súvislosti s infekciou PPV.

Vedecké výstupy:

Vozárová Z, Šubr Z. Attempts to express and purify the Plum pox virus P1 protein from E. coli in soluble form. XX. česká a slovenská konference o ochraně rostlin, 1.-3.9.2015, Praha, Česká republika, Sborník abstraktů, 2015, p. 40.

Vozárová Z, Žilová M, Šubr Z. Comparative transcriptome analysis of healthy and plum pox virus-infected plants. XX. česká a slovenská konference o ochraně rostlin, 1.-3.9.2015, Praha, Česká republika, Sborník abstraktů, 2015, p. 41.

Vozárová Z, Šubr Z. Analýza interakcií neštruktúrnych proteínov vírusu šarky slivky s proteómom

hostiteľskej rastliny. In: Galamboš M. et al. (eds.): Študentská vedecká konferencia Prif UK 2015, Zborník recenzovaných príspevkov, Univerzita Komenského, Bratislava, 2015, pp. 821-6. ISBN 978?80?223?3859?2.

Sihelská N, Šubr Z, Vozárová Z. Výskyt a variabilita vírusu šarky slivky na území Slovenska. In: Galamboš M. et al. (eds.): Študentská vedecká konferencia Prif UK 2015, Zborník recenzovaných príspevkov, Univerzita Komenského, Bratislava, 2015, pp. 688-692. ISBN 978?80?223?3859?2.
Vozárová Z, Žilová M, Šubr Z. Differentially expressed genes in healthy and plum pox virus-infected Nicotiana benthamiana plants. Acta Virol. 2015; 59: 389-97.

23.) Úloha hypoxiou-indukovanej karbonickej anhydrázy IX v invazivite nádorových buniek *(The role of hypoxia-induced carbonic anhydrase IX in invasion processes of tumor cells.)*

Zodpovedný riešiteľ:	Eliška Švastová
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0139/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9603 €

Dosiahnuté výsledky:
V prvom roku riešenia projektu sme dokázali invadopodiálnu lokalizáciu CA IX v nádorových bunkách prenikajúcich extracelulárnou matrix. Potvrdili sme, že proteín CA IX kolokalizuje s markerom invadopódií kortaktínom v 3D kolagénových ako aj matrigelových štruktúrach. Pomocou fluorescenčnej próby DQ-BSA a konfokálneho mikroskopu sme dokázali, že táto kolokalizácia je charakteristická pre proteolyticky aktívne invadopódia pričom CA IX pozitívne bunky vykazujú vyšší počet invadopódií ako bunky s utlmenou expresiou CA IX. Tieto výsledky poukazujú na aktívnu účasť proteínu CA IX v invazívnych procesoch nádorových buniek.

24.) Štúdium molekulárnych mechanizmov regulácie karbonickej anhydrázy IX a význam jej expresie v kolorektálnych nádoroch *(Study of molecular mechanisms of carbonic anhydrase IX regulation and significance of its expression in colorectal cancer.)*

Zodpovedný riešiteľ:	Martina Takáčová
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0152/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9849 €

Dosiahnuté výsledky:
V rámci klinickej časti projektu sme pokračovali v imunohistochemickej analýze expresie CA IX v tkanivových vzorkách získaných od pacientov s primárnym kolorektálnym nádorom resp. s metastázami. Okrem toho sme realizovali aj imunohistochemické značenie proteínov c-Met a Cox-2 a porovnávali ich expresný profil vzhľadom k expresii CA IX a v kontexte s klinickými a histopatologickými parametrami. Výsledky sme korelovali s analýzou solubilnej formy CA IX (Rapid ELISA), pričom sme dosiahli stredný stupeň korelácie. V rámci analýzy regulácie expresie CA IX sme pokračovali v analýze promótorovej aktivity génu CA9 v bunkovej línii RKO derivovanej z karcinómu kolorekta. Sledovali sme vplyv jednotlivých komponentov Wnt dráhy ako aj glukokortikoidov na aktivitu CA9 promótora. Okrem toho sme uskutočnili Proteome Profiler analýzu (Cell stress) na sledovanie jednotlivých signálnych drách po dlhodobej kultivácii sféroidov v

prítomnosti dvoch koncentrácií dexametazonu.

Vedecké výstupy:

Takáčová M, Pastoreková S. Tumour hypoxia - Molecular mechanisms and clinical relevance [Nádorová hypoxia - Molekulárne mechanizmy a klinický význam]. Klin Onkol. 2015;28(3):183-90.

Takacova M, Hlouskova G, Zatovicova M, Benej M, Sedlakova O, Kopacek J, Pastorek J, Lacik I, Pastorekova S. Encapsulation of anti-carbonic anhydrase IX antibody in hydrogel microspheres for tumor targeting. European Journal of Pharmaceutical Sciences - Publikácia v štádiu posudzovania

25.) Vplyv infekcie vírusu lymfocytovej choriomeningitídy na aktivitu signálnych dráh regulovaných transkripčným faktorom HIF-1 *(Impact of LCMV infection on the activity of HIF-regulated signal transduction pathways)*

Zodpovedný riešiteľ:	Jana Tomášková
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0053/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7285 €

Dosiahnuté výsledky:
Dosiahnuté výsledky:
Pripravili sme bunkové modely (A549 a HEK) perzistentne infikované rôznymi kmeňmi vírusu lymfocytovej choriomeningitídy (Arm53b, Clone-13, MX). Zistili sme, že perzistentná infekcia neovplyvňuje viabilitu buniek, avšak má vplyv na ich proliferáciu. Zatiaľ čo u bunkovej línie HEK pod vplyvom infekcie došlo k zvýšeniu proliferácie, u A549 buniek došlo k jej spomaleniu. Analýza hladín mRNA vybraných génov metódou qRT-PCR odhalila, že LCMV síce neovplyvňuje transkripciu HIF-1alfa a HIF-2alfa génov v infikovaných A549 bunkách, ale má vplyv na ich transkripčnú aktivitu. Už za normoxických podmienok sme detegovali zvýšenú expresiu génov VEGF a GLUT1 regulovaných HIF transkripčnými faktormi. Na druhej strane LCMV infekcia výrazne inhibovala transkripciu MCT4 génu, s výnimkou MX kmeňa, ktorého vplyv bol menej zreteľný. Z uvedeného vyplýva, že vírus selektívne ovplyvňuje aktivitu HIF proteínov, s cieľom prispôsobiť si prostredie pre produktívnu infekciu. Identifikácia mechanizmov, ktoré LCMV pri tom využíva je predmetom práve prebiehajúcich experimentov.
Navyše sme vyvinuli nový citlivý ELISA test na identifikáciu anti-LCMV IgG protilátok v ľudských sérach.

Vedecké výstupy:

Váňová B, Ovečková I, Danchenko M, Tomášková J. Identifikácia interakcií Z proteínu vírusu lymfocytovej choriomeningitídy s proteínmi hostiteľskej bunky. In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 795 - 800. ISBN 978-80-223-3859-2.

Lapošová K, Lukáčiková Ľ, Ovečková I, Pastoreková S, Tomášková J. Development and application of ELISA for detection of antibodies to lymphocytic choriomeningitis virus. In Tomáškovy dny 2015 Sborník: XXIV.Konference mladých mikrobiologú. - Brno: Masarykova univerzita Brno, 2015, p. 54. ISBN 978-80-210-7851-2.

Lukáčiková Ľ, Ovečková I, Betáková T, Lapošová K, Polčicová K, Pastoreková S, Pastorek J, Tomášková J. Role of interferon lambda in lymphocytic choriomeningitis virus infection. In Tomaškovy dny 2015 Sborník: XXIV.Konference mladých mikrobiologú. - Brno: Masarykova

univerzita Brno, 2015, p. 57. ISBN 978-80-210-7851-2.

Lapošová K, Lukáčiková Ľ, Ovečková I, Pastoreková S, Tomášková J. Newly developed ELISA detecting IgG antibodies to lymphocytic choriomeningitis virus. In „IV. Labudove dni“, 4.-6. 11. 2015 Abstract Book, p. 58, ISBN 978-80-972111-0-3

Lukáčiková Ľ, Ovečková I, Lapošová K, Polčicová K, Pastoreková S, Pastorek J, Tomášková J. Interferon lambda and his role in lymphocytic choriomeningitis virus infection. In „IV. Labudove dni“, 4.-6. 11. 2015 Abstract Book, p. 59, ISBN 978-80-972111-0-3

Polčicová K, Ovečková I, Tomášková J. Different LCMV strains differentially alter the gene expression profile in persistently infected cells. In „IV. Labudove dni“, 4.-6. 11. 2015 Abstract Book, p. 61, ISBN 978-80-972111-0-3

26.) Fuzogénna aktivita hemaglutinínu vírusu chrípky A ako faktor virulencie a patogenity .
(Fusion activity of influenza A haemagglutinin as a factor of virulence and pathogenicity.)

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	2/0146/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9405 €

Dosiahnuté výsledky:
Cieľom projektu je sledovať fuzogénnu aktivitu HA vírusu chrípky (IAV) ako faktora virulencie a patogenity. Rôzne hodnoty pH, pri ktorých dochádza ku konformačným zmenám HA-u a následne k fúzii membrán vírusu a endozómu, zohrávajú úlohu v medzidruhovom prenose vírusu chrípky a patogenéze ochorenia. Metódou reverznej genetiky sme pripravili 3 mutantné vírusy s cielenými mutáciami v géne pre HA v mieste interakcie monomérov v HA trimére. Vypracovali sme luciferázovú essej na kvantitatívne monitorovanie fuzogénnej aktivity IAV a u dvoch mutantov sme potvrdili zmenu pH optima fúzie. Sledovanie zmeny pH optima fúzie in vitro môže vypovedať o zmene replikácie vírusu in vivo a následne môže ovplyvniť jeho patogenetické vlastnosti, čo bude predmetom nášho záujmu v ďalšom roku riešenia projektu.

Vedecké výstupy:

Janulikova J, Stropkovska A, Bobisova Z, Kosik I, Mucha V, Kostolansky F, Vareckova E. Virus-neutralizing antibody response of mice to consecutive infection with human and avian influenza A viruses. In Acta Virologica : international journal, 2015, vol. 59, no. 2, p. 166-173. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Stropkovska A, Mikuskova T, Bobisova Z, Kosik I, Mucha Vojtech, Kostolansky F, Vareckova E. Immune response of mice to non-adapted avian influenza A virus. In Acta Virologica : international journal, 2015, vol. 59, no. 4, p. 350-359. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Skalickova S, Heger Z, Krejcova L, Pekarik V, Bastl K,Janda J, KOostolansky F, Vareckova E, Zitka O, Adam V, Kizek R. Perspective of use of antiviral peptides agaainst influeenza virus. In VIRUSES, 2015, vol. 7, no. 10, p. 5428-5442. (3.353 - IF2014). ISSN 1999-4915.

Kosik I, Praznovska M, Kosikova M, Bobisova Z, Holly J, Vareckova E, Kostolansky F, Russ G. The Ubiquitination of the Influenza A Virus PB1-F2 Protein Is Crucial for Its Biological Function. In PLoS ONE, 2015, vol. 10, no. 4, p. e0118477, eCollection 2015. (3.234 - IF2014). ISSN

1932-6203.

Ancinova L, Wagnerova M, Janulikova J, Chalupkova A, Hrabovska Z, Kostolansky F, Vareckova E, Mistrikova J. Simultaneous infection with Gammaherpes and Influeenza viruses enhances the host immune defense. In Acta Virologica : international journal, 2015, vol. 59, no. 4, p. 369-379. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Kotlarova L, Holly J, Vozarova M, Vareckova E. Detekcia zmeny pH optima fúzie membrán HA pomocou luciferázovej eseje. In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 366 - 371. ISBN 978-80-223-3859-2. Dostupné na internete: <http://2015.svkprifuk.info/zbornik2015.pdf>.

Ancinova L, Wagnerova M, Chalupkova A, Hrabovska Z, Vareckova E, Mistrikova J. Simultánna infekcia herpetickým vírusom a vírusom chrípky znižuje reaktiváciu herpetickej latencie na modeli MHV-68 infikovaných Balb/c myší. In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 26 - 31. ISBN 978-80-223-3859-2. Dostupné na internete: <http://2015.svkprifuk.info/zbornik2015.pdf>.

27.) Regulácia uvoľňovania a biologická úloha solubilnej formy karbonickej anhydrázy IX v medzibunkových interakciách nádorových buniek *(Regulation of carbonic anhydrase IX release and biological role of shed ectodomain in tumor cell-cell interactions)*

Zodpovedný riešiteľ:	Miriam Zaťovičová
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/0134/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9603 €

Dosiahnuté výsledky:
Získali sme poznatky o miere proteolýzy CA IX v podmienkach blízkych nádorovému mikroprostrediu, ako je nízka hladina kyslíka (0,5%) a kyslé pH-6,6. Na stanovenie koncentrácie ECD CA IX sme vyvinuli a optimalizovali ELISA test s využitím vzájomne nekompetujúcich monoklonových protilátok vyrobených v našom laboratóriu. V podmienkach prísnej hypoxie a acidózy sme detegovali signifikantne zníženú hladinu solubilnej formy ECD CA IX, čo bolo v súlade so zníženou expresiou proteolytického enzýmu ADAM17. Pozorovaný pokles interakcie CA IX a ADAM17 v acidóze pomocou PLA analýzy (proximity ligation assay) potvrdil predchádzajúce výsledky. Extrémne prostredie malo taktiež vplyv na expresiu iných faktorov nádorového mikroprostredia, ako je GLUT1, MCT4 a ADAM10 s možnou účasťou na regulácii sheddingu CA IX. Zaujímavé výsledky sme dosiahli v prietokovej cytometrii, kde bola v kyslom prostredí detegovaná zvýšená viabilita buniek so zachovanou vyššiu hladinu membránovej CA IX, čo nás viedlo k potvrdeniu hypotézy, že bunkovo-viazaná CA IX má dôležitú funkciu v prežívaní nádorových buniek v extrémnych podmienkach.

Vedecké výstupy:

Pastoreková S, Vidličková I, Zaťovičová M. Soluble ectodomain of the hypoxia-induced carbonic anhydrase IX: more than a circulating cancer biomarker. In Hypoxia: From Basic Mechanisms to Therapeutics. Dublin, Ireland: Royal Dublin Society, 2015, p. 95.

Zatovicova M, Vidlickova I, Csaderova L, Mego M, Baratova M, Muller P, Vojtesek B, Pastorek P, Pastorekova S. Circulating CA IX – Not only a biomarker but also a signaling molecule. 2nd meeting of the International Society of Cancer Metabolism, Venice, 16-19 September 2015, p. 115.

Zaťovičová M, Vidličková I, Csáderová L, Mego M, Baratova M, Muller P, Vojtesek B, Pastorek J, Pastoreková S. Circulating CA IX as a biomarker and a signaling molecule. In 10th International Carbonic Anhydrase Conference. Maastricht, Netherland: Maastro Clinic, 2015, p. 29.

28.) Faktory ovplyvňujúce produkciu bunkovo-neviazaných partikúl vírusu Marekovej choroby in vivo u kurčiat a in vitro v bunkových kultúrach *(Factors effecting production of cell-free Marek's disease virus particles in vivo in chicken and in vitro in cell culture)*

Zodpovedný riešiteľ:	Vladimír Zelník
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0005/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3085 €

Dosiahnuté výsledky:
Pre prípravu experimentov in vivo boli rekombinantné vírusy MDV s fluorescenčne značenými proteínmi získané z BAC klonov titrované na bunkách DF-1. Titrované boli vírusy: BAC20-pp38-eCFP, pRB1B-UL47-eGFP, pRB1B-UL47-mRFP.
Titer vírusov bol porovnaný s technikou určenia absolútneho počtu genómu MDV v biologických vzorkách metódou kvantitatívnej PCR vyvinutou v našom laboratóriu.

Programy: APVV

29.) Charakterizácia nového motívu v M1 proteíne chrípkového vírusu a využitie NS1 delečných mutantov v nádorovej terapii. *(Characterization of novel motif in M1 protein of influenza A virus and using NS1 deletion mutants in tumor therapy)*

Zodpovedný riešiteľ:	Tatiana Betáková
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0676-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 47600 €

Dosiahnuté výsledky:
Zistili sme, že delečný NS1 80 vírus sa v pľúcach myší množil 625-krát horšie ako kontrolný vírus. Navrhli sme špecifické primery a zaviedli metodiku na kvantifikáciu množstva mRNA cytokínov IFN-alfa, IFN-beta, IFN-omega, IFN-gama, IFN-lambda, IL-1beta, receptorov RIG-I, MDA5 a interferón regulačných faktorov IRF3 a IRF7 v in vivo podmienkach. Porovnali sme expresiu 40 cytokínov v časovom intervale 6, 24, 48 a 96 hodín po infekcii wt a del80 vírusom.

Vedecké výstupy:

Lukácikova L, Oveckova I, Betakova T, Laposova K, Polcicova K, Pastorekova S, Pastorek J, Tomaskova J. Antiviral Effect of Interferon Lambda Against Lymphocytic Choriomeningitis Virus. Journal of Interferon & Cytokine Research, 2015, 35(7): 540 - 553.

Mrazova V, Betakova T, Kudelova M, Supolikova M, Lachova V, Lapunikova B, Golais F. Murine Gammaherpesvirus (MHV-68) Transforms Cultured Cells in vitro. Intervirology, 2015, 58: 69-72.

Svancarova P, Svetlikova D, Betakova T, Induction of interferon lambda in influenza a virus infected cells treated with shRNAs against M1 transcript. Acta Virol, 2015, 59(2):148-155.

Skorvanova L, Svancarova P, Svetlikova D, Betakova T. Protective efficacy of IFN-omega and IFN-lamdas against influenza viruses in induced A549 cells. Acta Virologica, 2015, 59(4):413-417.

Lachova V, Svetlikova D, Skorvanova L, Svancarova P, Sedlakova O, Betakova T. Small hairpin RNAs targeting the NS gene of the influenza A virus do not elevate transcription of IFN-alfa, IFN-beta, IFN-gama, RIG-1 in mice. Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 396 - 401. ISBN 978-80-223-3859-2.

Skorvanova L, Svetlikova D, Lachova V, Svancarova P, Betakova T. Indukcia expresie interferónov a RNA helikázy RIG-I v A549 bunkách infikovaných vírusom chrípky typu A. Lucia Škorvanová, Darina Svetlíková, Veronika Lachová, Petra Švančarová, Tatiana Betáková. Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 704 - 709. ISBN 978-80-223-3859-2.

Skorvanova L, Lachova V, Svancarova P, Svetlikova D, Betakova T. Antivírusová aktivita interferónov lambda voči vírusu typu A. Tomáškovy dny 2014 : XXIII. konference mladých mikrobiologú. - Brno : Masarykova univerzita, 2014, p. 79. ISBN 978-80-210-6805-6.

Lachova V, Skorvanova L, Svetlikova D, Betakova T. Comparison of type I and type III IFNs in A549 cells infected with avian influenza virus. TOMÁŠKOVY DNY 2015 Sborník : XXIV.Konference mladých mikrobiologú. - Brno : Masarykova univerzita Brno, 2015, p. 53. ISBN 978-80-210-7851-2.

Svancarova P, Lachova V, Svetlikova D, Betakova T. Knockdown of NS1 protein by small interfering RNA suppressed NS1 but did not change levels of IFN mRNAs in the cells and mice infected with influenza A virus. In OMICS International Organises. 5th World Congress on Virology - “Anti-Viral Immunity and Countermeasures to Control Disease Pathogenesis” : Book of abstracts. - Atlanta, USA, 2015, p. PVC 104, Journal of Antivirals&Antiretrovirals, 7(4):115, 2015, ISSN: 1948-5964.

30.) Molekulárne mechanizmy spolupôsobenia stresových hormónov a hypoxie v nádorových bunkách: vplyv na expresiu a funkciu nádorového proteínu CA IX (AR-CAIX)
(Molecular mechanisms of the crosstalk between stress hormones and hypoxia in tumor cells: effect on expression and function of cancer-related protein CA IX)

Zodpovedný riešiteľ:	Lucia Csáderová
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0893-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 62577 €

Dosiahnuté výsledky:
V záverečnom roku riešenia APVV sme ďalej rozpracovali tematiku zvyšovania hladiny cAMP v hypoxii. Dokázali sme pre viaceré karcinómové línie, že upregulácia adenylyl cykláz 6 a 7 je sprostredkovaná HIF-1 transkripčným faktorom cez HRE miesta nachádzajúce sa v oblasti ich promótorov. Ukázali sme funkčný dopad zvýšenia hladiny AC VI a VII v hypoxii na bunkovú migráciu a pH reguláciu.

Ďalšou oblasťou nášho výskumu boli súvislosti a vzájomné prepojenie medzi stresovými hormónmi glukokortikoidmi a signálnymi dráhami spúšťanými hypoxiou. Venovali sme sa analýze možného zapojenia dexametazónu, syntetického glukokortikoidu, ktorý sa často používa v klinickej praxi do regulácie hladiny karbonickej anhydrázy IX. Potvrdili sme, že DEX znižuje hladinu podjednotky HIF-1? a ovplyvňuje aj jej DNA-väzobnú aktivitu. Ukázali sme, že dexametazón znížil expresiu CA IX v kolorektálnom 2D modeli a aj vo fyziologickejšom 3D modeli prsníkového karcinómu. Dexametazón ovplyvňuje hladinu CA IX rôznymi mechanizmami: priamo cez svoj vplyv na HIF-1?, ktorý je hlavný transkripčný faktor spúšťajúci prepis CA9 v hypoxii, ale tiež cez aktivované glukokortikoidové receptory viazúce sa na NFkB v represívnom móde transkripčnej regulácie. Prepojenie medzi dexametazónom a hladinou CA IX, ktorej výskyt v nádoroch je často spájaný so zlou prognózou, prináša nové informácie o klinicky relevantnej situácii, ktorá môže nastať počas liečby onkologických pacientov dexametazónom.

Vedecké výstupy:

Šimko V, Csaderova L, Labudova M, Pastorek J. Hypoxia - mediated regulation of cAMP : a molecule involved in the activation of the tumor associated carbonic anhydrase IX. In Hypoxia: From Basic Mechanisms to Therapeutics. - Dublin , Ireland : Royal Dublin Society, 2015, p. 55. Dostupné na internete: <www.meetinireland.com>. Typ: AFK

31.) Efektívna diagnostika vírusov ohrozujúcich produkciu rajčiaka jedlého na Slovensku
(Effective diagnostics of viruses threatening the production of tomato in Slovakia)

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0055
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národné poľnohospodárske a potravinárske centrum, VURV Piešťany
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 13625 €

Dosiahnuté výsledky:
Pomocou imunologickej ELISA a molekulárnej RT-PCR detekcie sme sledovali výskyt vírusov na rajčiaku jedlom vo viacerých výsadbách na západnom Slovensku. Dizajnovali sme nové, originálne primery pre detekciu vírusu mozaiky rajčiaka (Tomato mosaic virus, ToMV). S cieľom sledovať štruktúru vírusovej populácie ToMV sme rovnakým izolátom infikovali citlivé a rezistetné odrody rajčiaka. Na experimentálneho hostiteľa Niciotiana benthamiana sme mechanicky preniesli 3 rôzne vírusy s neznámou etiológiou, ktoré budeme následne identifikovať pomocou sekvenácie novej generácie (NGS).

32.) Vývoj inovatívnych postupov na charakterizáciu a kontrolu hospodársky dôležitých a novo sa objavujúcich vírusových patogénov červených kôstkovín na Slovensku
(Development of innovative approaches to characterise and control the economically important and emerging virus pathogens of cherry crops in Slovakia)

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0174-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 43273 €

Dosiahnuté výsledky:
Na viacerých lokalitách Slovenska sme pomocou RT-PCR sledovali výskyt vírusov na čerešniach v rôznych agroekologických kontextoch so zameraním na novo sa objavujúce, tzv. emerging patogény. Pomocou analýzy parciálnych sekvencií sme charakterizovali diverzitu izolátov vírusu maloplodosti čerešne-1 (LChV-1), pričom sme zistili, že tvoria samostatný klaster odlišný od doteraz známych LChV-1 izolátov. Na jednej lokalite sme zistili prítomnosť vírusu maloplodosti čerešne-2 (LChV-2)a začali s kompletnou sekvenáciou jeho genómu. Analýzou variability RNA3 vírusu zakrpatenosti slivky (PDV) sme dokázali jeho vysokú genetickú rozmanitosť a potenciálnu rolu rekombinácie v jeho evolučnej histórii. Optimalizovali sme techniku in vitro mikroštepenia Prunus v kombináciách čerešňa/čerešňa a čerešňa/slivka. Tento systém bude v ďalších fázach projektu využitý na sledovanie odrodovej citlivosti čerešní voči vírusovej infekcii. Pri charakterizácii genofondu čerešní s cieľom ich zachovania ex situ sa zhromaždili dostupné údaje o výsadbách a výskyte genofondov čerešní na Slovensku.

Vedecké výstupy:
Glasa M, Benediková D, Predajňa L. First report of Little cherry virus-1 in Slovakia. J Plant Pathol. 2015 Oct;97(3):542

33.) Výskum adaptácie rastlín v Černobyľskej oblasti a ich možné využitie *(Understanding of Plant Adaptation in the Radioactive Chernobyl Area)*

Zodpovedný riešiteľ:	Martin Hajduch
Zodpovedný riešiteľ v organizácii SAV:	Ľudovít Škultéty
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0740-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 4654 €

Dosiahnuté výsledky:
Cieľom projektu v poslednom roku trvania bolo charakterizovať proteínové posttranslačné modifikácie v semenách sóje pestovaných v černobyľskej oblasti. Za týmto účelom boli proteíny izolované z nezrelých semien zozbieraných päť týždňov po odkvitnutí. Použili sme dvojrozmernú elektroforézu v kombinácii so špecifickým farbením ProQ Diamond, ktoré odhalilo 48 fosforylovaných proteínov. Väčšina z týchto proteínov bolo zásobných. Zistili sme, ze u šiestich z nich dochádza k významnej zmene koncentrácie v závislosti, či rastlina rástla v kontaminovanom alebo v nekontaminovanom prostredí. Bolo tiež zistené, že zároveň došlo aj k zmenám v glykozilácii určitých proteínov. Naše údaje teda naznačujú, že radio-kontaminované prostredie môže zmeniť fosforyláciu, či glykozyláciu proteínu, čo pravdepodobne súvisí s jej adaptáciou.

34.) Funkčná analýza novoidentifikovaných DNA variantov v génoch zodpovednýcchza cystickú fibrózu a fenylketonúriu. *(Functional analysis of newly identified DNA variants in genes responsible for cystic fibrosis and fenylketonuria.)*

Zodpovedný riešiteľ:	Ľudevít Kádaši
Trvanie projektu:	1.10.2013 / 31.12.2016
Evidenčné číslo projektu:	APVV-0240-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 23360 €

Dosiahnuté výsledky:
V roku 2015 sa urobila komplexná mutačná analýza na detekciu kauzatívnych mutácií u ďalších fenylketonurických pacientov. Pokračovali sme v optimalizácii jednotlivých krokov funkčných analýz novo identifikovaných DNA variantov v PAH géne. Optimalizácia spočívala predovšetkým v čo najpresnejšom stanovovaní katalytickej aktivity jednotlivých mutovaných PAH enzýmov získaných v prokaryotickom expresnom systéme a v kvantitatívnom stanovovaní množstva mutovaných PAH produkovaných v eukaryotickom expresnom systéme v prítomnosti prekurzora kofaktoru.
Pokračovalo sa aj v sekvenačnej analýze nových pacientov s cystickou fibrózou s optimalizovaným postupom, využitím metód fragmentovej analýzy, dHPLC, priameho sekvenovania a analýza bola rozšírená o detekciu veľkých in/del prestavieb pomocou MLPA. Boli identifikované 2 nové veľké delécie exónov 2 a 22. Ďalej sa pokračovalo v príprave CFTR konštruktov využitím nových klonovacích systémov, ktoré sú vyvinuté na zabraneniu nechcených prestavieb v klonovaných génoch, ku ktorým často pri klonovaní CFTR dochádza. Začali sme testovať postup priamej mutagenézy v eukaryotických bunkách bez využitia shuttle vektora.

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

Zodpovedný riešiteľ:	Jaroslav Katrlík
Zodpovedný riešiteľ v organizácii SAV:	Martina Takáčová
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0753
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2875 €

Dosiahnuté výsledky:
Za účelom glykoprofilácie sme pripravili lyzáty z 5 nádorových bunkových línií - Hela, ACHN, HT1080, C33neo a C33 CAIX. Na analýzu bolo použitých 6 rôznych lektínov, ktoré boli naspotované na mikročipoch. Samotnej analýze predchadzalo optimalizovanie experimentálnych podmienok (príprava bunkových lyzátov, meranie koncentrácie proteínov, riedenie vzoriek, vyhodnotenie). Zistili sme, že rôzne bunkové kultúry vykazujú rôznu senzitivitu vzhľadom k naspotovaným lektínom. Vo všeobecnosti však konštatujeme, že profil glykozylácie je znížený v podmienkach hypoxickej inkubácie analyzovaných bunkových kultúr.
Výsledky zatiaľ neboli publikované.

36.) IP3 receptory, ich modulácia a funkcia v nádorových bunkách. *(IP3 receptors, their modulation and function in cancer cells.)*

Zodpovedný riešiteľ:	Oľga Križanová
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0045-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 28900 €

Dosiahnuté výsledky:
Tento projekt bol zameraný na úlohu IP3 receptorov v nádorových bunkách. V rámci riešenia projektu sme ukázali, če niektoré testované látky sú schopné zvýšiť génovú expresiu a teda aj množstvo IP3 receptorov typu 1 a 2 v nádorových bunkových líniach a vyvolať apoptózu cez reguláciu vápnikových tokov.V procese indukcie apoptózy hrá dôležitú úlohu ER stres. Okrem IP3 receptorov sa na vzniku ER stresu môžu podieľať aj iné transportné systémy lokalizované na ER, napr. sarko/endoplazmatická ATPáza, alebo ryanodínové receptory.

37.) Myší herpetický vírus, producent látok s imunomodulačnými a antiproliferatívnymi vlastnosťami *(Murine gammaherpesvirus a producent of substances exhibiting immunomodulatory and antiproliferative properties)*

Zodpovedný riešiteľ:	Marcela Kúdelová
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0621-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 32303 €

Dosiahnuté výsledky:
V médiách bunkových línií 68/HDF, 68/NIH3T3 a S11E transformovaných s MHV-68 in vitro a in vivo sme zistili prítomnosť rastového faktora vírusového pôvodu (MHGF-68), pripomínajúceho rastové faktory niektorých herpetických vírusov. MHGF-68 je schopný v normálnych bunkách indukovať transformovaný fenotyp a naopak, potláčať tento fenotyp v bunkách nádorových. Potvrdili sme, že nie je žiadny rozdiel medzi troma kmeňmi myších gamaherpesvírusov - MHV-72, MHV-4556 a MHV-68 v epigenetickej regulácii ich promótora RTA počas latencie a reaktivácie in vivo a ex vivo. Počiatočné štúdie bunkovej línie S11E transformovanej s MHV-68 ukázali, že hypoxia ovplyvňuje expresiu vírusových génov dôležitých pre udržanie latencie, a že indukuje reaktiváciu vírusu z latencie. Potvrdili sme upreguláciu expresie IFNs-III, IFNLR a ISG15 v hlavných miestach latencie u myší infikovaných s MHV-68, čo naznačuje možnú úlohu signalizačnej siete IFN-III v onkogenéze vyvolanej infekciou s gammaherpesvírusmi.

Vedecké výstupy:

Mrázová V, Betáková T, Kúdelová M, Šupolíková M, Lachová V, Lapuníková B, Golais G (2015). Murine gammaherpesvirus (MHV-68) transforms cultured cells in vitro. Intervirology, 58 (2), 69-72

Šupolíková M, Vojs-Staňová A, Kúdelová M, Marák J, Zelník V, Golais F (2015) Cells transformed by MHV-68 release compounds with transforming and transformed phenotype suppressing activity resembling growth factors Acta Virol 59(4),418-422

Lapuníková B. , Lopušná K., Benkóczka T., Golais F., Kúdelová M., Režuchová I. (2015) Epigenetic modification of Rta (ORF50) promoter is not responsible for distinct reactivation patterns of murine gammaherpesviruses Acta Virol 59 (4),405-412

Vrbová M, Belvončíková P, Zelník V, Šupolíková M, Kúdelová M (2015) Some characteristics of S11 tumor cell line cultured in hypoxia ŠVK PriF UK, Bratislava,22.4.2015,ISBN 978-80-223-3859-2,pp 833-837

Lapuníková B, Lopušná K, Benkóczka T, Golais F, Kúdelová M, Režuchová (2015) The epigenetic regulation of murine gammaherpesvirus Rta promoter during latency and reactivation ŠVK PriF UK Bratislava, pp 515-520

Belvončíková P, Vrbová M, Zelník V, Matúšková, R, Kúdelová M (2015) Expression of MHV-68

genes in tumor S11 cell line under hypoxic conditions. XI. Diagnostics, Predictive and Experimental ONCOLOGY Days, December 02-03 2015 , Olomouc, Czech Rep., ISBN 978-80-260-8368-9, P41

Lopušná K, Benkóczka T, Kúdelová M, Lapuníková B, Kabát P, Režuchová I (2015) Type III interferons signaling network: a new approach in understanding of cancer signaling. XXIV. Tomasek days, 4.-5. 6. 2015, Brno, Czech Republic, ISBN 978-80-210-7851-2, p38

Lapuníková B, Lopušná K, Benkóczka T, Kúdelová M, Golais, F, Režuchová I (2015) Characterization of latency and in vivo induced reactivation of murine gammaherpesviruses, XXIV. Tomasek days, p55

Benkóczka T, Lopušná K, Lapuníková B,, Kúdelová M, Režuchová I (2015) Expression of type III interferons during infection with murine gammaherpesviruses in vitro. XXIV. Tomasek days, p43

Belvončíková P, Vrbová M, Zelník V, Kúdelová M (2015) Hypoxia affects the expression of some MHV-68 genes in tumor S11 cell line. XXIV. Tomasek days,p42

38.) Modulácia imunitnej odpovede cytomegalovírusom a jej imunoterapeuticky? potenciál.
(Immune modulation by cytomegalovirus and its immunotherapeutic potential.)

Zodpovedný riešiteľ:	Ivana Nemčovičová
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0839
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	4 - Rakúsko: 1, Česko: 1, Veľká Británia: 1, USA: 1
Čerpané financie:	APVV: 22661 €

Dosiahnuté výsledky:
1. Sekvencie TRAIL-R2 s ostatnými TRAIL receptormi boli porovnané a analyzované. Na základe toho boli predikované UL141 väzobné miesta. Sekvencie Ig domén CD155, UL141, TIGIT a UL16 boli porovnané a analyzované, pričom sme objavili evolučne konzervované znaky.
2. Návrhli sme a pripravili DNA expresné konštrukty vybraných génov kódovaných virulentnými kmeňmi HCMV ako aj ich vybrané ľudské bunkové receptory. Preferencia bola kladená na funkčné ektodomény a extracelulárne časti týchto molekúl.
3. Vybrali sme expresný systém a uskutočnili samotnú expresiu rekombinantných proteínov z vhodných eukaryotických aj prokaryotických buniek. Tento výber sa konal s ohľadom na posttranslačnú modifikáciu v jednotlivých systémoch vhodnú pre vírusové glykoproteíny či endogénne receptory.
4. Purifikácia exprimovaných molekúl bola uskutočnená pomocou rôznych chromatograficky?ch metód, pričom optimalizácia týchto stratégií bola s cieľom získať čo najkvalitnejšie proteíny k ďalším biochemickým a biofyzikálnym aplikáciám.

Vedecké výstupy:

Nemcovicova I, Nemcovic M, Kudelova M, Benedict CA, Zajonc DM. New insight into strategies employed by HCMV in immunomodulation. J Antivir Antiretrovir. 2015 Dec;7:4.

39.) Grafénová nanoplatforma na detekciu rakoviny *(Graphene - based nanoplatform for detection of cancer)*

Zodpovedný riešiteľ:	Mária Omastová
Zodpovedný riešiteľ v organizácii SAV:	Silvia Pastoreková
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV - 14 - 0120
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 5658 €

Dosiahnuté výsledky:
V prvom období riešenia projektu sme vypurifikovali afinitnou chromatografiou monoklonovú protilátku M75 špecifickú voči CA IX určenú na konjugáciu s GO. Otestovali sme najvhodnejšiu metódu na detekciu cytotoxicyty testovaných látok na bukových líniách nádorových aj nenádorových buniek in vitro. V pilotnom experimente sme zistili, že čistý, nekonjugovaný GO nie je toxický pre testované bunkové línie.

40.) Štúdium molekulárnych mechanizmov biologických účinkov H2S *(Study of molecular mechanisms of H2S biological effects)*

Zodpovedný riešiteľ:	Karol Ondriaš
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV 0074-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 32440 €

Dosiahnuté výsledky:
Zistili sme, že produkt interakcie H2S a NO, SSNO– zoslabuje účinnosť H2S znížiť tlak krvi potkana. Látka SSNO– je účinnejšia a rýchlejšia kontrahovať izolovanú aortu potkana ako NO-donor S-nitrozoglutatión.

41.) Karbonická anhydráza IX ako funkčný komponent nádorovej progresie: úloha v epitelovo-mezenchýmovej tranzícii a v prenose medzibunkových signálov *(Carbonic anhydrase IX as a functional component of cancer progression: the role in epithelial-mesenchymal transition and intercellular signaling)*

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0658-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 38965 €

Dosiahnuté výsledky:
V roku 2015 sme pokračovali v štúdiu úlohy proteínu CA IX a jeho extracelulárnej formy v nádorovej progresii. Pomocou delécie katalytickej domény a selektívneho inhibítora CA IX sme ukázali, že na reguláciu glykolytického metabolizmu hypoxických buniek je potrebná enzymatická aktivita CA IX. Rukopis je v štádiu finalizácie.

Štúdium vplyvu cytotoxických látok na expresiu CA IX nás priviedlo k poznaniu, že indukcia bunkovej smrti je sprevádzaná uvoľňovaním extracelulárnej časti (ECD) proteínu CA IX z povrchu buniek do média. Bunky so zníženou expresiou membránového proteínu CA IX rýchlejšie podliehajú bunkovej smrti v porovnaní s bunkami so zachovanou povrchovou expresiou CA IX, ako bolo dokázané pomocou cytometrických analýz. Z toho vyplýva, že CA IX podporuje prežívanie nádorových buniek. Rukopis je v druhom kole recenzie.

Okrem toho sme ukázali, že inhibícia odštiepovania ektodomény CA IX ovplyvňuje invazívnosť nádorových buniek a tiež spektrum rastových faktorov s cytokínov, ktoré bunky produkujú v podmienkach normoxie aj hypoxie. Tieto výsledky naznačujú, že ektodoména CA IX funguje ako signalizačná molekula, ktorá môže mať parakrinné efekty. Rukopis sa pripravuje.

Vedecké výstupy:

Zaťovičová M, Vidličková I, Csáderová L, Mego M, Barátová M, Müller P, Vojťešek B, Pastorek J, Pastoreková S. Circulating CA IX as a biomarker and a signaling molecule. In 10th International Carbonic Anhydrase Conference - Book of abtracts. - Maastricht, Netherland : Maastro Clinic, 2015, p. 29.

Pastoreková S, Vidličková I, Zaťovičová M. Soluble ectodomain of the hypoxia-induced carbonic anhydrase IX: more than a circulating cancer biomarker. In Hypoxia: From Basic Mechanisms to Therapeutics. - Dublin, Ireland : Royal Dublin Society, 2015, p. 95.

Benej M, Švastová E, Repič M, Vulič R, Zabrano N, Scaloni A, Kopáček J, Denko NC, Pastoreková S. Knockdown of CA IX reduces the glycolytic capacity of cancer cells in hypoxia. 2nd ISCaM meeting - Metabolism and microenvironmnet in cancer plasticity, 16-19. 09. 2015, Venice, Italy, p. 85

Zatovicova M, Vidlickova I, Csaderova L, Mego M, Barátova M, Müller P, Vojťešek B, Pastorek J, Pastorekova S. Circulating CA IX – not only a biomarker but also a signaling molecule. 2nd meeting of the International Society of Cancer Metabolism, 16-19. 09. 2015, Venice, Italy, p. 115.

42.) Identifikácia biomarkerov na diagnostiku rickettsií, coxiella burnetii a im príbuzných organizmov imunoproteomickými a molekulárne biologickými metódami. *(Research of biomarkers for diagnosis of rickettsiae, coxiella burnetii and related organisms by state-of-art immunoproteomic and molecular biologic methods.)*

Zodpovedný riešiteľ:	Zuzana Sekeyová
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0280-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 63081 €

Dosiahnuté výsledky:
Riešitelia tohto projektu sa podieľali na odhalení proteómu Coxiella burnetii po infekcii Tetracyclínom, na detekcii immunoreaktívnych proteínov Coxiella burnetii použijúc imobilizované polyklonálne IGGS protilátky, ako aj na proteomickom, lipidickom a glykomickom porovnávaní

dvoch fáz Coxiella burnetii. Vo všetkých úrovniach výskumu sa im podarilo odhaliť také biomarkery, ktoré sú detektormi virulencie.

Členovia riešiteľského tímu sa venovali aj odhaleniu zmien, ktoré nastávajú po infekcii cerebrokortikálnych neurónov rôznymi rickettsiami. Autori tejto práce dokázali neuropatologické zmeny buniek na rôznych úrovniach, nie len morfologické ale aj biochemické.

Pri ekologických štúdiách riešitelia projektu dokázali, že vtáky môžu byť prirodzene infikované rickettsiami, ďalej poukázali na prítomnosť rickettsií v krvi psov a tým ozrejmili možný prenos rickettsií aj touto cestou a venovali sa cirkulácii rickettsií v centrálnej a južnej časti Slovenska, najmä v lokalite Malých Karpát. Potvrdili mnohé pozitívne prípady tak rickettsiálnej infekcie ako i koxielózy a podarilo sa im odhaliť úlohu ktorú hrajú ľudia v ekológii rickettsií.

Viacerí riešiteľia projektu sa úspešne venovali otázkam antibiotikovej rezistencie. Pri tejto práci odhalili vplyv zeonínu a carbenicillinu na rickettsiálnu nákazu. Podarilo sa aj dokázať expresiu takých génov Rickettsia acari ktoré sú priamo zapojené do procesu biosyntézy peptidoglykanov.

Vedecké výstupy:

Berthová L, Slobodník V, Slobodník R, Olekšák M, Sekeyová Z, Svitálková Z, Kazimírová M, Špitalská E.: The natural infection of birds and ticks feeding on birds with Rickettsia spp. and Coxiella burnetii in Slovakia. Exp Appl Acarol. 2015 Oct 17. [Epub ahead of print]

Bohácsová M, Filipčík P, Opattová A, Valáriková J, Quevedo Diaz M, Škultéty L, Novák M, Sekeyová Z.: Survival of rat cerebrocortical neurons after rickettsial infection. Microbes Infect. 2015 Nov-Dec;17(11-12):845-9.

Škultéty L, Flores-Ramirez G, Sekeyová Z, Danchenko M.: Virulence Associated Biomarkers of Coxiella burnetii by Mass Spectrometry. 29th ISMAS International Symposium on Mass Spectrometry, Febr. 2.-6, 2015, Vivanta by Taj Hari Mahal, Jodhpur Rajasthan, India, Eds. S.K. Aggarwal, Pranaw Kumar et al., ISBN: 978-81-904442-7-9., pp. 39-41.

Štefanidesová K, Špitalská E.: Repellent potential of eleven essential oils against Dermacentor reticulatus ticks. „IV. Labudove dni“ Abstract Book, Smolenice, Slovak Republik, 4.-6. November 2015, ISBN 978-80-972111-0-3, pp. 70.

Lieskovská N, Berthová L, Sekeyová Z. Dôkaz rickettsií v krvi a sérach psov Slovenska. In Študentská vedecká konferencia PriF UK 2015 : zborník recenzovaných príspevkov. - Bratislava : Univerzita Komenského v Bratislave, 2015, s. 436 - 441. ISBN 978-80-223-3859-2. Dostupné na internete: <http://2015.svkprifuk.info/zbornik2015.pdf>.

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Valáriková J., Sekeyová Z., Bohácsová M., Quevedo-Diaz M.:Expression of Rickettsia acari genes involved in the biosynthesis of peptidoglycan. ESCCAR International congress on Rickettsia and other intracellular bacteria. Lausanne, Swiss, June 13-16, 2015. Cell biology/P-2. Usporiadateľ: ESCCAR

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Flores - Ramírez G, Plicová L, Danchenko M, Mertens K, Škultéty Ľ. Detection of immunoreactive proteins of Coxiella burnetii using immobilized polyclonal IGGS antibodies. In ESCCAR- International congress on Rickettsia and other intracellular bacteria : Abstract book. - Lausanne, Switzerland : University Hospital - CHUV, 13-16. 2015, omics Poster-72. P. 132.

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Štefanidesová K, Sallay B, Špoitalská E.: The effect of seven essential oils on climbing behaviour of Dermacentor reticulatus. Book of Abstracts14th International Conference on Lyme Borreliosis and other Tick-Borne Diseases, September 27.-30, 2015 Vienna, Austria, Poster 181.

Bohácsová M, Mediannikov O, Kazimírová M, Raoult D, Sekeyová Z: Arsenophonus nasoniae is detected in ticks only because of the presence of parasitic wasps. "IV. LABUDOVE DNI" Abstract Book, Smolenice, Slovak Republic 4. - 6. November 2015 Usporiadateľ: VÚ SAV, Zoologický ústav, SAV., ISBN 978-80-972111-0-3, Poster No. 63.

43.) Identifikácia relevantných proteínov a charakterizácia proteín-proteínových interakcií biomarkerov regresie malignych ochorení *(Identification of relevant proteins and characterization of protein-protein interactions of biomarkers of malignant diseases regression)*

Zodpovedný riešiteľ:	Ľudovít Škultéty
Trvanie projektu:	1.1.2015 / 31.12.2015
Evidenčné číslo projektu:	SK-CZ-2013-0215
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2300 €

Dosiahnuté výsledky:
Riešenie projektu bolo výrazne poznačené nefinancovaním v prvom roku trvania zo slovenskej strany. Až vo februári 2015 došlo k úprave projektu a podpisu zmluvy. Keďže však u tohto typu projektu je veľmi dôležitá reciprocita, nemohli sme v prvom roku trvania projektu využiť pridelené prostriedky z rozpočtu ČR, a preto v decembri 2014 sa v plnej výške museli vrátiť Ministerstvu školství, mládeže a tělovýchovy ČR. V druhom roku trvania síce došlo k dofinancovaniu projektu zo strany Slovenska, ale Ministerstvo školstva ČR už nepristúpilo na navýšenie rozpočtu projektu. Napriek týmto skutočnostiam, v roku 2015 došlo nielen k naštartovaniu ale aj k upevneniu spolupráce našich výskumných kolektívov realizáciou mnohých pracovných ciest členov riešiteľského kolektívu, čím sa naplnil základný cieľ projektu.
Využili sme proteomické techníky vyvinuté v spolupráci s Univerzitou Pardubice, ktoré sú založené na afinitnej interakcii proteínov a ich fragmentov s modifikovanými magnetickými mikročasticami a následnou MS/MS detekciou. Táto technika bola použitá na mapovanie epitopov CA I voči novopripravenej monoklonálnej protilátke, ktorá je nielen prísne špecifická voči CA I, alé má aj inhibičný účinok na tento enzým (článok 1 pripravený do tlače). Následne sme s cieľom sledovať konformačné zmeny v štruktúre CA I po interakcii s uvedenou anti-CA I protilátkou uskutočnili H/D výmenu s následnou HR-FTMS analýzou na spolupracujúcom pracovisku. Tieto výsledky sú v štádiu hodnotenia.
Následne sme napestovali 2 modelové bunkové línie (Erytroleukémia CA I pozitívna bunková línia získaná z erytroblastov - HEL 92.1.7., ATCC ® TIB-180 ™ a adenokarcinóm CA I negatívna bunková línia získaná z prsníkovej žľazy - SKBR3, ATCC ® HTB-30 ™) a sledovali sme reaktivitu uvoľnených antigénov voči séram pacientov s mnohopočetným myelómom v remisii. U uvedených pacientov sa vyvinul syndróm aplastic anémie po vysokodávkovej terapii a autológnej transplantácii krvotvorných buniek. Bolo zistené, že okrem autoprotilátky voči CA I, sérum jedného z testovaného pacientov reagovalo s výrazným titrom aj voči alfa-enoláze 1 (Eno1). U negatívnej kontroly však žiadna reaktivita nebola pozorovaná. Keďže Eno1 má kľúčovú úlohu v bunkovej invázii a v metastatickom šírení nádorov, domnievame sa, že anti-Eno1 autoprotilátky môžu byť nielen dobrým prognostickým markerom, ale aj dôležitým regulátorom patofyziologických procesov spojených s regresie tumoru (článok 2 pripravený do tlače).

44.) Príprava erytropoetínu, terapeutického hormónu ovplyvňujúceho tvorbu červených krviniek, expresiou v eukaryotickom bunkovom systéme a jeho ďalšia purifikácia
(Preparation of erythropoietin a therapeutic hormone affecting the production of red blood cells by expression in eukaryotic cell system and its further purification)

Zodpovedný riešiteľ:	Ľudovít Škultéty
Trvanie projektu:	1.7.2015 / 31.12.2018
Evidenčné číslo projektu:	APVV-14-0474
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 26000 €

Dosiahnuté výsledky:
V tomto roku došlo k zahájeniu projektu. Venovali sme sa najmä priamemu klonovaniu presnej cDNA sekvencie EPO získanej RT-PCR do vhodného dostupného eukaryotického expresného vektora. Na úvod sme použili štandardné metódy molekulárneho klonovania v E.coli.
Po zakúpení štandardu sme zároveň zahájili aj vývoj metódy purifikácie rekombinantného ľudského EPO ako postupnosť viacerých separačných krokov, založených najmä na chromatografii a membránových separačných procesoch. Esenciálnou súčasťou tohto procesu bol aj výber chromatografických adsorbentov a optimalizácia podmienok chromatografickej separácie pre vybrané adsorbenty. Hlavnými kritériami bola adsorpčná kapacita, selektivita separácie, výťažok a čistota získaného produktu.

45.) Biologický význam a farmakologické vlastnosti bioaktívnych proteínov v slinách kliešťov *(Biological significance and pharmacological features of bioactive proteins in tick saliva)*

Zodpovedný riešiteľ:	Iveta Štibrániová
Trvanie projektu:	1.10.2013 / 30.9.2017
Evidenčné číslo projektu:	APVV-0737-12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 39327 €

Dosiahnuté výsledky:
Tento rok sme nanovo rozbehli chovy tropických kliešťov Hyalomma excavatum, Rhipicephalus appendiculatus a Rhipicephalus pulchellus, z ktorých sme si počas celého roka pripravovali extrakty slinných žliaz (SGE) pre naše experimenty. Zároveň, podľa sezónneho výskytu, sme pripravovali dostatočné množstvo SGE aj z domácich kliešťov Dermacentor reticulatus a Ixodes ricinus. Sledovali sme vplyv týchto SGE na procesy riadené TGFb1, konkrétne TGFb1 indukovaný SMAD4 a p38 závislý signaling a TGFb1-stimulovanú migráciu buniek. Efekt sme sledovali na bunkách odlišne reagujúcich na TGFb1 stimul. V prípade ovplyvňovanie TGFb1-regulovaného signalingu cez SMAD4 na SiHa bunkách sme po vyladení reakčných podmienok zistili, že SGE všetkých nami testovaných druhov významne inhibovali TGFb1 signaling závislý na SMAD4 signálnej dráhe. V prípade efektu SGE na TGFb1 signaling závislý na p38 signálnej dráhe sme zistili rozdiely medzi druhmi, a zároveň sa nám potvrdil aj rozdiel v aktivite pre SGE D. reticulatus pripravené z rôznych fáz cicania. SGE H. excavatum vykazovali najslabší inhibičný efekt na nami sledovanú p38 závislú signálnu dráhu. Zaujímavým faktom bolo aj zistenie inhibičného vplyvu SGE I. ricinus na obe TGFb1 signálne dráhy. V oboch prípadoch SGE tohto kliešťa, ktorý doposiaľ nevykazoval TGFb1 viažucu aktivitu, významne potláčali stimuláciu oboch signálnych dráh. Pri sledovaní vplyvu SGE A. variegatum, H. excavatum, D. reticulatus a I. ricinus na migráciu buniek regulovanú TGFb1 výsledky naznačujú, že SGE rôznych druhov kliešťov síce migráciu stimulovanú TGFb1 potláčajú, ale pravdepodobne sa to deje procesom nezávislým od inhibície/ vyviazania TGFb1. V rámci týchto experimentov sme sledovali aj vplyv na proliferáciu metódou MTT a morfológiu buniek. V týchto pokusoch sme efekt na proliferáciu nezaznamenali. Experimenty pokračujú. Testovali sme vplyv SGE z kliešťov H. excavatum, D.reticulatus a I.ricinus cicajúcich 5 dní na expresiu génov zapojených v hojení rán, v angiogenéze a rakovine pomocou

real time PCR. Výsledky budú slúžiť na navrhnutie „custom“ platní s nami vybranými génmi najvýznamnejšie ovplyvnenými použitými SGE; experimenty sa momentálne vyhodnocujú. Naďalej pracujeme na identifikovaní a izolácii TGFb1 viažucej molekuly z SGE kliešťov pomocou kvasinkového dvojhybridného systému, máme pripravených oboch partnerov, kvasinky s plazmidom nesúcim gén pre TGFb1 a kvasinky s plazmidmi s vloženými úsekmi genómu kliešťa A. variegatum.

Vedecké výstupy:

Holíková V, Štibrániová I. „Efect of salivary gland extracts from selected tick species on TGF regulatedintracellular signal pathways", IV. Labudove dni, 4-6.IX. 2015, Smolenice, abstract book p. 23, oral presentation

Štibrániová I, Holíková V, Bartíková P. „Efect of bioactiv molecule in tick saliva on grawth factors coordinated processes, during wound healing - on cell migration and on cell cytoskeleton“, IV. Labudove dni, 4-6.IX. 2015, Smolenice, abstract book p. 71, poster.

Bartíková P, Smutná K, Štibrániová I. "Do salivary gland extracts from different tick species affect antiviral activity of humen interferon lambda-1?", IV. Labudove dni, 4-6.IX. 2015, Smolenice, abstract book p. 48, poster

Bartíková P, Štibrániová I, Slovák M, Holíková V, Hajnická V, Patricia A. Nuttall: „Tick toxins” target vertebrate host wound healing“, IST 2015 OXFORD, The 18th world congress of the International Society on Toxinology, 25-30 september, 2015, Oxford UK, abstract book p.144,

Bartíková P, Holíková V, Slovák M, Štibrániová I: „Ticks versus immune system: challenges for us”, Modbiolin workshop on Ticks &Tick-transmitted diseases 2015, T&TTD 2015), 26-27.marec 2015,. Český Krumlov, ČR, abstract book p.

Holíková V, Štibrániová I. „Vplyv vybraných extraktov slinných žliaz kliešťov (SGE) na prenos signálov regulovaných s transforming growth factor beta-1 (TGF-?1)v rôznych typoch buniek, Študentská vedecká konferencia Prif UK, zborník recenzovaných príspevkov, p.232

46.) Objasnenie nových prometastatických funkcií nádorovoasociovanej karbonickej anhydrázy IX a jej interakcie so zápalovou odpoveďou. *(Elucidation of novel pro-metastatic functions of tumor-associated carbonic anhydrase IX and its cross-talk with pro-inflammatory response.)*

Zodpovedný riešiteľ:	Eliška Švastová
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0816
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 32465 €

Dosiahnuté výsledky:
Inhibícia katalytickej aktivity CA IX pomocou špecifických inhibítorov predstavuje sľubný terapeutický nástroj. Dokázali sme, že sulfónamidový inhibítor extracelulárnych karbonických anhydráz ako aj potlačenie syntézy CA IX v bunkách s jej prirodzenou expresiou znižuje tvorbu invadopódií. Takisto dochádza aj k zníženiu proteolytickej aktivtity v invadujúcich štruktúrach membrány a dokazuje to potrebu CA IX-závislej acidifikácie počas prenikania buniek do extracelulárnej matrix. Taktiež sme dokázali, že silencing CA9 vedie k zníženiu expresie iných invadopodiálnych proteínov ako Arp2/3 a NHE1, čo zvyšuje potrebu CA IX pre tvorbu invadopódií. V nádorovom mikroprostredí dochádza k interakcii nádorových buniek s fibroblastami a bunkami

imunitného systému. Zistili sme, že kokultivácia nádorových buniek s fibroblastovými sferoidmi produkujúcimi zápalové cytokíny aktivuje expresiu CA IX aj za normoxických podmienok. Tento efekt sme potvrdili v dvoch odlišných nádorových modeloch a to v myelómovej a fibrosarkómovej bunkovej línii.
Adaptácia na nádorové mikroprostredie prináša aj zmeny metabolizmu nádorových buniek. Zistili sme, že expresia CA IX je nevyhnutná pre udržiavanie oxidatívnej fosforylácie cez glutaminolýzu ako aj produkciu acetyl CoA cez PDHA. Silencing CA9 vedie k redukcii využitia glutamínu v glutaminolýze a tým k redukcii množstva ATP a biomasy. Potvrdili sme, že CA IX-závislá redukcia expresie glutamátdehydrogenázy súvisí so zmenou intracelulárneho pH, nakoľko použitie inhibítora enzymatickej aktivity CA IX viedlo k rovnakému efektu. To znamená, že pH regulačná funkcia CA IX je dôležitá pre efektívnu glutaminolýzu nádorových buniek.

Vedecké výstupy:

Debreova M., Csaderova L., Sedlakova O., Pastorekova S., Svastova E.: Invadopodia formation and extensive extracellular matrix degradation of tumor cells depend on CA IX expression and catalytic activity.
2nd ISCaM meeting - Metabolism and microenvironmnet in cancer plasticity, september 16 – 19 2015, Venice, Italy, p. 91 (poster)

47.) Nové liečivá cielené voči polymeráze vírusu chrípky *(New drugs targeting infuenza virus polymerase)*

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.11.2010 / 30.4.2015
Evidenčné číslo projektu:	DO7RP-0025-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	European Molecular Biology Laboratory, Grenoble/Heidelberg, France/Germany
Počet spoluriešiteľských inštitúcií:	16 - Rakúsko: 3, Belgicko: 2, Nemecko: 4, Španielsko: 1, Francúzsko: 4, Slovensko: 1, USA: 1
Čerpané financie:	APVV: 14197 €

Dosiahnuté výsledky:
Identické s projektom FLUPHARM EU 7RP s názvom:"New drugs targeting influenza virus polymerase".
Cieľom projektu bol vývoj nových antivirotík - inhibítorov RNA polymerázy vírusov chrípky A (IAV). Dizajnovanie inhibítorov vírusovej RNA polymerázy zahŕňalo stanovenie detailnej štruktúry vírusovej RNA-dependentnej RNA polymerázy RTG štruktúrnou analýzou, syntézu týchto látok, testovanie ich toxicity in vitro a in vivo, preverenie farmakokinetických vlastností a efektívnosti inhibície replikácie IAV in vitro a in vivo.Testované látky museli spĺňať podmienku inhibičného účinku aj voči Tamiflu-rezistentnému (TR) IAV. Za týtmo účelom sme pripravili TR vírusu A/Mississippi/1/85 (H3N2) a TRV A/Perth/pandemický 2009 (H1N1).
Pre záverečné testovanie sa vybralo 20 účinných látok. Ich in vivo testovanie na toxicitu a antivírusový účinok viedol k selekcii jednej účinnej látky, SAV-17 174, ktorá poskytla 100%- nú protektivitu myšiam infikovaným letálnou dávkou vírusu chrípky A. Tento účinok bol porovnateľný s účinkom lieku Tamiflu vo všetkých sledovaných parametroch priebehu infekcie (žiadna strata na váhe, žiadne klinické príznaky ochorenia, žiadne patologické zmeny na orgánoch 20 dní po infekcii, index protektivity1). Ďalším dôležitým aspektom je, že táto nová látka je účinná aj voči Tamiflu rezistentným kmeňom vírusu chrípky, čo predstavuje významný potenciálny prínos pre zdravie ľudí.

Vedecké výstupy:

Janulikova J, Stropkovska A, Bobisova Z, Kosik I, Mucha V, Kostolansky F, Vareckova E. Virus-neutralizing antibody response of mice to consecutive infection with human and avian

influenza A viruses. In Acta Virologica : international journal, 2015, vol. 59, no. 2, p. 166-173. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Stropkovska A, Mikuskova T, Bobisova Z, Kosik I, Mucha Vojtech, Kostolansky F, Vareckova E. Immune response of mice to non-adapted avian influenza A virus. In Acta Virologica : international journal, 2015, vol. 59, no. 4, p. 350-359. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Skalickova S, Heger Z, Krejcova L, Pekarik V, Bastl K,Janda J, KOostolansky F, Vareckova E, Zitka O, Adam V, Kizek R. Perspective of use of antiviral peptides agaainst influeenza virus. In VIRUSES, 2015, vol. 7, no. 10, p. 5428-5442. (3.353 - IF2014). ISSN 1999-4915.

Kosik I, Praznovska M, Kosikova M, Bobisova Z, Holly J, Vareckova E, Kostolansky F, Russ G. The Ubiquitination of the Influenza A Virus PB1-F2 Protein Is Crucial for Its Biological Function. In PLoS ONE, 2015, vol. 10, no. 4, p. e0118477, eCollection 2015. (3.234 - IF2014). ISSN 1932-6203.

48.) Funkcia neuropeptidov and ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa *(The role of neuropeptides and receptors in regulation of pathogen transfer from ticks to their hosts)*

Zodpovedný riešiteľ:	Dušan Žitňan
Zodpovedný riešiteľ v organizácii SAV:	Eva Špitalská
Trvanie projektu:	1.7.2015 / 30.6.2019
Evidenčné číslo projektu:	APVV-14-0556
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:
Z nenacicaných a 3 dni cicajúcich kliešťov Ixodes ricinus sme vypitvali orgány: črevo, slinné žľazy, ovária, semenníky a synganglia, z ktorých sme následne izolovali celkovú RNA a reverznou transkriptázou sme izolovanú RNA prepísali do cDNA, ktorú ďalej využijeme na získanie génov kódujúcich neuropeptidy ako aj ich receptory.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

49.) Centrum pre inovačný výskum protinádorových a protivírusových stratégií *(Centre for Innovative Research of Antitumor and Antiviral Strategies)*

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.5.2011 / 31.8.2015
Evidenčné číslo projektu:	ITMS 26240220062
Organizácia je koordinátorom projektu:	nie
Koordinátor:	BioScience Slovakia s.r.o.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 162872 €

Dosiahnuté výsledky:
V poslednej fáze projektu sme sa zamerali hlavne na dokončenie vyvinutých detekčných postupov a testovanie biologického materiálu za účelom optimalizácie vyvinutých metodík slúžiacich na

detekciu patogénov a na komparáciu našich testov s komerčne dostupnými kitmi.

50.) Vybudovanie Kompetenčného centra pre výskum a vývoj v oblasti molekulárnej medicíny

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.10.2011 / 31.10.2015
Evidenčné číslo projektu:	ITMS 26240220071
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratilave
Počet spoluriešiteľských inštitúcií:	15
Čerpané financie:	111701,98 €

Dosiahnuté výsledky:
Identifikovali sme viaceré gény a signálne dráhy, ktorých expresia je zmenená v podmienkach hypoxie a potlačenej expresie CAIX. Tieto údaje poukazujú na reakciu nádorových buniek na stresové podmienky a otvárajú možnosti v cielenej regulácii a ovplyvňovaní identifikovaných génov/dráh s možnosťou využitia týchto poznatkov pri nádorovej terapii.

51.) Výskum programu onkogénu miR-155 pre potreby diagnózy a urcenia prognózy pri onkologických ochoreniach

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.7.2012 / 30.6.2015
Evidenčné číslo projektu:	ITMS 26240220074
Organizácia je koordinátorom projektu:	nie
Koordinátor:	KRD molecular technologies s. r. o.
Počet spoluriešiteľských inštitúcií:	1
Čerpané financie:	178189,32 €

Dosiahnuté výsledky:
V rámci projektu sa študovala expresia miR-155 a jeho prekurzoru pri-miR-155 v nádorových bunkách rôznych nádorových ochorení a na základe týchto poznatkov sa navrhol detekčný systém. Súčasne sa študovala hladina mRNA podliehajúcich inhibícii miRNA-155 u nádorových ochorení pre identifikáciu prognostických ukazovateľov a ich eventuálneho využitia v klinickej praxi.

52.) Centrum výskumu a vývoja imunologicky aktívnych látok

Zodpovedný riešiteľ:	Jaromír Pastorek
Zodpovedný riešiteľ v organizácii SAV:	Juraj Kopáček
Trvanie projektu:	1.3.2014 / 31.12.2015
Evidenčné číslo projektu:	26220220188
Organizácia je koordinátorom projektu:	nie
Koordinátor:	SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	26950,62 €

Dosiahnuté výsledky:
V roku 2015 bola ukončená stavba CVVIAL, boli zvalidované čisté priestory stavby a kritické

technologické vybavenie. Uskutočnil sa nákup a inštalácia prístrojového vybavenia. Na základe vypracovaného a schváleného štatútu a organizačného poriadku boli zriadené Biotechnologické laboratóriá SAV ako výstup projektu Vybudovanie Centra výskumu a vývoja imunologicky aktívnych látok. Uskutočnilo sa výberové konanie a realizoval sa nákup laboratórneho a kancelárskeho nábytku. V decembri 2015 boli Biotechnologické laboratóriá SAV slávnostne otvorené do prevádzky.
V rámci Aktivity 2.1 boli ďalej rozvíjané aktivity na príprave bio-farmaceutík v eukaryotoch; na určovaní genetickej stability vybraných vakcinačných vírusov po pasážovaní na alternatívnych bunkových substrátoch a na vývoji metodík kvantifikácie a typizácie ricketsiových patogénov. Vyvíjali sa aktivity smerujúce k identifikácii potenciálnych komerčných partnerov pre spoluprácu v oblasti výskumu a vývoja biofarmaceutík ako jedného z prostriedkov udržateľnosti projektu.

53.) Univerzitný vedecký park pre biomedicínu Bratislava

Zodpovedný riešiteľ:	Jaromír Pastorek
Zodpovedný riešiteľ v organizácii SAV:	Jaromír Pastorek
Trvanie projektu:	1.3.2013 / 31.12.2015
Evidenčné číslo projektu:	ITMS26240220087
Organizácia je koordinátorom projektu:	nie
Koordinátor:	SAV
Počet spoluriešiteľských inštitúcií:	9
Čerpané financie:	26075,05 €

Dosiahnuté výsledky:
Hlavným výstupom projektu je vybudovanie Pavilónu lekárskych vied, ktorý združuje viaceré ústavy SAV biomedicínskeho zamerania spolu z partnermi z Univerzity Komenského v Bratislave. Vybudovanie pavilónu vytvára predpoklady pre efektívnejšiu spoluprácu partnerov projektu.

Programy: Vedecko-technické projekty

54.) Podpora MVTS - Nové liečivá cielené voči polymeráze vírusu chrípky *(New drugs targeting influenza virus polymerase)*

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.11.2010 / 30.4.2015
Evidenčné číslo projektu:	259751
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV : 4000 €

Dosiahnuté výsledky:
Zhodné s výsledkami uvedenými pre projekt 7. RP rovnakého názvu
Cieľom projektu bol vývoj nových antivirotík - inhibítorov RNA polymerázy vírusov chrípky A (IAV). Dizajnovanie inhibítorov vírusovej RNA polymerázy zahŕňalo stanovenie detailnej štruktúry vírusovej RNA-dependentnej RNA polymerázy RTG štruktúrnou analýzou, syntézu týchto látok, testovanie ich toxicity in vitro a in vivo, preverenie farmakokinetických vlastností a efektívnosti inhibície replikácie IAV in vitro a in vivo.Testované látky museli spĺňať podmienku inhibičného účinku aj voči Tamiflu-rezistentnému (TR) IAV. Za týmto účelom sme pripravili TR vírusu A/Mississippi/1/85 (H3N2) a TRV A/Perth/pandemický 2009 (H1N1).
Pre záverečné testovanie sa vybralo 20 účinných látok. Ich in vivo testovanie na toxicitu a antivírusový účinok viedol k selekcii jednej účinnej látky, SAV-17 174, ktorá poskytla 100%- nú

protektivitu myšiam infikovaným letálnou dávkou vírusu chrípky A. Tento účinok bol porovnateľný s účinkom lieku Tamiflu vo všetkých sledovaných parametroch priebehu infekcie (žiadna strata na váhe, žiadne klinické príznaky ochorenia, žiadne patologické zmeny na orgánoch 20 dní po infekcii, index protektivity1). Ďalším dôležitým aspektom je, že táto nová látka je účinná aj voči Tamiflu rezistentným kmeňom vírusu chrípky, čo predstavuje významný potenciálny prínos pre zdravie ľudí.

Vedecké výstupy:

Janulikova J, Stropkovska A, Bobisova Z, Kosik I, Mucha V, Kostolansky F, Vareckova E. Virus-neutralizing antibody response of mice to consecutive infection with human and avian influenza A viruses. In Acta Virologica : international journal, 2015, vol. 59, no. 2, p. 166-173. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Stropkovska A, Mikuskova T, Bobisova Z, Kosik I, Mucha Vojtech, Kostolansky F, Vareckova E. Immune response of mice to non-adapted avian influenza A virus. In Acta Virologica : international journal, 2015, vol. 59, no. 4, p. 350-359. (1.280 - IF2014). (2015 - Current Contents). ISSN 0001-723X.

Skalickova S, Heger Z, Krejcova L, Pekarik V, Bastl K,Janda J, KOostolansky F, Vareckova E, Zitka O, Adam V, Kizek R. Perspective of use of antiviral peptides agaainst influeenza virus. In VIRUSES, 2015, vol. 7, no. 10, p. 5428-5442. (3.353 - IF2014). ISSN 1999-4915.

Kosik I, Praznovska M, Kosikova M, Bobisova Z, Holly J, Vareckova E, Kostolansky F, Russ G. The Ubiquitination of the Influenza A Virus PB1-F2 Protein Is Crucial for Its Biological Function. In PLoS ONE, 2015, vol. 10, no. 4, p. e0118477, eCollection 2015. (3.234 - IF2014). ISSN 1932-6203.

Programy: SASPRO

55.) Cielený zásah karbonickej anhydrázy IX a pyruvát dehydrogenázy kinázy 1 v hypoxických kolorektálnych nádoroch *(Targeting carbonic anhydrase IX and pyruvate dehydrogenase kinase 1 in hypoxic colorectal tumors)*

Zodpovedný riešiteľ:	Tereza Goliaš
Trvanie projektu:	1.6.2015 / 31.5.2018
Evidenčné číslo projektu:	0035/01/02
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	P SAV: 39000 €

Dosiahnuté výsledky:
V prvých mesiacoch projektu ešte nie sú žiadne publikované výsledky, avšak podarilo sa mi vyradiť gén pre PDHK1 v Panc1 a RKO ľudských nádorových bunkových líniách (vytvoriť knock-outy) pomocou metódy CRISPR. Vďaka tomu bolo možné potvrdiť úlohu PDHK1 vo fosforylácii serínu 232 pyruvát dehydrogenázy. Ďalšie dve fosforylačné miesta (seríny 293 a 300) zostali nezmenené, čo znamená, že ďalšie tri kinázy (PDHK2, PDHK3, PDHK4) sú schopné tieto dve miesta fosforylovať, avšak Ser232 dokáže fosforylovať výlučne PDHK1. Nádorové xenografty s vyradeným génom pre PDHK1 rástli signifikantne pomalšie ako kontrolné.

56.) IMUNOVIROLOGIKÁ: Imunomodulácia HCMV a jej imunoterapeutický potenciál.

(IMMUNOVIROLOGICS: Immune modulation by HCMV and its immunotherapeutic potential.)

Zodpovedný riešiteľ:	Ivana Nemčovičová
Trvanie projektu:	1.7.2015 / 31.12.2018
Evidenčné číslo projektu:	SASPRO 0003-01-02
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	4 - Rakúsko: 1, Česko: 1, Veľká Británia: 1, USA: 1
Čerpané financie:	7RP (rozpočtove): 22367 € Marie Curie (mimorozpoctove): 14911 €

Dosiahnuté výsledky:

1. Sekvencie TRAIL-R2 s ostatnými TRAIL receptormi boli porovnané a analyzované. Na základe toho boli predikované UL141 väzobné miesta. Sekvencie Ig domén CD155, UL141, TIGIT a UL16 boli porovnané a analyzované, pričom sme objavili evolučne konzervované znaky.
2. Návrhli sme a pripravili DNA expresné konštrukty vybraných génov kódovaných virulentny?mi kmeňmi HCMV ako aj ich vybrané ľudské bunkové receptory. Preferencia bola kladená na funkčné ektodomény a extracelulárne časti týchto molekúl.
3. Vybrali sme expresný systém a uskutočnili samotnú expresiu rekombinantných proteínov z vhodných eukaryotických aj prokaryotických buniek. Tento výber sa konal s ohľadom na posttranslačnú modifikáciu v jednotlivých systémoch vhodnú pre vírusové glykoproteíny či endogénne receptory.
4. Purifikácia exprimovaných molekúl bola uskutočnená pomocou rôznych chromatograficky?ch metód, pričom optimalizácia týchto stratégií bola s cieľom získať čo najkvalitnejšie proteíny k ďalším biochemickým a biofyzikálnym aplikáciám.

Vedecké výstupy:

Nemcovicova I, Nemcovic M, Kudelova M, Benedict CA, Zajonc DM. New insight into strategies employed by HCMV in immunomodulation. J Antivir Antiretrovir. 2015 Dec;7:4.

Príloha C

Publikačná činnosť organizácie (*generovaná z ARL*)

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ADCA01 BOHÁCSOVÁ, Monika - FILIPČÍK, Peter - OPATTOVÁ, A. - VALÁRIKOVÁ, Jana - QUEVEDO-DIAZ, Marco - ŠKULTÉTY, Ľudovít - NOVÁK, Michal - SEKEYOVÁ, Zuzana. Survival of rat cerebrocortical neurons after rickettsial infection. In Microbes and Infection, 2015, vol. 17, no. 11-12, p. 845-849. (2.861 - IF2014). (2015 - Current Contents). ISSN 1286-4579.

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ADCA06 ISAACSON, B. - BULLOVÁ, Petra - FRONE, M. - CLICK, A. - HAMPLOVA, B. - RABAGLIA, J. - WOODRUFF, S. - NWARIAKU, F. - KATHURIA, A. - PACAK, K. - GHAYEE, H.K. AN AGGRESSIVE TEMPORAL BONE SDHC PARAGANGLIOMA ASSOCIATED WITH INCREASED HIF-2A SIGNALING. In Endocrine practice, 2015, vol., no, p. Epub ahead of print. (2.811 - IF2014). (2015 - Current Contents, Current Contents - Clinical Medicine). ISSN 1530-891X.

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of Murine Herpesvirus 68 (MHV-68) in Dermacentor reticulatus Ticks. In Microbial Ecology, 2015, vol. 70, no. 3, p. 785-795. (2.973 - IF2014). (2015 - Current Contents). ISSN 0095-3628.

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ADCA12 MIŤKOVÁ, K - BERTHOVÁ, Lenka - KALÚZ, Stanislav - KAZIMÍROVÁ, Mária - BURDOVÁ, L - KOCIANOVÁ, Elena. First detections of Rickettsia helvetica and R. monacensis in ectoparasitic mites (Laelapidae and Trombiculidae) infesting rodents in south-western Slovakia. In Parasitology Research, 2015, vol. 114, no. 7, p. 2465–2472. (2.098 - IF2014). (2015 - Current Contents). ISSN 0932-0113. Dostupné na internete: <http://link.springer.com/article/10.1007/s00436-015-4443-x>.

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samples of kidney transplant recipients. In Immunobiology, 2015, vol. 220, no. 4, p. 533-537. (3.044 - IF2014). (2015 - Current Contents). ISSN 0171-2985. VEGA no. 2/0124/11.

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ADMA01 KAZIMÍROVÁ, Mária - ŠTIBRÁNIOVÁ, Iveta. Tick salivary compounds: their role in modulation of host defences and pathogen transmission. In Frontiers in Cellular and Infection Microbiology / Front. Cell. Infect. Microbiol. : Specialty Journal of Frontiers in Microbiology., 2013, vol. 3, article 43, 19 p. (3.719 - IF2014). ISSN 2235-2988 (el). The biology and ecology of ticks shape the potential for the transmission of zoonotic pathogens., 2015, p. 121-139. (3.719 - IF2014). ISSN 1664-8714. Dostupné na internete: <http://www.frontiersin.org/Cellular_and_Infection_Microbiology/10.3389/fcimb.2013.00043/abstract>.

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5. [1.1] Rego, ROM (Rego, Ryan O. M.)[1] ; Bestor, A (Bestor, Aaron)[1] ; Stefka, J (Stefka, Jan)[2,3] ; Rosa, PA Population Bottlenecks during the Infectious Cycle of the Lyme Disease Spirochete Borrelia burgdorferi PLOS ONE Volume: 9 Issue: 6 Article Number: e101009, 2014, WOS
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11. [3] DÍAZ MARTÍN, Veronica (2014) Análisis de la saliva de Ornithodoros moubata y producción de antígenos recombinantes para el desarrollo de test serológicos y vacunas antigarrapata. Tesis doctorales IRNASA. Editor: CSIC - Instituto de Recursos Naturales y Agrobiología de Salamanca (IRNASA). 208 pp. URI : http://hdl.handle.net/10261/101385, Google Scholar

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AFC01 KAZÁR, Ján - BREZINA, Rudolf. Control of rickettsial diseases. In Rickettsiae and Rickettsial diseases. Rickettsiae and Rickettsial diseases.

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BDF01 LÍBIKOVÁ, Helena. Epidemiology of neuroviral infections. In Lekársky obzor : odborný časopis Ministerstva zdravotníctva SR a Slovenskej postgraduálnej akadémie medicíny, 1952, vol. 1, no. 3-4, p. 128-131. ISSN 0457-4214.

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1. [2.2] Frey, S.a, Essbauer, S.a, Zöller, G.a, Klempa, B.bc, Dobler, G.a, Pfeffer, M. Full genome sequences and preliminary molecular characterization of three tick-borne encephalitis virus strains isolated from ticks and a bank vole in Slovak Republic Virus Genes Volume 48, Issue 1, February 2014, Pages 184-188, SCOPUS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

RNDr. Tatiana Betáková, DrSc.
Názov semestr. predmetu: Imunológia vírusových nákaz- vírus chrípky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Mikrobiológie a virológie

RNDr. Tatiana Betáková, DrSc.
Názov semestr. predmetu: Štruktúra a morfológia vírusov
Počet hodín za semester: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Mikrobiológie a virológie

RNDr. Ivan Košík, PhD.
Názov semestr. predmetu: Imunológia vírusových nákaz
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Mikrobiológie a virológie

RNDr. Ivan Košík, PhD.
Názov semestr. predmetu: Vybrané kapitoly z genetiky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Genetiky

RNDr. Marcela Kúdelová, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z virológie - Molekulárna diagnostika vírusov
Počet hodín za semester: 4
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, mikrobiológie a virológie

prof. RNDr. Silvia Pastoreková, DrSc.
Názov semestr. predmetu: Biosyntéza vírusov
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

prof. RNDr. Silvia Pastoreková, DrSc.
Názov semestr. predmetu: Bunková a molekulárna biológia rakoviny
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

prof. RNDr. Silvia Pastoreková, DrSc.
Názov semestr. predmetu: Regulácia expresie génov v eukaryotoch
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Semestrálne cvičenia:

RNDr. Margaréta Fogelová
Názov semestr. predmetu: Základné cvičenia z virológie
Počet hodín za semester: 16
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Jaroslav Hollý
Názov semestr. predmetu: Základné cvičenia z virológie
Počet hodín za semester: 32
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Jaroslav Hollý
Názov semestr. predmetu: Základné cvičenia z virológie pre pedagógov
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Radka Matúšková
Názov semestr. predmetu: Cvičenie z molekulárnej biológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Molekulárnej biológie

Ing. Ľudovít Škultéty, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z mikrobiológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Zdeno Šubr, CSc.
Názov semestr. predmetu: Vírusy rastlín a hmyzu
Počet hodín za semester: 20
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie

Mgr. Karolína Tomčíková
Názov semestr. predmetu: základné cvičenia z virológie pre pedagógov
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, katedra mikrobiológie a virológie

Mgr. Lucia Turianová
Názov semestr. predmetu: Základné cvičenia z virológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Jana Valáriková
Názov semestr. predmetu: Základné cvičenia z mikrobiológie
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Mikrobiológie a Virológie

Semináre:

MVDr. Juraj Kopáček, DrSc.
Názov semestr. predmetu: Biochemické metódy vo virológii
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Terénne cvičenia:

Individuálne prednášky:

RNDr. Boris Klempa, PhD.
Názov semestr. predmetu: Vybrané kapitoly z virológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

MVDr. Juraj Kopáček, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z molekulárnej biológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Molekulárnej Biológie

MVDr. Juraj Kopáček, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z virológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Ingeborg Režuchová, PhD.
Názov semestr. predmetu: Imunológia vírusových nákaz
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Monika Sláviková, PhD.
Názov semestr. predmetu: Imunológia vírusových nákaz
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Zdeno Šubr, CSc.
Názov semestr. predmetu: Vybrané kapitoly z molekulárnej biológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Príloha E

Medzinárodná mobilita organizácie

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Počet vyslaní spolu						

(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	Ing. Vladimír Havlíček, PhD.	7				
	Jakub Zápal	5				
	Josef Chmellík	2				
	Mgr. Petr Pompach, PhD.	7				
	prof. Ing. Vladimír Havlíček, Dr.	7				
Francúzsko	Dr. Thierry Candresse	8				
Počet prijatí spolu	**6**	**36**				

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	WANGS	Miroslav Glasa	1
		Lukáš Predajňa	1
Česko	CCSMS	Gabriela Flores-Ramírez	3
	ČSKOR	Miroslav Glasa	3
		Zdeno Šubr	3
		Zuzana Vozárová	3
	EOD	Petra Belvončíková	4
	KMM	Lukáš Predajňa	2

	RECAMO	Martin Kéry	2
		Juraj Kopáček	2
		Elena Ondrisková	2
		Silvia Pastoreková	2
		Petra Švančarová	2
		Ivana Vidličková	1
	TD	Petra Belvončíková	2
		Tímea Benkóczka	2
		Veronika Lachová	2
		Katarína Lapošová	2
		Ľubomíra Lukáčiková	2
		Radka Matúšková	2
		Ingeborg Režuchová	2
		Róbert Szabó	2
	TTTD	Pavlína Bartíková	2
		Viera Holíková	2
		Boris Klempa	2
		Martina Ličková	2
		Monika Sláviková	2
		Iveta Štibrániová	2
Čína	ICCM2015	Karol Ondriaš	7
Grécko	GERI	Eva Špitalská	5
	MEDMS III	Ľudovít Škultéty	5
India	29 th ISMAS	Ľudovít Škultéty	11
JAR	NVB	Boris Klempa	2
Nemecko	AMSV	Boris Klempa	4
	IPPC	Lukáš Predajňa	4
Poľsko	CEEPC	Maksym Danchenko	6
Rakúsko	APRS	Maksym Danchenko	3
		Gabriela Flores-Ramírez	3
	ICLB	Eva Špitalská	4
	MSF	Ivana Nemčovičová	4
Švajčiarsko	ESCCAR	Lenka Berthová	6
		Monika Bohácsová	6
		Marco Diaz	6
		Gabriela Flores-Ramírez	6
		Zuzana Sekeyová	6
		Ľudovít Škultéty	6
		Eva Špitalská	6
		Jana Valáriková	6
Taliansko	EACR	Martin Benej	4
		Michaela Debreová	4
		Martin Kéry	4
		Juraj Kopáček	4
		Elena Ondrisková	4
		Silvia Pastoreková	4
		Eliška Švastová	4
		Ivana Vidličková	4
USA	WCV	Tatiana Betáková	4
		Marcela Kúdelová	4
Veľká Británia	WCIST	Pavlína Bartíková	6
Spolu	**23**	**59**	**211**

Skratky použité v tabuľke C:

- 29 th ISMAS - 29 th International Symposium on Mass Spectrometry 2015
- AMSV - 25th Annual Meeting of the Society for Virology
- APRS - APRS Symposium and Late Summer Meeting
- CCSMS - IV. Conference of the Czech Society for Mass Spectrometry
- CEEPC - 9th Central and Eastern European Proteomic Conference
- ČSKOR - XX. česká a slovenská konference o ochraně rostlin
- EACR - Konferencia o nádorovom metabolizme a získanie ceny EACR
- EOD - Experimental Oncology Days
- ESCCAR - ESCCAR International Congress on Rickettsia and other Intracellular Bacteria
- GERI - Genes, Ecosystems and Risk of Infection
- ICCM2015 - Internation Conference on Cardiovascular Medicine
- ICLB - 14th International Conference on Lyme Borreliosis and other Tick - Borne Diseases
- IPPC - XVIII. International Plant Protection Congress
- KMM - XXIV. konference mladých mikrobiologu
- MEDMS III - 3rd Mediterranean Sea Region Countries Mass Spectrometry MEDMS III
- MSF - MassSpec Forum
- NVB - German - African Workshop New Viruses in Bats within the Framework of the German Affrican Collaboration
- RECAMO - CA IX Recamo
- RECAMO - Cancer Research towards Applied Oncology
- TD - Tomáškovy dny - XXIV. Konference mladých mikrobiologu
- TTTD - Ticks and Tick - Transmitted Diseases 2015
- WANGS - Workshop Application on Next Genereation Sequencing for the study and Diagnosis of Plant Viruses in Agriculture
- WCIST - 18th World Congress of the International Society on Toxinology
- WCV - 5th World Congress of Virology