Virologický ústav
Slovenskej akadémie vied

Správa o činnosti VÚ SAV za rok 2012

Bratislava

január 2013

Obsah osnovy Správy o činnosti VÚ SAV za rok 2012

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1. Základné údaje o VÚ SAV

1.1. Kontaktné údaje

Názov: Virologický ústav SAV
Riaditeľ: MVDr. Juraj Kopáček, DrSc.
Zástupca riaditeľa: Ing. Ľudovít Škultéty, PhD.
Vedecký tajomník: RNDr. Tatiana Betáková, CSc.
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/ 59 302 405
Fax: 02/ 54 77 42 84
E-mail: virupold@savba.sk

Názov a adresa detašovaného pracoviska:
Oddelenie biotechnologických aplikácií
Jarková 269/17, 082 22 Šarišské Michaľany
Vedúci detašovaného pracoviska:
MVDr. Juraj Kopáček, DrSc.

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	114	31	83	6	24	101	91,16	51,62
Vedeckí pracovníci	57	21	36	3	14	47	40,32	40,32
Odborní pracovníci VŠ	24	3	21	3	8	22	19,3	11,3
Odborní pracovníci ÚS	22	2	20	0	2	21	20,94	0
Ostatní pracovníci	11	5	6	0	0	11	10,6	0

Tabuľka 1b: štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2012)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	5	16	2	1	5	11	5
Ženy	5	31	2	0	5	12	19

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

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

Tabuľka 1d: priemerný vek zamestnancov organizácie k 31.12.2012

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	47,6	49,3	47,0
Ženy	42,8	40,4	40,8
Spolu	44,1	43,6	43,1

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

V sledovanom období roka 2012 došlo dňom 10.01.2012 k vzniku nového vedeckého Oddelenia biotechnologických aplikácií a zároveň tým aj k zriadeniu detašovaného pracoviska v Šarišských Michaľanoch.
K iným organizačným zmenám nedošlo. Základnými vedeckými organizačnými jednotkami zostávajú oddelenia, ktorých cieľom je riešenie aktuálnych vedeckých problémov.

Zoznam oddelení k 31.12.2012:
- 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 31.12.2012:
- 200 - právno-organizačný úsek
- 300 - ekonomický úsek
- 400 - technický úsek

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a: zoznam domácich projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
			A		B
	A	B	spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2012 financované VEGA	26	2	173.710,-	171.725,-	1.985,-
2. Projekty, ktoré boli r. 2012 financované APVV	5	2	250.220,-	235.802,-	14.418,-
3. Projekty OP ŠF	2	6	1.906.779,23,-	1.202.309,74	704.469,49
4. Projekty centier excelentnosti SAV	0	1	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	1	1	-	-	-

A – ústav je nositeľom projektu
B – ústav sa zmluvne podieľa na riešení projektu

Tabuľka 2b: zoznam domácich projektov podaných v roku 2012

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2012	0	0	0
2. Projekty výziev OP ŠF podané r. 2012	Bratislava		
	Regióny		
3. Projekty výziev FM EHP podané r. 2012	0	0	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2012

Tabuľka 2c: zoznam medzinárodných projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Projekty 6. a 7. rámcového programu EÚ	0	5	207.063,-	-	207.063,-
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF, ESA a iné	0	4	-	-	-
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	0	0	-	-	-
4. Bilaterálne projekty	0	2	-	-	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	0	7	177.769,-	177.769,-	17138
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

A – ústav je nositeľom projektu
B – ústav sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ podané v roku 2012

Tabuľka 2d: podané projekty 7. RP EÚ v roku 2012

	A	B
Počet podaných projektov v 7. RP EÚ	0	12

A – ústav je nositeľom projektu
B – ústav sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

Štrukturálne fondy EÚ považujeme za mimoriadne dôležité hlavne z pohľadu získavania nového a unikátneho prístrojového vybavenia. Vďaka kvalitným projektom, ktoré sa na ústave dlhodobo riešia, sa Virologický ústav SAV aktívne zapojil do riešenia desiatich projektov ŠF ako žiadateľ alebo partner. V súčasnosti má rozpracované xxxe žiadosti na zapojenie sa do aktuálnych výziev.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Induckia protektívnej imunity HA2 glykopolypeptidom vírusu chrípky A a možnosti jej uplatnenia v prevencii voči chrípke.

Induction of protective immune response by HA2 glycopolypeptide of influenza A virus and its potential utilization in prevention against influenza.

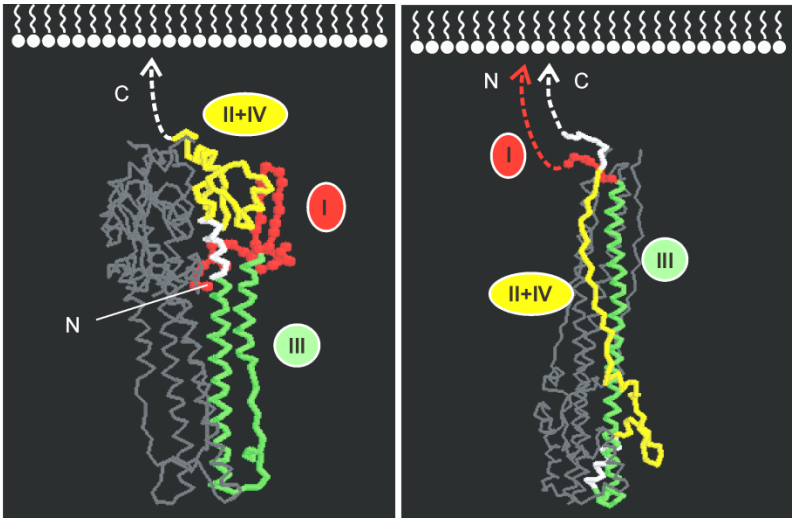
Staneková, Z.,- **Mucha, V.,** - **Sládková, T.,** - Blaškovičová, H. - **Kostolanský, F., - Varečková, E.,** Epitope specificity of anti-HA2 antibodies induced in humans during influenza infection. In *Influenza and Other Respiratory Viruses*, 2012, vol. 6, no. 6, p. 389 - 395. (4.157 - IF2011). (2012 - Current Contents). ISSN 1750-2640.

Staneková, Z., - Adkins, I. - Kosová, M. - **Janulláková, J.,** - Sebo, P. - **Varečková, E.,** Heterosubtypic protection against influenza induced by adenylate cyclase toxids delivering conserved HA2 subunit of hemagglutinin. In *Antiviral Research*, 2012, vol., no, p., 2012 Oct 2.[Epub ahead of print]. (4.301 - IF2011). (2012 - Current Contents). ISSN 0166-3542.

Janulíková, J., - Staneková, Z., - Mucha, V., - Kostolanský, F., - Varečková, E., Two distinct regions of HA2 glycopolypeptide of influenza virus hemaglutinin elicit cross-protective _si t_n against influenza. In *Acta Virologica : international journal*, 2012, vol. 56, no. 3, p. 169 – 176. (0.682 – IF2011). (2012 – Current Contents). ISSN 0001-723X.

Súčasné vakcíny proti chrípke sú úzko špecifické voči vakcinačným kmeňom a ich antigénne príbuzným variantom. Za účelom rozšírenia účinku týchto vakcín sa zavádzajú nové prístupy, ktoré spočívajú vo vyhľadávaní takých konzervovaných antigénov vírusu chrípky, ktoré sú schopné indukovať imunitnú odpoveď s ochranným účinkom. Jedným z takýchto antigénov je konzervatívna časť hemaglutínínu, HA2 glykopolypeptid (gp), ktorý je predmetom nášho výskumu. V minulosti sme ukázali, že HA2-špecifické protilátky inhibujú replikáciu vírusu a po ich intravenóznej aplikácii chránili myši pred letálnou infekciou vírusom chrípky. Analýza ľuských konvalescentných sér potvrdila prítomnosť HA2-špecifických protilátok vytvorených u ľudí počas prirodzenej chrípkovej infekcie, avšak jednotlivé epitopy sú slabé imunogény, preto hladina nimi vyvolaných protilátok je nízka. Cielenou imunizáciou s HA2 gp sa nám podarilo vyvolať dostatočne vysokú tvorbu HA2-špecifických protilátok, ktoré sprostredkovali ochranu infikovaného jedinca nielen voči infekcii vírusom chrípky ľudského subtypu, ale aj voči vysokopatogénnemu vírusu chrípky vtáčieho pôvodu subtypu H7. Tento ochranný účinok HA2 gp sa ešte zvýšil po vložení HA2 epitopov do vektora, detoxifikovaného adenylát cyklázového toxínu *B. pertussis*, práve preto, že umožňuje stimuláciu nielen humorálnej imunity, ale aj imunity sprostredkovanej špecifickými cytotoxickými T-bunkami. Je to prvýkrát popísaná konštrukcia experimentálnej HA2 vakcíny, ktorá vyvoláva protilátkovú aj bunkovú imunitu, hoci na imunizáciu nebol použitý živý virus, ale purifikovaný protein.

Current vaccines against influenza have a narrow specificty to the vaccine strains and to their antigenically similar variants. To broaden spectrum of vaccine efficacy, novel approaches focused on conserved antigens of influenza A viruses (IAV) inducing protective immune response have been introduced. The subject of our studies is the conserved part of HA, its HA2 glycopolypeptide (gp). We previously showed that HA2-specific antibodies reduced the virus replication and after intravenous application they protected mice against the lethal IAV infection. Epitope analysis of human convalescent sera confirmed the presence of HA2-specific antibodies which were stimulated during the natural influenza infection by individual HA2 epitopes showed to be weak natural immunogens. Therefore the level of HA2-specific antibodies after natural infection is low. Antibodies created after targeted immunization with HA2 gp mediated the protection of mice against the lethal infection not only with human IAV, but also with highly pathogenic influenza A virus of avian origin of H7 subtype. The enhanced cross-protection was achieved after the insertion of selected HA2 epitopes into the vector, detoxified adenylate cyclase toxin *B. pertussis,* the benefit of which was obtained because it enables the stimulation of humoral and also of specific cytotoxic T-cell _si t_n. _si t the first experimental HA2-based cross-protective vaccine against influenza stimulating antibody and cell immune response, though purified protein and not live virus was used as immunogen.



Obr.: Schématické znázornenie štruktúry HA2 glycopolypeptidu vírusu chrípky typu A v natívnej (vľavo) a postfuzogénnej (vpravo) konformácii s vyznačenými úsekmi obsahujúcimi antigénne miesta I, II, III a IV.

Fig.: Scheme of the influenza A virus HA2 glycopolypeptide structure in the native (left) and postfusion (right) conformation. Regions comprising antigenic sites I, II, III, and IV are distinguished by colours.

2.3.2. Aplikačný typ

Zhodnotenie molekulárnej variability a genetických determinantov patogenicity vírusu šarky slivky (PPV) pre vývoj efektívnejších kontrolných stratégií .

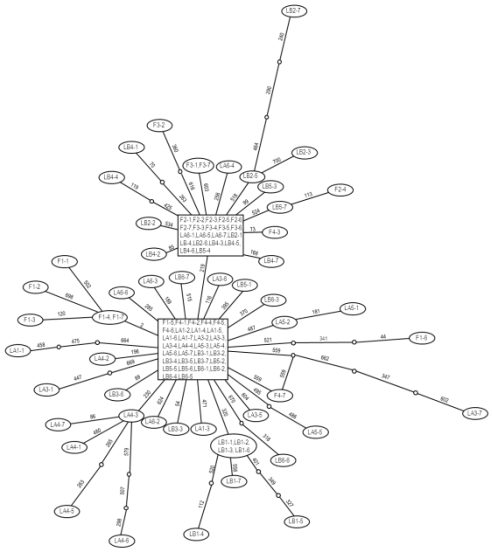
Assessment of the molecular variability and pathogenicity genetic determinants of Plum pox virus (PPV) for the development of effective control strategies .

Nagyová A, Kamencayová M, Glasa M, Šubr Z. The 3‘ – proximal part of the Plum pox virus P1 gene determinates the symptom expression in two herbaceous host plants. Virus Genes, 2012, vol. 44, no. 3, p. 505 – 514.

Predajňa L, Šubr Z, Candresse T, **Glasa M.** Evaluation of the genetic diversity of Plum pox virus in a single plum tree. Virus Research, 2012, vol. 167, p. 112 – 117.

Vírus šarky slivky (PPV) je RNA vírus a patrí k hospodársky najzávažnejším _si t_nny_ ovocných drevín. Rastlinné RNA vírusy sa vyznačujú dynamickou genetickou štruktúrou populácií, výsledkom čoho môže byť ich značná vnútrodruhová a vnútroizolátová molekulárna variabilita. Štúdiom medzikmeňových infekčných chimér a cielenou mutagenézou sme zmapovali genetické determinanty symptomatologického prejavu PPV a zistili sme, že zmena jedinej aminokyseliny v neštruktúrnom vírusovom proteíne môže viesť k zmene patotypu tohto vírusu. Dokázali sme vysokú vnútrohostiteľskú molekulárnu variabilitu PPV v prirodzenom hostiteľovi (slivka, Prunus domestica) 7 rokov po cielenej inokulácii charakterizovaným PPV izolátom. Evolúcia viedla ku generácii dominantného a množstva minoritných variant izolátu, avšak bez ich jasnej štrukturácie vo vzťahu k architektúre stromu. Hoci sme nezistili rozdiely v konsenzuálnej sekvencii zdrojového a aktuálne cirkulujúceho vírusového izolátu vedúce k zmenám na aminokyselinovej úrovni, zistená heterogénna RNA populácia v strome predstavuje vysoký adaptačný potenciál vírusu. Na základe dostupných sekvencií vírusu sme navrhli polyvalentnú RT-PCR zachytávajúcu všetky doteraz známe PPV kmene, využiteľnú v efektívnej rutinnej diagnostike vírusu.

Plum pox virus (PPV) is an RNA virus belonging to the most economically important pathogens of fruit trees. Plant RNA viruses are characterised by dynamic genetic structure of populations resulting in the substantial intra-species and intra-isolate molecular variability. We have mapped the genetic determinants involving in the symptom expression of PPV by the study of intra-strain infectious chimeras and site-directed mutagenesis. We have detected, that even one aminoacid substitution in the nonstructural viral protein can lead to the pathotype changement. A high intra-host molecular variability of PPV in a single natural host (plum, Prunus domestica) has been observed 7 years post controlled inoculation by a characterised PPV isolate. Evolution has lead to the generation of dominant and a number of minor variants of the isolate, however, without their clear-cut structuration in relation to the tree architecture. Although the comparison of the consensus sequence with the original source isolate showed no difference at the aminoacid level, the observed heterogenous RNA population within a tree constitutes a high adaptation potential of the virus. A polyvalent RT-PCR has been developed based on the available viral sequences, able to intercept all known PPV strains, which can be applied in the effective routine detection of the virus.



Obr. Symptómy spôsobené vírusom šarky slivky (vľavo) a príklad genetickej diverzity vírusovej populácie zistenej v strome slivky (vpravo).

Fig. Symptoms caused by Plum pox virus (on the left) and an example of observed genetic diversity of viral population viral population detected in a single plum tree (on the right)

2.3.3. Medzinárodné vedecké projekty

Projekt 7. Rámcového programu EVA (CAPACITIES-228292)
01/2009-12/2014

Izolácia a charakterizácia patogénneho potenciálu nových hantavírusových izolátov
Isolation and pathogenic relevance evaluation of novel hantavirus isolates

Klempa B, Witkowski PT, Popugaeva E, Auste B, Koivogui L, Fichet-Calvet E, Strecker T, Ter Meulen J, Krüger DH. Sangassou virus, the first hantavirus isolate from Africa, displays genetic and functional properties distinct from those of other murinae-associated hantaviruses. J Virol. 2012;86(7):3819-27

Popugaeva E, Witkowski PT, Schlegel M, Ulrich RG, Auste B, Rang A, Krüger DH, **Klempa B**. Dobrava-Belgrade Hantavirus from Germany shows receptor usage and innate _si t_n induction consistent with the pathogenicity of the virus in humans. PloS One. 2012;7(4):e35587.

Klempa B, Avsic-Zupanc T, Clement J, Dzagurova TK, Henttonen H, Heyman P, Jakab F, Kruger DH, Maes P, Papa A, Tkachenko EA, Ulrich RG, Vapalahti O, Vaheri A. Complex evolution and epidemiology of Dobrava-Belgrade hantavirus: definition of genotypes and their characteristics. Arch Virol. 2012 [Epub ahead of print]

Klempa B, Koulemou K, Auste B, Emmerich P, Thomé-Bolduan C, Günther S, Koivogui L, Krüger DH, Fichet-Calvet E. Seroepidemiological study reveals regional co-occurrence of Lassa- and Hantavirus antibodies in Upper Guinea, West Africa. Trop Med Int Health. 2012 [Epub ahead of print]

Hantavírusy sú významné ľudské _si t_nny prenášané najmä hlodavcami a spôsobujúce závažné, život ohrozujúce ochorenia; hemoragickú horúčku s renálnym syndrómom v Ázii a v Európe a hantavírusový pulmonárny syndróm v Amerike. Len nedávno sa nám podarilo objaviť vôbec prvé hantavírusy aj v Afrike. Vďaka projektu EVA, ako aj v rámci dlhodobej spolupráce s pracoviskom Charité – Universitätsmedizin v Berlíne, sme sa zúčastnili niekoľkých medzinárodných štúdii, ktorých výsledkom je izolácia a charakterizácia nových hantavírusových izolátov a analýza ich patogénneho potenciálu. Mimoriadne významná je izolácia prvého Afrického hantavírusu, Sangassou vírusu, a stanovanie jeho bunkového receptora a zistenie, že je silným induktorom interferónu lambda. Rovnako významné je aj zistenie, že Európsky Dobrava-Belgrade hantavírus využíva ako bunkový receptor beta3 integríny podobne ako iné vysoko patogénne hantavírusy.

Hantaviruses are important human pathogens transmitted mainly by rodents and causing life-threating diseases; hemorrhagic fever with renal syndrome in Asia and Europe and hantavirus cardiopulmonary syndrome in America. Very recently, we have found first hantaviruses also in Africa. In frame of the EVA project, as well as through our long-term collaboration with the Charité – Universitätsmedizin in Berlin, we have been involved in several international studies resulting in

isolation and characterization of novel hantavirus pathogens and evaluation of their pathogenic relevance. Particularly important is isolation of the first African hantavirus, Sangassou virus, determination of its entry receptor, and identification of its strong interferon lambda-inducing capability. Equally important finding is that the European Dobrava-Belgrade virus uses beta3 integrins as an entry receptor _si t was shown for some other highly pathogenic hantaviruses.

Obr.: kontrola pascí počas výskumu hlodavcami prenášaných vírusov v Guinei, západná Afrika.
Fig.: Checking of the traps during a flied study focused on rodent-borne viruses in Guinea, West Africa.

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. 2012/ doplnky z r. 2011	B Počet v r. 2012/ doplnky z r. 2011	C Počet v r. 2012/ doplnky z r. 2011
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	**2 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	**1 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	**2 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	**4 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	**5 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných	**0 / 0**	**0 / 0**	**0 / 0**

textoch vydaných v domácich vydavateľstvách (BBB, ACD)			
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 v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, BDDB)	**41 / 1**	**0 / 0**	**0 / 0**
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**13 / 0**	**0 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	**19 / 0**	**0 / 0**	**0 / 0**
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	**0 / 0**	**0 / 0**	**0 / 0**
12. Vydané periodiká evidované v Current Contents	**1**	**0**	**0**
13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**0/0**	**0/0**	**0/0**
15. Vedecké práce uverejnené na internete (GHG)	**0 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**

Tabuľka 2f: ohlasy

OHLASY	**A** **Počet v r. 2011/ doplnky z r. 2010**	**B** **Počet v r. 2011/ doplnky z r. 2010**
Citácie vo WOS (1.1, 2.1)	1148 / 54	0 / 0
Citácie v SCOPUS (1.2, 2.2)	147 / 8	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	0 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	60 / 2	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g: vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	0
Prednášky a vývesky na domácich vedeckých podujatiach	0

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Vedeckí pracovníci ústavu mali v sledovanom období 7 (sedem) vyžiadaných prednášok na zahraničných konferenciách, nakoľko však vyšli aj publikačne, uvádzame ich v prílohe C tejto správy pod kategóriu AFE „Abstrakty pozvaných príspevkov zo zahraničných konferencií“.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

v sledovanom období žiadne

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

- **prof. MUDr. Fedor Čiampor, DrSc.**

Chrípka – prítomnosť a očkovanie.
Vzdelávací seminár: Spoločnosť GlaxoSmithKline Slovakia, s.r.o., Slovenská spoločnosť Všeobecného praktického lekárstva, Slovenská lekárska spoločnosť SSVPL SLS,
Sielnica, Hotel Kaskády, 8.-9. 6. 2012

Chrípka – história, prítomnosť a budúcnosť
„ Problémy očkovania 2012 – chrípka.
Slovenská spoločnosť všeobecného praktického lekárstva SLS
Slovenská komora sestier a pôrodných asistentiek.
11.9. – Prešov, 12.9.- Košice, 13.9. – Poprad, 18.9. – Trnava,
19.9. – Rimavská Sobota, 20.9. – Trenčín, 25.9.- Žilina, 26.9. – Nitra,
27.9. – Banská Bystrica, 2.10. - Bratislava

- **RNDr. Ivan Košík, PhD.**

Stabilita PB – 1 F2 proteínu a je vplyv na imunologické vlastnosti.
Prírodovedecká fakulta UK, Bratislava

Vírus chrípky: 80 rokov bádania a stále nás dokáže prekvapiť!?
Prírodovedecká fakulta UK, Bratislava
3.10.2012

- **RNDr. Kúdela,Otakar, CSc.**

Výskyt nových fytopatogénov na území SR pod vplyvom klimatických zmien a globalizácie v obchode.
In: Seminár - Nové hrozby v oblasti zdravia rastlín.
Nitra , Agroinštitút, 28.marec 2012

Ministerstvo pôdohospodárstva a rozvoja vidieka Slovenskej republiky

Výskyt virových a mikrobiálních fytopatogenú na území SR a jejich vliv na kvalitu a bezpečnost potravin rostlinného púvodu.
In: Odborný seminář - Pohled přes hranice- na téma "Péče o zdraví rostlin , předpoklad bezpečných potravin".
Dolní Dunajovice, 12. - 13. apríl 2012
Ministerstvo zemědělství ČR

Genetika rezistencie rastlín voči vírusovým chorobám
Katedre genetiky PF UK v Bratislave, 20 november 2012

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2012

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 1

Číslo PV: 2347649
Mená autorov: , RNDr. Jan Zavada, DrSc.
Názov vynálezu: Mn Gene and Protein
Majiteľ / spolumajiteľ: Virologický ústav SAV Bratislava

2.7.3. Predané licencie

v sledovanom období žiadne

2.7.4. Realizované patenty

v sledovanom období žiadne

2.8. Iné informácie k vedeckej činnosti

Virologický ústav si uvedomuje zložitosť financovania vedy, hlavne základného výskumu na Slovensku a preto sa snaží rozvíjať aktivity a programy smerujúce do podpory užšej spolupráce so súkromným sektorom, či už domácim alebo zahraničným, s cieľom urýchliť aplikovateľnosť vedeckých výsledkov do praxe.

Aby bolo možné vyššie uvedené ciele napĺňať, ústav sa zameriava na vybudovanie potrebnej infraštruktúry. V posledných rokoch bolo toto možné realizovať najmä vďaka projektom, kde sa podarilo vytvoriť veľmi dobré podmienky pre využívanie metód molekulárnej biológie, virológie, bunkovej biológie, imunológie atď. v rámci ústavu, SAV alebo kooperujúcich vysokých škôl v tomto združení. Ako naliehavá potreba sa javí udržať špecialistov, ktorí tieto unikátne prístroje obsluhujú.

Najmä vďaka čerpaniu zo štrukturálnych fondov EÚ sa ústav snaží zadovážiť v rámci Slovenskej republiky unikátne prístroje a zariadenia, ktoré nám umožnia držať krok so súčasnými modernými trendmi vo vede.

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 2012

Forma	Počet k 31.12.2012				Počet ukončených doktorantúr v r. 2012					
	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	2	19	0	6	1	4	0	0	0	0
Interná z iných zdrojov	3	1	0	0	0	1	0	0	0	0
Externá	0	3	0	0	0	0	0	1	0	0
Spolu	5	23	0	6	1	5	0	1	0	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 2012 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
Peter Ditte	IŠ hradené z prostriedkov SAV	9 / 2006	5 / 2012	4.2.3 molekulárna biológia	prof. RNDr. Jaromír Pastorek DrSc., VÚ SAV	Prírodovedecká fakulta UK
Gabriela F. Ramírez	IŠ hradené z prostriedkov SAV	9 / 2006	10 / 2012	4.2.7 mikrobiológia	Ing. Ľudovít Škultéty PhD., VÚ SAV	Prírodovedecká fakulta UK
Zuzana Halásová	IŠ hradené z prostriedkov SAV	9 / 2006	8 / 2012	4.2.13 virológia	RNDr. Marcela Kúdelová DrSc., VÚ SAV	Prírodovedecká fakulta UK

Jana Janulíková	IŠ hradené z prostriedkov SAV	9 / 2008	8 / 2012	4.2.13 virológia	RNDr. Eva Varečková DrSc., VÚ SAV	Prírodovedecká fakulta UK
Zuzana Staneková	IŠ hradené z prostriedko v SAV	9 / 2007	5 / 2012	4.2.13 virológia	RNDr. Eva Varečková DrSc., VÚ SAV	Prírodovedecká fakulta UK
Veronika Tóthová	IŠ hradené z prostriedkov SAV	9 / 2008	10 / 2012	4.2.3 molekulárna biológia	RNDr. Adriana Gibadulinová CSc., VÚ SAV	Prírodovedecká fakulta UK

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3d: zoznam akreditovaných študijných odborov

Názov študijného odboru (ŠO)	**Číslo ŠO**	**Doktorandské štúdium uskutočňované na:** (univerzita/vysoká škola a fakulta)
virológia	4.2.13	Prírodovedecká fakulta UK
virológia	4.2.13	Univerzita veterinárskeho lekárstva a farmácie v Košiciach
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, CSc. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (STU Bratislava)	
Ing. Miroslav Glasa, PhD. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (UK Bratislava)	
doc. RNDr. Peter Kabát, CSc. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (SZU Bratislava)	
RNDr. Elena Kocianová, DrSc. (mikrobiológia)	prof. RNDr. Jaromír Pastorek, DrSc. (SPU Nitra)	
MVDr. Juraj Kopáček, DrSc. (molekulárna cytológia)	prof. RNDr. Silvia Pastoreková, DrSc. (PF UK Bratislava)	
MVDr. Juraj Kopáček, DrSc. (molekulárna biológia)	prof. RNDr. Silvia Pastoreková, DrSc. (LF UK Bratislava)	
RNDr. František Kostolanský, CSc. (virológia)		
RNDr. Marcela Kúdelová, DrSc. (virológia)		
prof. RNDr. Jela Mistríková, DrSc. (virológia)		
prof. RNDr. Jaromír Pastorek, DrSc. (molekulárna biológia)		

prof. RNDr. Jaromír Pastorek, DrSc. (virológia)		
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)		
Ing. Rudolf Toman, DrSc. (mikrobiológia)		
RNDr. Eva Varečková, DrSc. (virológia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f: prednášky a cvičenia vedené v roku 2012

PEDAGOGICKÁ ČINNOSŤ	**Prednášky**		**Cvičenia a semináre**	
	doma	**v zahraničí**	**doma**	**v zahraničí**
Počet prednášateľov alebo vedúcich cvičení	11	0	3	0
Celkový počet hodín v r. 2012	98	0	48	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**	13
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	15
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	9
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	16
5.	**Počet oponovaných dizertačných a habilitačných prác**	5
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	3
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	2
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**	1

3.6. Iné dôležité informácie k pedagogickej činnosti

VÚ SAV má akreditované 4 študijné odbory doktorandského štúdia. V priebehu roka 2012 sa vo VÚ SAV celkom školilo 23 doktorandov denného štúdia z toho 6 novoprijatých. Dúfame, že vďaka možnosti ich financovania z prostriedkov SAV, bude tento trend aj v budúcnosti pokračovať a počty doktorandov na ústave budú stabilizované respektíve nebudú klesať.

V roku 2012 úspešne obhájili doktorandskú dizertačnú prácu piati doktorandi a štyria z nich sa stali zamestnancami VÚ SAV s pracovnými zmluvami uzatvorenými na dobu určitú.

Doktorandi sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Oceniť treba najmä ich aktivity počas akcie s názvom "Noc výskumníkov".

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré VÚ SAV organizoval v roku 2012

(alebo sa na ich organizácii podieľal, s vyhodnotením vedeckého a spoločenského prínosu podujatia)

- **Konferencia konzorcia METOXIA**

Bratislava, 11.06.-15.06.2012, 40 účastníkov
Výročná konferencia partnerov konzorcia 7. RP EU s cieľom zhodnotiť aktivity projektu v polovici riešiteľského obdobia.

- **Výročná konferencia Patobiologickej skupiny EORTC**

Smolenice, 21.06.-24.06.2012, 50 účastníkov
Pravidelná konferencia členov PBG Európskej organizácie pre výskum a liečbu rakoviny.

- **Tréningový kurz projektu EngCaBra: Základy bunkovej biológie**

Bratislava - VÚ SAV, 24.09.2012, 10 účastníkov
Kurz bol organizovaný pre mladých vedeckých pracovníkov z rôznych krajín EU pôsobiacich v projekte 7RP EngCaBra s cieľom oboznámiť ich s modernými metódami a modelmi bunkovej biológie, ako napr. kultivácia buniek v 3D sferoidoch, meranie bunkových parametraov v reálnom čase, prietoková cytometria, konfokálna mikroskopia a i.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada VÚ SAV v roku 2013

III. Labudove dni - IIIth Labuda´s Days
VÚSAV Bratislava, 24.04.-25.04.2013
100 účastníkov, organizátor – RNDr.Elena Kocianová, DrSc.,
02/ 59302 430, virukoc@savba.sk

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a: programové a organizačné výbory medzinárodných konferencií

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

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

- **Mgr. Martin Benej**
  European Association of Cancer Research - člen

- **RNDr. Tatiana Betáková, CSc.**
  AAAS (Advancing science, serving society - člen
  American Society For Microbiology - člen
  Československá spoločnosť mikrobiologická – člen

- **prof. MUDr. Fedor Čiampor, DrSc.**
  Československá biologická spoločnosť AVČR - podpredseda
  Československá mikrobiologická spoločnosť - člen
  Československá mikroskopická spoločnosť AVČR - člen

- **Ing. Miroslav Glasa, PhD.**
  American Phytopathological Society - člen

- **RNDr. Boris Klempa, PhD.**
  Československá mikrobiologická spoločnosť - člen
  European Network for Diagnostics of "Imported" Viral Diseases (ENIVD) - menovaný reprezentant SR
  Gesellschaft für Virologie - člen

- **RNDr. Juraj Koči, PhD.**
  Československá mikrobiologická spoločnosť - člen

- **RNDr. František Kostolanský, CSc.**
  Československá spoločnosť mikrobilogická - člen
  European Society for Clinical Virology – člen

- **RNDr. Ivan Košík, PhD.**
  Československá mikrobiologická spoločnosť - člen

- **RNDr. Marcela Kúdelová, DrSc.**
  Československá mikrobiologická spoločnosť - člen

- **prof. RNDr. Jela Mistríková, DrSc.**
  Československá mikrobiologická spoločnosť - člen

- **prof. RNDr. Jaromír Pastorek, DrSc.**
  Európska akadémia vied a umení - menovaný člen

- **prof. RNDr. Silvia Pastoreková, DrSc.**
  European Organization for Research and Treatment of Cancer Receptor and Biomarker Group - menovaný člen

Európska molekulárno-biologická konferencia - menovaný reprezentant SR

- **RNDr. Gustáv Russ, DrSc.**
  Československá mikrobiologická spoločnosť – člen výboru

- **RNDr. Zuzana Sekeyová, CSc.**
  Československá mikrobiologická spoločnosť - člen
  European Society of Clinical Microbiology and Infectious Diseases (ESCMID) - člen

- **Mgr. Eva Špitalská, PhD.**
  Československá mikrobiologická spoločnosť - člen

- **Ing. Rudolf Toman, DrSc.**
  EU´ s R&D Expert Group on Countering the Effects of Biological and Chemical Terrorism, Brusel - člen
  European Working Group on Rickettsiae, Coxiella and Ehrlichiae - člen výboru
  International Endotoxin Society - člen
  United Nations Industrial Development Organisation (UNIDO), Viedeň - expert pre organickú chémiu a biochémiu
  Chemical Industries Branch - konzultant

- **RNDr. Eva Varečková, DrSc.**
  Československá mikrobiologická spoločnosť – člen
  European Society for Clinical Virology - 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
Čiampor Fedor	APVV, MVTS- predseda,	70
Pastoreková Silvia	"Alessandro Liberati Programme for Young Investigators – Call 2012" of the Emilia-Romagna Regional Health Authority and the regional Universities	2
	The Icelandic Research Fund	1
Špitalská Eva	IGA	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.
Bazilej, Švajčiarsko, 03/12
Pravidelné stretnutie konzorcia EngCaBra, aktualizácia doiahnutých výsledkov a konkretizácia spolupráce s partnermi konzorcia na druhý rok riešenia projektu.

Bilbao, Španielsko, 04/12
Prezentácia výsledkov Oddelenia molekulárnej medicíny na medzinárodnej konferencii konzorcia HypoxiaNet, nadviazanie nových vedeckých spoluprác s členmi konzorcia.

Kodaň, Dánsko, 09/12
Pozvaná prednáška na konferencii o nádorovom metabolizme, stretnutie s vrcholnými odborníkmi v tejto oblasti a nadviazanie nových vedeckých kontaktov, na ich základe pozvanie prispieť publikáciou do pripravovanej série odborných článkov na túto tému.

Ing. Miroslav Glasa, PhD.
RNDr. Otakar Kúdela, CsC.
Lednice, Česká republika, 14.-15.5.2012
Finálne pracovné stretnutie členov konzorcia „7 RP SharCo“, sumarizácia dosiahnutých výsledkov v oblasti epidemiológie vírusu šarky slivky.

Ing. Miroslav Glasa, PhD.
Mgr. Lukáš Predajňa
Ljubljana, Slovinsko, 3.-5.9.2012
Pracovné stretnutie členov projektu COST0806, predstavenie dosiahnutých výsledkov v oblasti netransgénnej ochrany rastlín voči vírusovej infekcii, diskusia k prípadnému vytvoreniu konzorcia pre FP7 výzvu.

I**ng. Miroslav Glasa, PhD.**
RNDr. Zdeno Šubr, CSc.
Budapešť, Maďarsko, 15.11.2012
Pracovné stretnutie projektu HUSK/0901/1.2.1/0126, informácia a diskusia k dosiahnutým výsledkom projektu týkajúcich sa kontroly vírusových ochorení kôstkovín, vytýčenie strategických zámerov na nasledujúce obdobie.

RNDr. Zuzana Sekeyová, PhD.
Marseille, Francúzsko , 09. – 21. septembra 2012
Vedecké pracovné stretnutie v Universite Mediterrané, cesta súvisela s aktivitami spojenými s vedeckou spoluprácou v rámci medzinárodného projektu PICS (2012-2014), kde boli pripravené aj podklady na ďalší projekt, ktorý bol podaný na posúdenie v rámci novej výzvy PICS (na roky 2013-2014) o spolupráci medzi CNRS a SAS.

RNDr. Eva Varečková, DrSc.
RNDr. František Kostolanský, CSc.
RNDr. Ivan Košík, PhD.
RNDr. Zuzana Staneková, PhD.
Mgr. Jan Janulíková, PhD.
Paríž, Francúzsko, 11.3.2012-14.3.2012
Pracovné stretnutie riešiteľov EU grantu v rámci 7RP: FLUPHARM v Institute Pasteur v Paríži (Fr). Pracovný program zahŕňal prezentácie jednotlivých účastníkov projektu z jednotlivých pracovísk, vrátane VÚ SAV, celkové hodnotenie postupu prác na projekte a plán ďalšieho rozvrhnutia úloh a prerozdelenia financií jednotlivých participantov konzorcia.

RNDr. Boris Klempa, PhD.
Nemecko, Berlín
Pravidelné pracovné stretnutia v rámci dlhodobej spolupráce na riešení projektov EVA a APVV-0267-10.
Testovanie biologických vzoriek z hlodavcov a hmyzožravcov za účelom detekcie nových hantavírusov, charakterizácia nových vírusových izolátov za účelom ich vloženia do Európskeho vírusového archívu.

Mgr. Martin Benej
Neapol, Taliansko, 15.3-29.4.2012
Zahraničný pobyt za účelom zaškolenia do techniky 2D diferenciálnej gélovej elektroforézy (2D-DIGE) a jej zavedenia vo VÚ SAV.

Glasgow, Škótsko, 8.-12.7.2012
Účasť na konferencii EuPA/BSPR Proteomics Meeting s podtitulom "New Horizons and Appications for Proteomics" za účelom rozšírenia obzorov v aktuálnom stave proteomiky a jej možných aplikáciách na našom pracovisku.

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

Od svojho založenia sa VÚ SAV zameriava najmä na riešenie principiálnych otázok a problémov virológie. 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.

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.

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 Bratislava
Druh spolupráce (spoločné pracovisko alebo iné): pedagogická činnosť
Začiatok spolupráce: 2008
Zameranie: prednášky pre PhD študentov
Zhodnotenie: pracovníci VÚ SAV sa zapájajú do pedagogického procesu vedením diplomových prác a formou prednášok pre PhD študentov

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK Bratislava
Druh spolupráce (spoločné pracovisko alebo iné): spoločné projekty VEGA
Začiatok spolupráce: 1989
Zameranie: spoločný zber a spracovanie biologického materiálu (napr. kliešte, rezervoárové zvieratá), spoločné publikácie a príspevky na konferenciach
Zhodnotenie: obojstranne výhodná spolupráca s Epidemiologickým ústavom LFUK v Bratislave

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK Bratislava
Druh spolupráce (spoločné pracovisko alebo iné): vo 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 Bratislava
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

v sledovanom období žiadne

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

v sledovanom období žiadne

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: BioScience Slovakia, s.r.o.
Zameranie: priemyselný výskum v klinickej diagnostike infekčných patogénov" a "Centrum pre inovačný výskum protinádorových a protivírusových stratégií"
Rok založenia: 2012
Zhodnotenie: spoločné pracovisko v rámci projektov ŠF financovaných z ERDF

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

v sledovanom období žiadne

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Laboratórium diagnostiky a prevencie rickettsiových a chlamýdiových nákaz, sa v rámci vedecko-technickej spolupráce vyvíjajú a pripravujú diagnostické prípravky pre jednoduchú, rýchlu a spoľahlivú diagnostiku ochorení rickettsiového a chlamýdiového pôvodu. Najmä v oblasti diagnostiky Q horúčky je k dispozícii celá paleta diagnostických prípravkov umožňujúca širokú škálu sérologických vyšetrení na špičkovej úrovni. Pre potreby praxe sa vyvíjajú aj prípravky na diagnostiku iných rickettsiových nákaz zo skupiny ochorení týfusového pôvodu. Osobitný význam má vývoj/produkcia diagnostických prípravkov pre diagnostiku chlamýdiových infekcií vzhľadom na ich hojný výskyt u nás a vo svete. Laboratórium poskytuje vzorky diagnostických prípravkov, poradenskú a technickú pomoc.

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. **Čiampor**, DrSc.	Global Forum for Health Research	člen
	Rada APVV pre MVTS a do 7RP	Predseda
	Interacademy Medical Panel	člen
MVDr. **Kopáček**, DrSc.	Národná odborná vedecká skupina, Európsky úrad pre bezpečnosť potravín (EFSA)	člen
RNDr. **Košovský,** CSc.	Slovenský výbor pre bioetiku pre UNESCO pri Ministerstve zahraničných vecí SR	člen

RNDr. **Kúdela**, CSc.	Slovenská národná akreditačná služba	expert
	Národné vedecké skupiny EFSA	člen
RNDr. **Kúdelová**, DrSc.	Slovenská národná akreditačná služba	posudzovateľ
	Slovenská národná akreditačná služba	expert
prof. RNDr. **Pastorek**, DrSc.	Komisia pre obhajoby doktorských dizertačných prác	predseda
	Rada vlády pre znalostnú spoločnosť	člen
prof. RNDr. **Pastoreková**, DrSc.	Slovenská komisia pre vedecké hodnosti	podpredseda
	Pracovná skupina pre prioritné oblasti aplikovaného výskumu a experimen-tálneho vývoja - biomedicínu a biotechnológie, MŠ VVŠ SR	člen
Ing. **Toman**, DrSc.	Európska sieť prevencie kriminality	zástupca SR
	Národná sieť prevencie kriminality	Zástupca SAV
RNDr. **Zelník**, CSc.	Správa štátnych hmotných rezerv	odborný garant projektu

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

Názov expertízy: Expertíza pre Slovenskú národnú akreditačnú službu (SNAS)
Adresát expertízy: SNAS
Spracoval: RNDr. Marcela Kúdelová, DrSc.
Stručný opis: vypracovenie 10-tich správ o posúdení činností laboratórií v SR v procese reakredidácie, rozšírenia akreditovaných činností a v dohľade výkonu akreditovaných činností -

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

v sledovanom období žiadne

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

v sledovanom období žiadne

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov VÚ SAV

Tabuľka 9a: vedecko-popularizačná činnosť pracovníkov VÚ SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Glasa, PhD.	Šubr	TL	Vírusy ovocných drevín a možnosti ich detekcie	Sady a Vinice	2012
RNDr. Klempa Boris, PhD RNDr. Havlíková, PhD. RNDr. Martina Ličková	Derdáková, Peťko, Tarageľová	TV	Živí proti živým Spektrum vedy	STV2	30.10.2012
RNDr. Ivan Košík, PhD.		PB	Prednáška: Oživenie španielskej chrípky	Bratislava	2012
RNDr. Ivan Košík, PhD.	Haraj	RO	hosťovanie v diskusnej relácii Nočná pyramída	Bratislava	2012
RNDr. Ivan Košík, PhD.	Haraj	RO	interview pri príležitosti udeľovania Nobelovej ceny za Beta adrenergné receptory	Bratislava	2012
RNDr. Ivan Košík, PhD.	Haraj	RO	reportáž z laboratória	Bratislava	2012
RNDr. Ivan Košík, PhD.	Staneková, Kotlárová, Praznovská, Janulíková, Dugovičová, Hollý, Russ, Kostolanský, Varečková	iné	Noc výskumníka	Bratislava	28.9.2012
prof. RNDr. Pastoreková, DrSc.		TL	Objav našich vedcov pomáha liečiť onkologických pacientov	Plus 1 deň	24.8.2012
prof. RNDr. Pastoreková, DrSc.		TV	Rozhovor k Noci výskumníkov	TA3	26.9.2012
prof. RNDr. Pastoreková, DrSc.	organizátori Noci výkumníkov a realizačný štáb videofilmov	iné	Osobnosti slovenskej vedy -video	Noc výskumníkov	26.9.2012
prof. RNDr. Pastoreková, DrSc.	Redaktor Juraj Červenka - rozhovor J.Pastorekom a S. Pastorekovou	TL	Ich patent využíva celý svet	Nový čas nedeľa	2012
RNDr. Zdeno Šubr, CSc.		TL	Interview "Slivkové kiahne"	týždenník Život	26.5.2012
RNDr. Zdeno Šubr, CSc.	Glasa	TL	článok "Vírusy ovocných drevín a možnosti ich detekcie"	mesačník Sady a vinice	2012
RNDr. Martina Takáčová, PhD.		iné	Nov výskumníkov 2012	Stará tržnica	28.9.2012
RNDr. Eva Varečková, DrSc.	Russ, Janulíková, Košík	RO	relácia Dobrý deň Slovensko	STVR	12.1.2012
prof. MUDr. Fedor Čiampor, DrSc.		TL	Besnota zničí rakovinu.	Plus 1 deň, 7, 55,19	1

prof. MUDr. Fedor Čiampor, DrSc.		TL	Chrípka - minulosť a prítomnosť	Vesmír 91, (142) č 1, str. 18-21, 2012	1
RNDr. Ivan Košík, PhD.	Háraj	RO	reportáž z laboratória	Bratislava	1
RNDr. Martina Labudová, PhD.	Zaťovičová, Takáčová	PB	Noc výskumníkov 2012	Stará tržnica Bratislava	1

[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	1	tlač	7	TV	5
rozhlas	4	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	1
iné	3				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c: vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Konferencia konzorcia METOXIA	medzinárodná	Bratislava	11.06.-15.06.2012	40
Výročná konferencia Patobiologickej skupiny EORTC	medzinárodná	Smolenice	21.06.-24.06.2012	50
Tréningový kurz projektu EngCaBra: Základy bunkovej biológie	medzinárodná	Bratislava,	24.09.-24.09.2012	10

9.3. Účasť na výstavách

Názov výstavy: Festival vedy, **Noc výskumníkov 2012**
Miesto konania: Avion Shopping Park Bratislava, Stará Tržnica Bratislava
Dátum: 28.9.2012
Zhodnotenie účasti:

1. pracovníci Oddelenia výskumu ortomyxovírusov pútavou formou predstavili vírus chrípky pre širokú laickú verejnosť

2. pracovníci oddelenia molekulárnej medicíny pútavou formou laickej verejnosti predstavili proteín karbonickej anhydrázy a jeho úlohu v nádoroch, ako aj vírus lymfocytárnej choriomeningitídy z čeľade arenavírusov

Názov výstavy: **Agrokomplex 2012**
Miesto konania: Nitra, Výstavisko Agrokomplex
Dátum: 23.- 26.8.2012
Zhodnotenie účasti: pracovníci Oddelenia rastlinnej virológie formou prezentácie, posterov a dokumentačných materiálov predstavili aplikačné výstupy svojho výskumu „Vývoj postupov na detekciu a charakterizáciu závažných vírusových patogénov ovocných drevín a viniča“ pre odbornú a laickú verejnosť.

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	0	0

9.5. Členstvo v redakčných radách časopisov

- **RNDr. Tatiana Betáková, CSc.**
  The Open Journal of Virology (ISSN: 1874-3579)

- **prof. MUDr. Fedor Čiampor, DrSc.**
  Acta virologica
  Bulletin Československej spoločnosti mikrobiologickej
  Communicative and Integrative Biology
  Folia medica
  Voprosy virusologii

- **Ing. Miroslav Glasa, PhD.**
  Záhradkár

- **prof. RNDr. Jaromír Pastorek, DrSc.**
  Acta virologica

- **prof. RNDr. Silvia Pastoreková, DrSc.**
  Frontiers in Molecular and Cellular Oncology
  Journal of Enzyme Inhibition and Medicinal Chemistry
  Journal of Enzyme Inhibition and Medicinal Chemistry

- **RNDr. Gustáv Russ, DrSc.**
  Acta virologica - hlavný redaktor

- **RNDr. Vladimír Zelník, CSc.**
  Acta Virologica

9.6. Činnosť v domácich vedeckých spoločnostiach

- **Mgr. Pavlína Bartíková, PhD.**
  Slovenská parazitologická spoločnosť pri SAV - člen

- **Mgr. Martin Benej**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen

- **Mgr. Petra Bullová**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen

- **prof. MUDr. Fedor Čiampor, DrSc.**
  Slovenská akademická spoločnosť - člen hlavného výboru

- **Ing. Miroslav Glasa, PhD.**
  Slovenská rastlinolekárska spoločnosť - člen

- **RNDr. Sabína Havlíková, PhD.**
  Slovenská parazitologická spoločnosť pri SAV - člen

- **RNDr. Elena Kocianová, DrSc.**
  Slovenská parazitologická spoločnosť - člen predsedníctva

- **MVDr. Juraj Kopáček, DrSc.**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen

- **RNDr. Otakar Kúdela, CSc.**
  Slovenská rastlinolekárska spoločnosť - podpredseda

- **RNDr. Marcela Kúdelová, DrSc.**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen

- **RNDr. Monika Lahová, PhD.**
  Slovenská parazitologická spoločnosť - člen

- **prof. RNDr. Jela Mistríková, DrSc.**
  Slovenská imunologická spoločnosť - člen

- **prof. RNDr. Jaromír Pastorek, DrSc.**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen
  Učená spoločnosť SAV - člen

- **prof. RNDr. Silvia Pastoreková, DrSc.**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen
  Učená spoločnosť SAV - člen

- **RNDr. Zuzana Sekeyová, CSc.**
  Slovenská parazitologická spoločnosť - člen

- **Mgr. Eva Špitalská, PhD.**
  Slovenská parazitologická spoločnosť pri SAV - člen

- **Mgr. Iveta Štibrániová, PhD.**
  Slovenská parazitologická spoločnosť pri SAV - člen

- **RNDr. Veronika Tóthová, PhD.**
  Slovenská spoločnosť pre biochémiu a molekulárnu biológiu - člen

- **RNDr. Eva Varečková, DrSc.**
  Slovenská biochemická spoločnosť - člen

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

V rámci svojej vedeckej činnosti viacerí pracovníci ústavu absolvovali množstvo krátkych rozhovorov a vstupov pre STV a SR neevidované a neuvádzané v tejto VS , pričom sa väčšinou jednalo o ich odborné stanoviská k aktuálnym medicínsko - virologickým problémom.

V roku 2012 začal plánovať a v marci roku 2013 ústav organizuje Konferenciu s predstaviteľmi EMBL na podporu vstupu SR do EMBL.
Cieľom konferencie je predstaviť zástupcov EMBL našej vedeckej komunite v oblasti živých vied, umožniť im prezentáciu fungovania EMBL po organizačnej aj vedeckej stránke a viesť diskusiu o výhodách členstva SR pre rozvoj nášho vedeckého výskumu v molekulárnej biológii a biomedicíne. Hlavným organizátorom akcie je prof. Pastoreková.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a : knižničný fond

Knižničné jednotky spolu		36 009
z toho	knihy a zviazané periodiká	36 009
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		10
z toho zahraničné periodiká		8
Ročný prírastok knižničných jednotiek		43
v tom	kúpou	7
	darom	33
	výmenou	3
	bezodplatným prevodom	0

Úbytky knižničných jednotiek	1
Knižničné jednotky spracované automatizovane	36 009

10.2. Výpožičky a služby

Tabuľka 10b: výpožičky a služby

Výpožičky spolu		589
z toho	odborná literatúra pre dospelých	69
	výpožičky periodík	158
	prezenčné výpožičky	954
MVS iným knižniciam		20
MVS z iných knižníc		25
MMVS iným knižniciam		0
MMVS z iných knižníc		1
Počet vypracovaných bibliografií		2
Počet vypracovaných rešerší		38

10.3. Používatelia

Tabuľka 10c: užívatelia

Registrovaní používatelia	87
Návštevníci knižnice spolu (bez návštevníkov podujatí)	1251

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 €	5 589

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
- rešeršné 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

v sledovanom období žiadne

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

- **prof. RNDr. Jaromír Pastorek, DrSc.**
  predseda 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

- **Ing. Ľudovít Škultéty, PhD.**
  VK SAV pre chemické vedy - člen

11.4. Členstvo v komisiách SAV

- **prof. MUDr. Fedor Čiampor, DrSc.**
  Dislokačná komisia SAV - člen
  Etická komisia SAV - člen
  Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu - člen

- **RNDr. Ján Košovský, CSc.**
  Komisia SAV pre životné prostredie - člen

- **prof. RNDr. Silvia Pastoreková, DrSc.**
  Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov SAV - podpredseda

11.5. Členstvo v orgánoch VEGA

- **RNDr. Tatiana Betáková, CSc.**
  Komisia VEGA pre lekárske a farmaceutické vedy - člen

- **Ing. Miroslav Glasa, PhD.**
  Komisia VEGA pre pôdohospodárske, veterinárske a drevárske vedy - člen

- **MVDr. Juraj Kopáček, DrSc.**
  komisia VEGA pre biologické vedy - člen

- **prof. RNDr. Jela Mistríková, DrSc.**
  Komisia VEGA pre lekárske a farmaceutické vedy - člen

- **Ing. Ľudovít Škultéty, PhD.**
  komisia VEGA pre chemické vedy - člen

- **RNDr. Zdeno Šubr, CSc.**
  Komisia VEGA pre pôdohospodárske, veterinárske a drevárske vedy - člen

12. Hospodárenie organizácie

12.1. Výdavky VÚ SAV ako RO SAV

Tabuľka 12a: výdavky VÚ SAV ako RO SAV (v €)

Kategória	**Posledný upravený rozpočet r. 2012**	**Čerpanie k 31.12.2012 celkom**	**z toho:**	
			z rozpočtu	**z mimoroz. zdrojov**
Výdavky spolu	3 083 218,49	4 277 648,59	3 083 218,49	1 194 430,10
z toho:				
- kapitálové výdavky	1 096 973,02	1 428 659,65	1 096 973,02	331 686,63
- bežné výdavky	1 986 245,47	2 848 988,94	1 986 245,47	862 743,47
z toho:				
- mzdové výdavky	972 702,45	1 154 928,10	972 702,45	182 225,65
odvody do poisťovní a NÚP	332 616,66	392 394,06	332 616,66	59 777,40
- tovary a ďalšie služby	680 926,36	1 301 666,78	680 926,36	620 740,42
z toho:				
výdavky na projekty (VEGA, APVV, ŠPVV, MVTP, ESF)	514 356,36	1 135 096,78	514 356,36	620 740,42
výdavky na periodickú tlač	8 339,00	8 339,00	8 339,00	
transfery na vedeckú výchovu	158 231,00	158 231,00	158 231,00	

12.2. Príjmy VÚ SAV ako RO SAV

Tabuľka 12b: príjmy VÚ SAV ako RO SAV (v €)

Kategória	**Posledný upravený rozpočet r. 2012**	**Plnenie k 31.12.2012**
Príjmy spolu:	1 204 570,10	1 204 570,10
z toho:		
rozpočtované príjmy (účet 19)	10 140,00	10 140,00
z toho:		
- príjmy za nájomné	10 090,71	10 090,71
mimorozpočtové príjmy (účet 780)	1 194 430,10	1 194 430,10

13. Nadácie a fondy pri organizácii SAV

Názov: Nadácia akademika Blaškoviča
Zameranie: veda - výskum
Opis: **Nadácia akademika Blaškoviča v hodnotenom období likvidáciou zanikla.**

14. Iné významné činnosti organizácie SAV

V roku 2012 sa Virologický ústav SAV stal členom Global Outbreak Alert and Response network, ktorá pracuje pod záštitou Svetovej zdravotníckej organizácie (WHO).

VÚ SAV je:

- jedným zo zakladajúcich členov Molekulárno-medicínskeho centra (MMC) a jeho pracovníci sa podieľajú na aktivitách centra, ako špecializovanej rozpočtovej organizácie SAV
- sídlom redakcie medzinárodného časopisu Acta virologica evidovaného v Current Contens
- akreditovaným pracoviskom pre doktorandské štúdium v odbore virológia, mikrobiológia, molekulárna biológia a onkológia
- 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

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 VÚ SAV v roku 2012

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

- **prof. MUDr. Čiampor Fedor, DrSc.**

Zlatá medaila SAV

Oceňovateľ: Slovenská akadémia vied

- Cena bola udelená za celoživotnú vedeckú prácu pri príležitosti životného jubilea.

- **Ing. Ditte Peter, PhD.**

Súťaž mladých vedeckých pracovníkov SAV do 35 rokov – I. miesto za II. oddelenie vied SAV

Oceňovateľ: Slovenská akadémia vied

- **MVDr. Kopáček Juraj, DrSc.**

Cena SAV

Oceňovateľ: Slovenská Akadémia Vied

- Cena bola odelená kolektívu autorov v zložení: doc. Ing. Oľga Križanová, DrSc.,RNDr. Lucia Csaderová, PhD., RNDr. Soňa Hudecová, CSc., MVDr. Juraj Kopáček, DrSc., RNDr. Richard Kvetňanský, DrSc. Mgr. Ľubomíra Lenčešová, PhD., RNDr. Karol Ondriáš, DrSc. prof. RNDr. Silvia Pastoreková,DrSc., Ing. Zdena Sulová, CSc., Marta Šírová za súbor vedecko-výskumných prác zaoberajúcich sa moduláciou vybraných metabolických dráh regulovaných vápnikom v nádorových bunkách.

- **Mgr. Lapošová Katarína**

Cena nadácie BioEcoGen

Oceňovateľ: Ústav biochémie a genetiky živočíchov SAV

- Cena bola udelená v súťaži doktorandov, odbor Fyziológia a všeobecná biológia, Siedme Ivanské dni mladých biológov.

- **prof. RNDr. Pastoreková Silvia**, **DrSc.**

Cena SAV

Oceňovateľ: Slovenská Akadémia Vied

- Cena bola udelená kolektívu autorov v zložení: doc. Ing. Oľga Križanová, DrSc.,RNDr. Lucia Csaderová, PhD., RNDr. Soňa Hudecová, CSc., MVDr. Juraj Kopáček, DrSc., RNDr. Richard Kvetňanský, DrSc. Mgr. Ľubomíra Lenčešová, PhD., RNDr. Karol Ondriáš, DrSc. prof. RNDr. Silvia Pastoreková,DrSc., Ing. Zdena Sulová, CSc., Marta Šírová za súbor vedecko-výskumných prác zaoberajúcich sa moduláciou vybraných metabolických dráh regulovaných vápnikom v nádorových bunkách.

15.1.2. Iné domáce ocenenia

- **Ing,. Ditte Peter, PhD.**

Ocenenie prezidenta SR za výskum karbonickej anhydrázy v nádoroch onkologických pacientov
Oceňovateľ: prezident SR

- **Mgr. Lapošová Katarína**

1. miesto v sekcii Internej medicíny IV. Medzinárodného kongresu študentov medicíny
Oceňovateľ: Lekárska fakulta UPJŠ, Košice

15.2. Medzinárodné ocenenia

- **RNDr. Klempa Boris, PhD.**

The Visegrad Group Academies' Young Resarcher Award 2012
Oceňovateľ: Česká, Maďarská, Poľská a Slovenská akadémia vied

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

V sledovanom období roka 2012 sa na VÚ SAV neobrátila žiadna fyzická ani právnická osoba so žiadosťou o poskytnutie informácií v súlade so Zákonom o slobode informácií.

17. Problémy a podnety pre činnosť SAV

Problémy pracoviska:
Hlavné problémy súvisia s enormnou administratívnou záťažou súvisiacou s riešením najmä projektov ŠF. Toto spôsobuje problémy s dodržiavaním jednotlivých aktivít naplánovaných v projektoch. Pracovníci Virologického ústavu vynakladajú mimoriadnu snahu , aby bolo možné projekty riešiť v rámci schválených harmonogramov.

Podnety pre činnosť SAV:
Predsedníctvo SAV vo svojom programovom vyhlásení, ktoré bolo schválené Snemom SAV, vypracovalo stratégiu svojej činnosti na terajšie funkčné obdobie. Pri dodržiavaní programového vyhlásenia nepovažujeme za nutné podávať ďalšie podnety pre činnosť SAV.

Správu o činnosti organizácie SAV spracoval(i):

JUDr. Iveta Šárniková, 02/ 59302 400
RNDr. Tatiana Betáková,CSc., 02/59302 440
Mgr. Eva Kastel, 02/ 59302 414

MVDr. Juraj **Kopáček,** DrSc.
riaditeľ ústavu

Výročná správa bola prerokovaná vo Vedeckej rade VÚ SAV dňa 19.01.2012
Ing. Mirosla **Glasa,** PhD.
predseda VR VÚ SAV

Príloha A

Zoznam zamestnancov a doktorandov VÚ SAV k 31.12.2012

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

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	prof. MUDr. Fedor Čiampor, DrSc.	40	0.40
2.	RNDr. Elena Kocianová, DrSc.	100	1.00
3.	MVDr. Juraj Kopáček, DrSc.	100	1.00
4.	RNDr. Marcela Kúdelová, DrSc.	100	1.00
5.	Prof. RNDr. Jela Mistríková, DrSc.	40	0.40
6.	prof. RNDr. Jaromír Pastorek, DrSc.	50	0.50
7.	prof. RNDr. Silvia Pastoreková, DrSc.	100	1.00
8.	RNDr. Gustáv Russ, DrSc.	50	0.50
9.	Ing. Rudolf Toman, DrSc.	50	0.50
10.	RNDr. Eva Varečková, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	RNDr. Monika Baráthová, PhD.	72	0.00
2.	Mgr. Pavlína Bartíková, PhD.	24	0.24
3.	RNDr. Tatiana Betáková, CSc.	100	1.00
4.	RNDr. Adriana Gibadulinová, CSc.	100	1.00
5.	Ing. Miroslav Glasa, PhD.	100	1.00
6.	doc. RNDr. Peter Kabát, CSc.	42	0.42
7.	RNDr. Boris Klempa, PhD.	100	1.00
8.	RNDr. František Kostolanský, CSc.	100	1.00
9.	RNDr. Ján Košovský, CSc.	40	0.40
10.	RNDr. Otakar Kúdela, CSc.	100	1.00
11.	RNDr. Tatiana Mikušková, PhD.	100	0.00
12.	RNDr. Vojtech Mucha, CSc.	16	0.18
13.	Ing. Slavomíra Nováková, PhD.	100	1.00
14.	Mgr. Marco Quevedo Diaz, PhD.	100	1.00
15.	RNDr. Ingeborg Režuchová, PhD.	100	1.00
16.	RNDr. Zuzana Sekeyová, CSc.	100	1.00
17.	Ing. Ľudovít Škultéty, PhD.	100	1.00
18.	Mgr. Eva Špitalská, PhD.	100	1.00
19.	Mgr. Iveta Štibrániová, PhD.	100	1.00

20.	RNDr. Zdeno Šubr, CSc.	100	1.00
21.	Mgr. Eliška Švastová, PhD.	100	1.00
22.	RNDr. Miriam Zaťovičová, CSc.	100	1.00
23.	RNDr. Vladimír Zelník, CSc.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Mária Bartošová, PhD.	100	1.00
2.	RNDr. Slávka Bekešová, PhD.	100	1.00
3.	RNDr. Petra Belvončíková, PhD.	100	0.00
4.	RNDr. Lucia Csáderová, PhD.	26	0.26
5.	Ing. Peter Ditte, PhD.	100	1.00
6.	Mgr. Gabriela Flores-Ramírez, PhD.	100	1.00
7.	PharmDr. Terézia Goliašová, PhD.	100	0.00
8.	RNDr. Zuzana Halásová, PhD.	100	1.00
9.	RNDr. Sabína Havlíková, PhD.	100	1.00
10.	Mgr. Alžbeta Hulíková, PhD.	100	0.00
11.	RNDr. Filippo Iuliano, PhD.	100	1.00
12.	Mgr. Jana Janulíková, PhD.	100	0.33
13.	RNDr. Juraj Koči, PhD.	100	0.00
14.	RNDr. Kamila Koči, PhD.	100	0.00
15.	RNDr. Ivan Košík, PhD.	100	1.00
16.	RNDr. Martina Labudová, PhD.	100	1.00
17.	RNDr. Monika Lahová, PhD.	100	1.00
18.	Mgr. Katarína Polčicová, PhD.	100	0.00
19.	RNDr. Zuzana Staneková, PhD.	100	1.00
20.	RNDr. Lucia Škvarková, PhD.	100	0.50
21.	Mgr. Katarína Štefanidesová, PhD.	100	0.00
22.	RNDr. Martina Takáčová, PhD.	100	1.00
23.	Ing. Jana Tomášková, PhD.	100	1.00
24.	RNDr. Veronika Tóthová, PhD.	100	0.33
25.	Ing. Pavol Vadovič, 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. Eva Boldišová	100	0.50
4.	RNDr. Lenka Jelenská	100	0.00

5.	Mgr. Eva Kastel	100	1.00
6.	Mgr. Lucia Kotlárová	100	1.00
7.	Mgr. Hana Krasoňová	100	1.00
8.	Ing. Marcela Krasulová	100	1.00
9.	Ing. Stela Laušová	100	1.00
10.	RNDr. Martina Ličková	100	1.00
11.	RNDr. Ľubomíra Lukáčiková	1	0.33
12.	Mgr. Joanna Agnieszka Obacz	100	1.00
13.	RNDr. Ingrid Ovečková	100	1.00
14.	Ing. Katarína Palkovičová	100	1.00
15.	Mgr. Peter Pančík	100	0.33
16.	Mgr. Lukáš Predajňa	100	0.33
17.	Ing. Ľubica Predajňová	100	1.00
18.	Mgr. Peter Radvák	100	0.33
19.	RNDr. Oľga Sedláková	100	1.00
20.	Ing. Darina Svetlíková	100	1.00
21.	JUDr. Iveta Šárniková	100	1.00
22.	RNDr. Katarína Trnková	100	0.50
23.	Mgr. Ivana Vidličková	20	0.10
Odborní pracovníci ÚSV			
1.	Margita Benkovičová	100	1.00
2.	Kornel Dobročka	100	1.00
3.	Ľubica Gallová	100	1.00
4.	Irena Ginzeryová	100	1.00
5.	Ľudmila Hasíková	100	1.00
6.	Zuzana Chabroňová	100	1.00
7.	Jana Išová	86	0.86
8.	Viera Jesenská	100	1.00
9.	Radoslav Kohanyi	100	1.00
10.	Alena Kosorinová	100	1.00
11.	Margita Mišovičová	100	1.00
12.	Matilda Némethová	100	1.00
13.	Eva Nováková	100	1.00
14.	Alena Oravská	100	1.00
15.	Milada Poldaufová	100	1.00

16.	Blažena Rajciová	100	1.00
17.	Lucia Rojiková	100	0.66
18.	Marta Siebenstichová	100	1.00
19.	Renáta Szalayová	100	1.00
20.	Zuzana Štofanová	100	1.00
21.	Kvetoslava Tarábková	100	1.00
22.	Monika Vadovičová	100	0.00
Ostatní pracovníci			
1.	Ľudmila Bubničová	100	1.00
2.	Dagmar Cigánová	100	1.00
3.	Stanislav Daniš	100	1.00
4.	Alexandra Frátriková	100	1.00
5.	Marián Hanczko	100	1.00
6.	Jana Kavalírová	80	0.80
7.	Milan Košut	100	1.00
8.	Dušan Kovarský	80	0.80
9.	Iveta Krajčírová	100	1.00
10.	Vladimír Rojik	100	1.00
11.	Ľubica Sopúšková	100	1.00

Zoznam doktorandov

	Meno s titulmi	**Škola/fakulta**	**Študijný odbor**
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Martin Benej	Lekárska fakulta UK	7.1.15 onkológia
2.	Mgr. Lenka Berthová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
3.	Mgr. Monika Bohácsová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
4.	Mgr. Petra Bullová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
5.	Mgr. Michaela Debreová	Lekárska fakulta UK	7.1.15 onkológia
6.	Ing. Zuzana Ditte	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
7.	Mgr. Martina Frimmelová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
8.	Mgr. Mária Kamecayová	Prírodovedecká fakulta UK	4.2.13 virológia
9.	Mgr. Soňa Kontseková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
10.	Mgr. Katarína Lapošová	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	4.2.13 virológia
11.	Ing. Andrea Maňúrová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia

12.	Mgr. Alžbeta Nagyová	Prírodovedecká fakulta UK	4.2.13 virológia
13.	Mgr. Elena Ondrisková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
14.	Mgr. Darina Podoláková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
15.	Mgr. Margaréta Práznovská	Prírodovedecká fakulta UK	4.2.13 virológia
16.	Mgr. Lukáš Radosa	Prírodovedecká fakulta UK	4.2.13 virológia
17.	Mgr. Lucia Škorvanová	Prírodovedecká fakulta UK	4.2.13 virológia
18.	Mgr. Petra Švančarová	Prírodovedecká fakulta UK	4.2.13 virológia
19.	RNDr. Zuzana Timková	Prírodovedecká fakulta UK	4.2.13 virológia
20.	Mgr. Jana Valáriková	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
21.	Mgr. Zuzana Vozárová	Prírodovedecká fakulta UK	4.2.13 virológia
Interní doktorandi hradení z iných zdrojov			
1.	Mgr. Ľubomíra Lukáčiková	Prírodovedecká fakulta UK	4.2.13 virológia
2.	Mgr. Peter Pančík	Prírodovedecká fakulta UK	4.2.13 virológia
3.	Mgr. Lukáš Predajňa	Prírodovedecká fakulta UK	4.2.13 virológia
4.	Mgr. Peter Radvák	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
Externí doktorandi			
1.	Mgr. Lucia Kotlárová	Prírodovedecká fakulta UK	4.2.13 virológia
2.	RNDr. Martina Ličková	Prírodovedecká fakulta UK	4.2.13 virológia
3.	Mgr. Katarína Trnková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Kontrola rastlinných vírusov pomocou využitia RNA vakcín: nová stratégia bez použitia transgénov

(Plant virus control employing RNA-based vaccines: A novel non-transgenic strategy)

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	13.5.2009 / 29.3.2013
Evidenčné číslo projektu:	COST ACTION FA0806
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Andreas VOLOUDAKIS, Agricultural University of Athens, Iera Odos 75, 11855 Athens
Počet spoluriešiteľských inštitúcií:	23 - Afganistan: 0, Rakúsko: 1, Belgicko: 1, Bulharsko: 1, Cyprus: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Estónsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Švajčiarsko: 1, Izrael: 1, Taliansko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 1, Slovinsko: 1, Švédsko: 1
Čerpané financie:	MVTS: 4.000,- €

Dosiahnuté výsledky:

Pokračovala spolupráca fngujúcej siete laboratórií riešiacich problematiku RNA variability, gene silencing, produkcie dvojvláknovej RNA a krížovej ochrany. Pokračovali sme v štúdiu genetickej variability niektorých RNA vírusov pomocou parciálnej alebo úplnej sekvenácie ich genómu (Plum pox virus, Zucchini yellow mosaic virus, Grapevine leafroll-associated virus-1 a -3). Pripravil sa hairpin-intron konštrukt derivovaný z z 5´terminálnej oblasti genómu vírusu šarky slivky (P1-HC). Hairpin-mediated RNA silencing bol testovaný na modeli Nicotiana benthamiana pomocou ihPPV konštruktu. Na základe dát pracovísk COST FA0806 sme vytvorili databázu využiteľných dostupných vírusových a viroidových izolátov využiteľnú na podporu výmeny infekčných agens pre potreby výskumu.

2.) Hypoxia, jej vnímanie, signalizácia a adaptačné odpovede

(Hypoxia sensing, signalling and adaptation)

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	16.11.2009 / 15.11.2013
Evidenčné číslo projektu:	TD0901
Organizácia je koordinátorom projektu:	nie
Koordinátor:	prof. Roland Wenger, Institute of Physiology, University of Zurich
Počet spoluriešiteľských inštitúcií:	26 - Belgicko: 1, Česko: 2, Nemecko: 2, Dánsko: 1, Španielsko: 1, Estónsko: 0, Fínsko: 1, Francúzsko: 2, Veľká Británia: 1, Grécko: 1, Chorvátsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 2, Lotyšsko: 2,

	Holandsko: 1, Poľsko: 2, Portugalsko: 0, Slovinsko: 0, Švédsko: 2, Turecko: 1
Čerpané financie:	MVTS: 4.000,- €

Dosiahnuté výsledky:

Cieľom projektu je realizovať pravidelné konferencie expertov v oblasti výskumu hypoxie a podporiť aktívnu spoluprácu vedeckej komunity v tejto oblasti. V roku 2012 sme sa aktívne zúčastnili na konferencii v Bilbao (18.-20. 4. 2012), kde sme prezentovali dve pozvané prednášky (viď nižšie). Okrem toho sme vydali knihu o nádorovej hypoxii, prvú svojho druhu na svete, na ktorej sa autorsky podieľali členovia konzorcia.

Vedecké výstupy:

Kniha:

Pastorekova S, Kopacek J (Book Editors). Tumour Hypoxia: Molecular Mechanisms and Clinical Implications. Veda, SAS Publishing House Bratislava and Peter Lang, GmbH, Frankfurt am Main 2012, 556 pp., ISBN 978-3-631-63991-7

Pozvané prednášky:

Pastorekova S, Svastova E, Ditte P, Zatovicova M, Hulikova A, Kosik I, Csaderova L, Kopacek J, Pastorek J. Hypoxia-induced phosphorylation of carbonic anhydrase IX and its impact on pH regulation and cell migration. Invited lecture, Meeting of the COST action TD0901 HypoxiaNet, Bilbao, April 18-20, 2012, Book of Abstracts, p.17.

Radvak P, Svastova E, Takacova M, Csaderova L, Pastorek J, Pastorekova S. Kopacek J. Expression profiling of CA IX depleted fibrosarcoma cells. Invited lecture, Meeting of the COST action TD0901 HypoxiaNet, Bilbao, April 18-20, 2012, Book of Abstracts, p.26.

Programy: 7RP

3.) Kontrola vírusu šarky so zreteľom na rozširovanie EÚ

(Containment of sharka virus in view of EU-expansion)

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.3.2008 / 31.8.2012
Evidenčné číslo projektu:	204429
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Véronique Decroocq, INRA Centre de Recherches de Bordeaux, IBVM, UMR GDPP INRA-Univ. Bordeaux II 33883 Villenave d'Ornon
Počet spoluriešiteľských inštitúcií:	15 - Bulharsko: 2, Česko: 2, Nemecko: 1, Španielsko: 2, Francúzsko: 1, Taliansko: 1, Poľsko: 1, Rumunsko: 2, Srbsko: 1, Turecko: 1, USA: 1
Čerpané financie:	9.048,- €

Dosiahnuté výsledky:

Počas riešenia projektu bolo osekvenovaných viac než 800 izolátov vírusu šarky slivky (PPV) (parciálne sekvencie pokrývali 2 najvariabilnejšie časti PPV genómu– P3-6K1 a CP), vďaka čomu sa zhodnotila genetická diverzita PPV s cieľom identifikovať faktory ovplyvňujúce rozširovanie a diverzifikáciu PPV. PPV izoláty pochádzali z členských a asociovaných štátov EÚ, ako aj mimo

európskeho regiónu. Všetky získané sekvencie boli submitované do vytvorenej SharCo PPV databázy, ktorá aktuálne obsahuje epidemiologické informácie a sekvenčné dáta 803 PPV izolátov (približne 2x viac ako Genbank) Zistili sme vyššiu molekulárnu variabilitu pri kmeni PPV-D, čo ukázalo, že diverzita tohto najrozšírenejšieho PPV kmeňa bola podhodnotená, najmä vplyvom chýbajúcich údajov zo strednej a východnej Európy. V rámci každého kmeňa (M, D a Rec) sme identifikovali divergentné izoláty pochádzajúce najmä zo strednej a východnej Európy. Potvrdili sme rozdelenie kmeňa PPV-M na dve poskupiny (Ma a Mb) a obdržali sme po prvýkrát komplexný obraz o ich geografickej distribúcii. Boli identifikované 2 nové kmene PPV. Prvý zodpovedá chýbajúcemu ancestrálnemu predkovi v evolučnej histórii kmeňa PPV-M. Druhý predstavuje nový divergentný čerešňový kmeň identifikovaný v Rusku (PPV-CR). Tento objav ďalej potvrdil možnosť zvýšenej potenciálnej hrozby PPV v čerešňových sadoch. Pripravil sa infekčný klon BOR-3 izolátu (PPV-Rec kmeň) a určila sa jeho kompletná sekvencia. Biologické experimenty potvrdili, že tento klon spôsobuje na experimentálnych rastlinách rovnaké príznaky ako pôvodný BOR-3 izolát. Pomocou cielenej mutagenézy sme zmapovali genetické determinanty symptómového prejavu v P1 proteíne, na aminokyselinovej pozícii 138. Zhodnotila sa genetická diverzita a distribúcia PPV-M v prirodzenom hostiteľovi (slivka, Prunus domestica). 7 rokov po infekcii v poľných podmienkach sa zistil vysoký stupeň vnútroizolátovej variability. Celkovo sme v strome zistili 51 haplotypov, z ktorých dva boli dominantné. Nepozorovali sme však jasnú štruktúráciu vírusovej populácie v nadväznosti na architektúru koruny stromu, hoci výsledky naznačili možnosť diferenciácie populácie vnútri listu alebo plodu. Porovnanie konsenzuálnej sekvencie s pôvodnou sekvenciou inokula neukázalo po 7 rokoch žiadnu zmenu na aminokyselinovej úrovni, čo naznačuje genetickú stabilitu PPV izolátu. Participovali sme na vypracovaní dokumentov pre decíznu sféru (Pestovateľské smernice na kontrolu šarky slivky, Hodnotenie rizika vírusu šarky slivky, Rozhodovací podporný systém pre PPV, Risk management system pre vírus šarky slivky). Všetky dokumenty sú prístupné na www.sharco.eu.

Vedecké výstupy:

Predajňa L, Šubr Z, Candresse T, Glasa M (2012): Evaluation of the genetic diversity of Plum pox virus in a single plum tree. Virus Research 167: 112-117.

Nagyová A, Kamencayová M, Glasa M, Šubr Z (2012): The 3‘-proximal part of the Plum pox virus P1 gene determinates the symptom expression in two herbaceous host plants. Virus Genes 44: 505-512.

Predajňa L, Nagyová A, Glasa M, Šubr Z (2012): Cloning of the complete infectious cDNA of the Plum pox virus strain PPV-Rec. Acta Virologica 56: 135-138.

4.) Európsky vírusový archív (EVA)

(European Virus Archive (EVA))

Zodpovedný riešiteľ:	Boris Klempa
Trvanie projektu:	1.1.2009 / 31.12.2012
Evidenčné číslo projektu:	228292
Organizácia je koordinátorom projektu:	nie
Koordinátor:	prof. Jean-Louis Romette, Université de la Méditeranée, Marseille
Počet spoluriešiteľských inštitúcií:	8 - Nemecko: 2, Francúzsko: 2, Veľká Británia: 2, Švajčiarsko: 1, Slovinsko: 1

Čerpané financie:	Európska komisia: 61.325,- € APVV: 38.537,- € Podpora medzinárodnej spolupráce z národných zdrojov: 12.777,- €

Dosiahnuté výsledky:

V rámci pracovného balíka pre BSL 3, ktorého sme vedúcim pracoviskom, sme v pokračovali v optimalizácii metód pre zvyšovanie koncentrácie vírusov vo finálnom produkte. V katalógu archívu sme už celkovo vložili 53 produktov zo 16 rôznych vírusov. Najzaujímavejšie výsledky sme dosiahli v oblasti izolácie a charakterizácie nových izolátov hantavírusov, kde sme charakterizovali prvý Africký hantavírus Sangassou a taktiež nový izolát Európskeho hantavírusu Dobrava-Belgrade.

Vedecké výstupy:

Klempa, Boris - Witkowski, P.T. - Popugaeva, E. - Auste, B. - Koivogui, L. - Fichet-Calvet, E. - Strecker, T. - Ter Mrulrn, J. - Kruger, D.H. Sangassou Virus, the First Hantavirus Isolate from Africa, Displays Genetic and Functional Properties Distinct from Those of Other Murinae-Associated Hantaviruses. In Journal of Virology, 2012, vol. 86, no. 7, p. 3819 - 3827. (5.402 - IF2011). (2012 - Current Contents). ISSN 0022-538X.

Ppopugaeva, E. - Witkowski, P.T. - Schlegel, M. - Ulrich, R.G. - Auste, B. - Rang, A. - Krűger, D.H. - Klempa, Boris. Dobrava-Belgrade Hantavirus from Germany Shows Receptor Usage and Innate Immunity Induction Consistent with the Pathogenicity of the Virus in Humans. In PLoS ONE, 2012, vol. 7, no. 4, p. e35587. (4.092 - IF2011). ISSN 1932-6203.

Klempa, Boris - Avšič-Županc, T. - Clement, J. - Dzagurova, T.K. - Henttonen, H. - Heyman, P. - Jakab, F. - Krűger, D.H. - Maes, P. - Papa, A. - Tkachenko, E.A. - Ulrich, R.G. - Vapalahti, O. - Vaheri, A. Complex evolution and epidemiology of Dobrava - Belgrade hantavirus : definition of genotypes and their characteristics. In Archives of Virology, 2012, vol., no., p. 2012 Oct 23. [Epub ahead of print]. (2.111 - IF2011). (2012 - Current Contents). ISSN 0304-8608.

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:	Európska komisia: 45.859,- € Podpora medzinárodnej spolupráce z národných zdrojov: 5.366,- €

Dosiahnuté výsledky:

Tento projekt má tréningový charakter a jeho hlavným cieľom je výchova mladých vedeckých pracovníkov a rozvoj ich kariéry v multidisciplinárnom a medzinárodnom prostredí. Z vedeckého hľadiska je projekt zameraný na vývoj a testovanie rozličných biosenzorov na bunkových

modeloch. V roku 2012 na tomto projekte pracovala PhD študentka z Poľska, ktorá študovala vzťah medzi nádorovými proteínmi CA IX a p53. Naše pracovisko tiež navštívila PhD študentka z partnerskej Univerzity v Kodani a počas trojtýždňového študijného pobytu si osvojila viaceré metódy bunkovej a molekulárnej biológie vhodné na štúdium transportu proteínov. Pre mladých vedeckých pracovníkov z partnerských inštitúcií sme v septembri zorganizovali tréningový kurz, počas ktorého sme ich oboznámili s modernými metódami analýzy bunkových parametrov.

Vedecké výstupy:

S. van den Driesche, F. Iuliano, C. Haiden, D. Pucciarelli, H. Breiteneder, S. Pastorekova, C. Hafner, and M.J. Vellekoop, Cell membrane morphology analysis using an infrared sensor system, Sensors and Actuators-B: Chemical journal, 2012, doi:10.1016/j.snb.2012.10.139

6.) Metastázy ako dôsledok nádorového mikroprostredia

(Metastatic tumours facilitated by hypoxic tumour microenvironments)

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.2.2009 / 31.1.2014
Evidenčné číslo projektu:	222741
Organizácia je koordinátorom projektu:	nie
Koordinátor:	prof. Erik Olai Pettersen, The University of Oslo
Počet spoluriešiteľských inštitúcií:	19 - Nemecko: 3, Dánsko: 2, Španielsko: 1, Francúzsko: 1, Veľká Británia: 4, Taliansko: 1, Litva: 1, Holandsko: 2, Nórsko: 3, Švédsko: 1
Čerpané financie:	Európska komisia: 55.958,- € APVV: 74.288,- € Podpora medzinárodnej spolupráce z národných zdrojov: 7.772,- €

Dosiahnuté výsledky:

V roku 2012 sme uskutočnili štúdium protinádorových účinkov inhibítora karbonických anhydráz acetazolamidu pomocou molekulárnej analýzy ich vplyvu na trankripčný profil nádorových buniek kultivovaných v trojrozmerných sferoidoch. Získali sme originálne výsledky, ktoré poukazujú na to, že inhibítory majú vedľajšie účinky, ktoré zasahujú do rôznych dráh prenosu bunkových signálov a ovplyvňujú aj expresiu CA IX. Výsledky boli prezentované na konferenciách a publikácia je v príprave.

Vedecké výstupy:

Pastorekova S. Carbonic anhydrase IX: Regulation and role in cancer development. Invited lecture. 18th Cancer Symposium “Metabolism and Cancer”, Danish Cancer Society, Copenhagen, September 17-19, 2012, Abstract book, p.36.

Pastorekova S, Zatovicova M, Iuliano F, Barathova M, Csaderova L, Ditte P, Takacova M, Labudova M, Sedlakova O, Svastova E, Kopacek J, Pastorek J. Acetazolamide – more than carbonic anhydrase inhibitor. The 9th International Conference on Carbonic Anhydrase, Antalya, Turkey, April 11-15, 2012, Book of Abstracts, p.25.

Pastorekova S, Zatovicova M, Iuliano F, Barathova M, Csaderova L, Ditte P, Takacova M, Labudova M, Sedlakova O, Svastova E, Kopacek J, Pastorek J. Carbonic anhydrase inhibitor acetazolamide

modulates transcription and shedding of tumor hypoxia-related carbonic anhydrase IX. XXIII. Biochemický zjazd ČSBMB a SSBMB, Brno, 26.-29.8.2012, Zborník prednášok a posterov, p.64.

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

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.11.2010 / 30.4.2014
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: 34.846,- € APVV: 20.722,- € Podpora medzinárodnej spolupráce z národných zdrojov: 4.000,- €

Dosiahnuté výsledky:
Rôzne kmene vírusov chrípky A vtáčieho pôvodu sme adaptovali na myši a porovnávali sme ich replikačnú schopnosť in vitro a in vivo. Zo 4 kmeňov vírusov chrípky subtypov H4, H5 a H7, len dva kmene sa replikovali v pľúcach myší, z toho len jeden, H7 subtypu, spôsobil u myší letálnu chrípkovú infekciu. Tento kmeň bol ďalej sekvenovaný a bola u neho stanovená letálna dávka 1LD50. Uvedený kmeň bude v ďalších experimentoch slúžiť ako modelový virus pre stanovenie krížovo-protektívneho antivírusového účinku novo navrhnutých potenciálnych antivirotík targetovaných na RNA-polymerázu vírusu chrípky A. Ďalšie 4 nové navrhnuté látky, ktorých inhibičná aktivita na chrípkovú RNA-polymerázovú aktivitu bola dokázaná v rámci riešenia tohoto projektu boli paralelne testované in vitro a in vivo na myšom modeli. Ich antivírusový účinok bol porovnávaný s dnes používaným antivirotikom na báze inhibície vírusovej neuraminidázy, Tamiflu. Výsledky experimentov sa štatisticky vyhodnotili a určil sa ich index protektivity. V týchto experimentoch sa bude pokračovať a na záver sa komplexne vyhodnotia tak, aby sa vybrala najefektívnejšia látka schopná inhibovať replikáciu vírusov chrípky ľubovoľného subtypu ako účinné antivirotikum proti chrípke.

Programy: Bilaterálne – iné

8.) Biomarkery pre skorú detekciu a terapiu nádorov nadobličiek: Molekulárna patogenéza a klinické korelácie
(Biomarkers for Early Detection and Therapy of Adrenal Gland Tumors: Molecular Pathogenesis and Clinical Correlates)

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.1.2009 / 31.12.2014
Evidenčné číslo projektu:	nebolo udelené
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Institute of Child Health and Human Development, NIH, Bethesda

Počet spoluriešiteľských inštitúcií:	5 - Slovensko: 4, USA: 1
Čerpané financie:	žiadne

Dosiahnuté výsledky:

V roku 2012 sme v spolupráci s klinickým partnerom zozbierali nádorové a kontrolné tkanivá z nadobličiek a spracovali ich na imunohistochemické a molekulárne analýzy, ktoré boli zrealizované a vyhodnotené ďalším partnerom v NIH. Originálne výsledky získané v NIH sú predmetom publikácie, ktorá je v recenznom konaní a na ktorej sa spoluautorsky podieľajú aj pracovníci VÚ SAV.

Programy: Multilaterálne - iné

9.) Molekulárna príprava geneticky modifikovaných vírusov

(Molecular engineering of genetically modified viruses)

Zodpovedný riešiteľ:	Boris Klempa
Trvanie projektu:	1.1.2011 / 31.12.2012
Evidenčné číslo projektu:	The Royal Society International Joint Project 2010/R2
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Reading
Počet spoluriešiteľských inštitúcií:	2 - Veľká Británia: 1, Slovensko: 1
Čerpané financie:	žiadne

Dosiahnuté výsledky:

V súlade s hlavným zameraním projektu na budovanie medzinárodnej spolupráce a vzájomný prenos technológií a skúseností medzi partnerskými organizáciami boli hlavným výstupom projektu v tomto roku dva študijné pobyty Dr. Havlíkovej v partnerskom laboratóriu Univerzity v Readingu zamerané na štúdium metodiky cielenej mutagenézy infekčného klonu vírusu kliešťovej encefalitídy.

10.) Vnútrobunkový životný cyklus Francisella piscicida v antlantickej treske

(Intracellular lifestyle of Francisella piscicida in Atlantic cod)

Zodpovedný riešiteľ:	Rudolf Toman
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	190632
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Marit Seppola, Nofima Marin, Tromso, Norway
Počet spoluriešiteľských inštitúcií:	18 - Dánsko: 3, Nórsko: 11, Slovensko: 4
Čerpané financie:	žiadne

Dosiahnuté výsledky:

Uskutočnili sme detailnejšiu štruktúrna charakterizácie lipopolysacharidu (LPS) z Francisella

piscicida kombináciou metylačnej analýzy s GC a GC-MS. Ukázalo sa, že O-špecifický reťazec má štrutúrne rysy podobné iným bakteriálnym LPS s podobným zložením konštitučných sacharidov. Endotoxínové centrum LPS-lipid A má základné štruktúrne rysy podobné bakterálnym LPS so silnou endotoxínovou aktivitou.

Programy: European Regional Development Fund (ERDF)

11.) Kombinované inovatívne postupy na zlepšenie zdravotného stavu a kvality regionálnej produkcie ovocia

(Combined innovative methods to improve the health status and the qualityof regional fruit production.)

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.2.2011 / 31.1.2013
Evidenčné číslo projektu:	HUSK0901/1.2.1/0126
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Budapesti Corvinus Egyetem, Budapest
Počet spoluriešiteľských inštitúcií:	2 - Maďarsko: 2
Čerpané financie:	26.406,- €

Dosiahnuté výsledky:

Viac ako 150 vzoriek Prunus zozbieraných v ovocných sadoch bolo testovaných na prítomnosť vírusu šarky slivky (PPV) a vírusu chlorotickej škvrnitosti jablone (ACLSV). Okrem tradičných techník sme pri detekcii úspešne využili optimalizovanú jednoduchú a efektívnu metódu pre uchovávanie, manipuláciu a získanie celkovej RNA pomocou technológie FTA membrán. Parciálna sekvenácia PPV izolátov umožnila skompletizovať celkový obraz o diverzite PPV v prihraničných regiónoch. Kmeňová variability PPV v sade sliviek a broskýň so zmesnou infekciou PPV-M, D a Rec bola zhodnotená pomocou kmeňovo-špecifickej RT-PCR a parciálnou sekvenáciou vírusových izolátov. Analýza ukázala predominanciu PPV-M a absenciu PPV-Rec na broskyniach. Zrealizoval sa experiment v kontrolovaných podmienkach, hodnotiaci zmesnú PPV infekciu rôznych druhov Prunus (slivka, marhuľa, broskyňa). Výsledky naznačujú vyššiu hostiteľskú adaptabilitu niektorých kmeňov k určitým Prunus (napr. PPV-M k broskyniam). Bola zriadená a pravidelne updatovaná dvojjazyčná (slovensko-maďarská) voľne dostupná webstránka prezentujúca projektové ciele, aktivity, výsledky, kontakty (www.bioweb.genezis.eu/cosharka). Naviac boli uskutočnené viaceré prezenčné aktivity cielené na rôzne skupiny (verejnosť, pestovatelia, fytoinšpektori, vedecká komunita).

Vedecké výstupy:

Predajňa L, Šubr Z, Ádám J, Palkovics L, Glasa M (2012: Use of the FTA (Whatman) membranes for efficient and easy-to-use sampling and molecular detection of stone fruit and grapevine RNA viruses. Acta Fytotechnica et zootechnica 15, Special number, pp. 44-45. ISSN 1336-9245.

Projekty národných agentúr

Programy: VEGA

1.) Identifikácia vybraných bioaktívnych látok produkovaných v slinách kliešťov

(Identification of selected bioactive molecules secreted in tick saliva)

Zodpovedný riešiteľ:	Pavlína Bartíková
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0205/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5.166,- €

Dosiahnuté výsledky:

Je zjavné, že kliešte zohrávajú dôležitú úlohu v cirkulácii vírusov v prírode. S výnimkou jedného zástupcu DNA vírusov, sú všetky vírusy prenosné kliešťami RNA vírusmi. Nedávno bol experimentálne dokázaný prenos ďalšieho zástupcu DNA vírusov, a to myšacieho gamaherpes-vírusu 68 (MuHV-4). Preto sme sa rozhodli sledovať in vitro replikáciu tohto vírusu na kliešťovej bunkovej línii IRE/CTVM 19, ktorej kultiváciu sme zaviedli v našich laboratóriach. Ide o bunkovú líniu derivovanú z vajíčok kliešťa Ixodes ricinus. Na detekciu myšacieho herpetického vírusu v bunkách sme použili fluorescenčne značené (Alexa, FITC) sekundárne protilátky voči primárnym anti-MuHV4 protilátkam, keďže kliešťové bunkové línie infikované akýmkoľvek vírusom nevykazujú žiaden cytopatický efekt. Doposiaľ získané výsledky boli negatívne, experimenty však naďalej pokračujú.

Využitím dvojhybridného kvasinkového systému sa snažíme v slinách kliešťov identifikovať látky viažúce rastové faktory. V súčasnosti prebieha skríning knižnice pripravenej z čiastočne nacicaných samcov Amblyomma variegatum pre rastový faktor TGF-b1 a príprava konštruktov s rastovým faktorom FGF-2.

2.) Štúdium 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: 9.366,- €

Dosiahnuté výsledky:

Pripravili sme siRNA proti NS génu vírusu chrípky typu A. Pripravené siRNA sme otestovali na MDCK bunkách s dvomi rôznymi kmeňmi vírusov chrípky in vitro. Adaptovali sme A/PR/8/34 vírus na Balb/c myši. Terapeutický účinok nami pripravených siRNA sme otestovali na Balb/c myšiach. Zistili sme, že siRNA ktoré inhibovali replikáciu vírusu in vitro majú protektívny účinok aj in vivo. Dosiahnuté výsledky sme prezentovali na konferenciách.

Vedecké výstupy:

Borovská - Švančarová, Petra - Svetlíková, Darina - Betáková, Tatiana. Inhibícia replikácie vírusov chrípky pomocou siRNA namierených proti NS1 a NEP proteínom. In Študentská vedecká konferencia PriF UK 2012 : zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského, 2012, s. 67 -72. ISBN 978-80-223-3213-2.

Borovská-Švančarová, Petra - Škorvanová, Lucia - Svetlíková, Darina - Betáková, Tatiana. Terapeutický účinok siRNA proti infekcii vírusom chrípky v BALB/c myšiach. In Tomáškovy dny 2012 - Sborník 7.-8.6.2012 Brno. XXI. Konference mladých mikrobiologú. - Brno : Masarykova univerzita, 2012, p. 7 - 8. ISBN 978-80-210-5874-3.

Lachová, Veronika – Borovská - Švančarová, Petra - Škorvanová, Lucia - Svetlíková, Darina - Betáková, Tatiana. Sledovanie vplyvu nového antivirotika OHS-20 na replikáciu vírusu chrípky typu A. In Študentská vedecká konferencia PriF UK 2012 : zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského, 2012, s. 394 - 399. ISBN 978-80-223-3213-2.

Škorvanová, Lucia – Borovská -Švančarová, Petra - Svetlíková, Darina - Betáková, Tatiana. Príprava vírusov chrípky typu A s rôznymi delečnými formami NS1 proteínu. In Študentská vedecká konferencia PriF UK 2012 : zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského, 2012, s. 618 - 622. ISBN 978-80-223-3213-2.

Škorvanová, Lucia – Borovská -Švančarová, Petra - Svetlíková, Darina - Betáková, Tatiana. Príprava a charakterizácia vírusov chrípky s rôznymi deléciami v NS géne. In Tomáškovy dny 2012 - Sborník 7.-8.6.2012 Brno. XXI. Konference mladých mikrobiologú. - Brno : Masarykova univerzita, 2012, p. 62 - 63. ISBN 978-80-210-5874-3.

3.) Molekulárne mechanizmy interakcií nanočastíc magnetitu po internalizácii a akumulácii v bunkách in vitro

(Molecular mechanisms of magnetite nanoparticle interactions due to internalization and accumulation in cells in vitro)

Zodpovedný riešiteľ:	Alena Gábelová
Zodpovedný riešiteľ v organizácii SAV:	Fedor Čiampor
Trvanie projektu:	1.1.2009 / 31.12.2012
Evidenčné číslo projektu:	2/0051/09
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚEO SAV

Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	žiadne

Dosiahnuté výsledky:

Všetky MNP (magnetite nano particles) indukovali na dávke i čase závislé stúpnutie cytotoxicity u oboch bunkových línií – ľudské nádorové i diploidné pľúcne bunky. Cytotoxicita narastala proporcionálne k veľkosti použitých nanočastíc. Výraznejšia internalizácia MNP bola pozorovaná do HEL 12469 buniek v porovnaní s A549 bunkami. Viabilita ľudských embryonálnych pľúcnych buniek bola výraznejšie redukovaná v porovnaní s bunkami pľúcneho adenokarcinómu.

Vedecké výstupy:

Mesarosova,M., Ciampor,F., Zavisova,V., Koneracka, M., Ursinyova, M., Kozicz,K., Tomasovicova, N., Hashim, A., Vavra,I., Krizanova,Z., Husekova,Z., Kubovcikova, M., Kopcansky,P., Timko,M., Gabelova,A (2012)
The intensity of internalization and cytotoxicity of superparamagnetic iron oxide nanoparticles with different surface modification in human tumor and diploid cells. Neoplasma 59, 5, 584-597

4.) Proteomická analýza buniek s modulovanou expresiou vápnik-viažúceho proteínu S100P
(Proteomic analysis of cells with modulated expression of calcium-binding protein S100P)

Zodpovedný riešiteľ:	Adriana Gibadulinová
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0172/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7.177,- €

Dosiahnuté výsledky:

Na identifikáciu S100P interagujúcich partnerov pomocou GST pulldownu (glutation-agarózovej afinitnej chromatografie) boli použité GST-S100P fúzne proteiny ako aj ich mutované varianty neschopné dimerizácie. Rozdielne profily interagujúcich proteinov z HeLa bunkových lyzátov boli po SDS-PAGE extrahované z gelu a identifikované hmotnostnou spektrometriou. Ďalej je potrebné dokázať špecifickosť interakcií a ich fyziologickú relevantnosť.

Vedecké výstupy:

Tóthová V., Kopáček J., Pastorek J., Pastoreková S. a Gibadulinová A. „Glucocorticoid receptor - mediated transcriptional regulation of cancer related protein S100P", XXIII. biochemický sjezd Brno, 26. – 29. aug 2012

Tóthová V., Pastoreková S. a Gibadulinová A. „Regulácia expresie génu kódujúceho nádorovo asociovaný proteín S100P"
Siedme ivánské dni mladých biológov, Ivánka pri Dunaji, 5.6.2012

5.) Identifikácia, molekulárna variabilita a detekcia hospodársky významných vírusov viniča hroznorodého na Slovensku

(Identification, molecular variability and detection of economically important viruses of grapevine in Slovakia)

Zodpovedný riešiteľ:	Miroslav Glasa
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0030/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6.572,- €

Dosiahnuté výsledky:

S cieľom zvýšiť dostupné dáta o molekulárnej variabilite vírusov viniča v stredoeurópskom regióne sme určili 3,5kb sekvenciu genómu symptomatologicky atypického izolátu vírusu zvinutky viniča-3 (GLRaV-3). Nukleotidová identita s dostupnými geograficky odlišnými izolátmi z rôznych častí sveta dosahovala 89.4 (izoláty z Group 3) až 99.5% (izoláty z Group 1). Vegetatívne množenie infikovanými odrezkami neviedlo k zmenám v dominantnej GLRaV-3 sekvencii detekovanej v materskej rastline pri porovnaní s populáciami charakterizovanými v nových 5-ročných pravokorenných rastlinách. Tieto výsledky naznačujú vysokú genetickú stabilitu vírusovej populácie izolátu. Zhodnotila sa vhodnosť FTA Whatman membrán na uchovávanie rastlinných RNA vírusov. Technológia bola efektívna pri detekcii vírusu zvinutky viniča-1 (GLRaV-1), vírusu fľakatosti viniča (GFkV) a vírusu mozaiky arábky (ArMV) a pre svoju jednoduchosť a cenu bola integrovaná do protokolov pre detekciu vírusov viniča. Zhodnotili sme molekulárnu variabilitu hospodársky významných RNA vírusov infikujúcich vinič – vírus viniča A (GVA), GLRaV-1 a ArMV. Výsledky dokázali značný stupeň diverzity v rámci každého vírusu s možným vplyvom na diagnostiku. Získané molekulárne dáta sme zohľadnili pri vývoji nových adaptovaných primerov pre efektívnu detekciu týchto patogénov pomocou RT-PCR.

Vedecké výstupy:

Glasa M, Predajňa L (2012): Partial sequence analysis of a grapevine leafroll-associated virus 3 isolate from Slovakia. Journal of Plant Pathology 94: 675-679.

Predajňa L, Šubr Z, Ádám J, Palkovics L, Glasa M (2012): Use of the FTA (Whatman) membranes for efficient and easy-to-use sampling and molecular detection of stone fruit and grapevine RNA viruses. Acta Fytotechnica et zootechnica 15, Special number, 44-45.

6.) Molekulárne determinanty neviremického prenosu vírusu kliešťovej encefalitídy z kliešťa na kliešte počas spoločného cicania

(Molecular determinants of non-viraemic transmission of tick-borne encephalitis between co-feeding ticks)

Zodpovedný riešiteľ:	Sabína Havlíková
Trvanie projektu:	1.1.2012 / 21.12.2014
Evidenčné číslo projektu:	2/0191/12

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3.938,- €

Dosiahnuté výsledky:

V prvom roku projektu sme pripravenými konštruktmi plazmidov Vs/Hypr transfekovali cicavčie bunky (bunková línia PS) a overili sme prítomnosť geneticky modifikovaných vírusov pomocou PCR amplifikácie a následnej sekvenácie. Chimerické vírusy sme kultivovali na bunkovej línii PS a pripravili sme zásobné vírusové suspenzie. Sledovali sme vybrané biologické vlastnosti novo pripravených vírusov ako sú cytopatický efekt, plaková morfológia a vyhodnotili sme rastovú krivku vírusov.

7.) Testovanie antivírusového potenciálu interferónov typu III (lambda1,2 a 3) na niektorých medicínsky významných

(Antiviral activities of interferons lambda (type III) against some medical important viruses)

Zodpovedný riešiteľ:	Peter Kabát
Zodpovedný riešiteľ v organizácii SAV:	Tatiana Betáková
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	1/0265/11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 1.985,- €

Dosiahnuté výsledky:

Vyvinuli sme RT-PCR na detekciu a kvantifikáciu IFN-alfa, IFN-beta, IFN-gama and IFNov -lambda vo vzorkách získaných z orgánov Balb/c myší. Dosiahnuté výsledky boli prezentované n konferenciách.

Vedecké výstupy:

Škorvanová, Lucia - Borovská, Petra - Svetlíková, Darina - Betáková, Tatiana. Príprava vírusov chrípky typu A s rôznymi deletčnými formami NS1 proteínu. In Študentská vedecká konferencia PriF UK 2012 : zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského, 2012, s. 618 - 622. ISBN 978-80-223-3213-2

Škorvanová, Lucia - Borovská, Petra - Svetlíková, Darina - Betáková, Tatiana. Príprava a charakterizácia vírusov chrípky s rôznymi deléciami v NS géne. In Tomáškovy dny 2012 - Sborník 7.-8.6.2012 Brno. XXI. Konference mladých mikrobiologú. - Brno : Masarykova univerzita, 2012, p. 62 - 63. ISBN 978-80-210-5874-3

8.) Význam ektoparazitických článkonožcov (roztočov a kliešťov) v cirkulácii intracelulárnych proteobaktérii (rickettsie, anaplazmy, Francisella tularensis) v prírodných ohniskách nákaz
(The significance of ectoparasitic arthropods (mites, ticks) in relation with circulation of intracellular proteobacteria (rickettsiae, anaplasmae, francisella) in natural foci of zoonoses)

Zodpovedný riešiteľ:	Elena Kocianová
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	2/0142/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5.364,- €

Dosiahnuté výsledky:
Výskyt rickettsií, bol po prvýkrát na Slovensku potvrdený aj u mesostigmátnych roztočov, Laelaps agilis (4,6), ktoré často parazitujú simultánne na drobných hlodavcoch spolu so subadultnými kliešťami I.ricinus (8,9)a zabezpečujú ich cirkuláciu v prírode. Rickettsia sp. (zatial nezaradená do druhu) bola detegovaná PCR a sekvenovaním u kliešťov parazitujúcich na slávikoch(2). Dominantnými vektormi R. slovaca a R. raoultii na Slovensku sú jednoznačne D.reticulatus a D.marginatus(1,5). Izoláciou sa potvrdila cirkulácia R.helvetica na SR len u I. ricinus(3.)Pozitívne kliešte (rickettsie, borélie, babesie) počas sezónnej aktivity napádali aj ľudí, niekoľkí z nich ochoreli (7, 10, 11)

Vedecké výstupy:
Špitalská E., Štefanidesová K., Kocianová E., Boldiš V., 2012: Rickettsia slovaca and Rickettsi raoultii in Dermacentor marginatus and Dermacentor reticulatus ticks from Slovak Republic. Exp Appl Acarol, 57: 189-197. DOI 10.1007/s10493-012-9539-8.

Dubská L., Literák I., Kverek P., Roubalová E., Kocianová E., Tarageľová V., 2012: Tick-borne zoonotic pathogens in ticks feeding on the common nightingale including a novel strain of Rickettsia sp. Ticks and Tick-borne Diseases 3: 265-268.

Sekeyová Z., Mediannikov O., Subramanian G., Kowalczewska M., Quevedo Diaz M., Kocianová E., Raoult D., 2012: Isolation of Rickettsia helvetica from ticks in Slovakia. Acta Virologica, 56: 247 – 252.

Kocianová E., 2012: Fauna drobných zemných cicavcov a kliešťov (Ixodidae) v Martinskom lese. In: Fedor P., Vidlička Ľ., eds. „Fauna Martinského lesa (vybrané kapitoly)“, vyd. Ústav zoológie SAV, Bratislava, str. 215- 218. ISBN 978-80-970326-2-3

Sekeyová Z., Subramanian G., Mediannikov O., Špitalská E., Kocianová E., Raoult D., 2012: Reemerging of Tick Associated Bacteria in Slovakia. 22nd European Congress of Clinical Microbiology and Infectious Diseases, London, 31.3.- 3.4. 2012, poster.Abstrakt book.

Kocianová E., 2012: Sú ektoparazitické mesostigmátne roztoče vektormi pôvodcov rickettsióz? X. České a slovenské parazitologické dny, Brno, 28.-31.5.2012, Program a sbornik abstraktu, p.78.
Derdáková M., Špitalská E., Walder P., Pangrácová L., Selyemová D., Štefanidesová K., Kocianová

E., Peťko B., 2012: Candidatus Neoehrlichia micurensisi v prírodných ohniskách strednej Európy. X. České a slovenské parazitologické dny, Brno, 28.-31.5.2012, Program a sbornik abstraktu, p. 96.

Svitálková Z., Mydlová L., Derdáková M., Tarageľová V., Seleymová D., Kocianová E.,Slovák M., Kazimírová M., 2012 : Occurrence of tick-borne pathogens in questing Ixodes ricinus ticks in an urban and woodland site in southwestern Slovakia. Abstrakt Book 18th E-SOVE Conference, Oct 8th-11th, 2012, Montpellier, France,nečíslované.

Kocianová E. Sekeyová Z., Špitalská E, 2012: Patogéne rickettsie cirkulujúce v prírodných ohniskách na Slovensku. XI. Červenkove dni preventívnej medicíny, 9.-11.5.2012,Banská Bystrica. Abstrakty, str. nečíslované.

Kocianová E., Špitalská E., Tarageľová V., Derdáková M., Selyemová D., Vaculová T., Mydlová L., 2012: Kliešte u človeka ako parazity aj ako vektory. Zborník abstraktov XIII. Prowázkove dni 25.-26.10. 2012, Komárno, s. 18-19.

Tarageľová V., Kočí J., Selyemová D.,. Špitalská E., Literák I., Kocianová E.,Ondrisková E., Majláthová V., Derdáková M., 2012: Ekológia a epidemiologický význam kliešťov a ich interakcie s hostiteľmi. Zborník abstraktov XIII. Prowázkove dni 25.- 26.10. 2012, Komárno, s. 16-17.

9.) Vybrané patogenetické parametre experimentálnej infekcie myší chrípkovými vírusmi ľudského a vtáčieho pôvodu

(Selected pathogenetic parameters of experimantal infection of mice with influenza viruses of human and avian origin.)

Zodpovedný riešiteľ:	František Kostolanský
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0101/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8.834,- €

Dosiahnuté výsledky:

Vybrali sme dve rôzne oblasti vírusového HA2 gp pochádzajúce z vírusu chrípky typu A subtypu H3 pre indukciu antivírusovej imunitnej odpovede: ektodoménu (EHA2)pozostávajúcu z aa 23-185 a fúzny peptid (FP)zahŕňajúci N-terminálne aa 1-38. Myši BALB/c boli imunizované 3 dávkami EHA2 resp. FP a nato infikované 2 LD50 vírusu homológneho (H3)alebo heterológneho (H7) subtypu. Oba peptidy indukovali signifikantnú protilátkovú odpoveď a chránili myši voči letálnej infekcii.

Vedecké výstupy:

Staneková, Zuzana - Mucha, Vojtech - Sládková, Tatiana - Blaškovičová, H. - Kostolanský, František - Varečková, Eva. Epitope specificity of anti-HA2 antibodies induced in humans during influenza infection. In Influenza and Other Respiratory Viruses, 2012, vol. 6, no. 6, p. 389 - 395. (4.157 - IF2011). (2012 - Current Contents). ISSN 1750-2640.

Janulíková, Jana - Staneková, Zuzana - Mucha, Vojtech - Kostolanský, František - Varečková, Eva. Two distinct regions of HA2 glycopolypeptide of influenza virus hemaglutinin elicit cross-protective immunity against influenza. In Acta Virologica : international journal, 2012, vol. 56, no. 3, p. 169 - 176. (0.682 - IF2011). (2012 - Current Contents). ISSN 0001-723X.

10.) Štúdium nového proteínového modulátora imunitnej odpovede kódovaného Myším herpetickým vírusom

(Study on novel protein modulator of immune response encoded by Murine gammaherpes-virus)

Zodpovedný riešiteľ:	Marcela Kúdelová
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0126/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8.557,- €

Dosiahnuté výsledky:

Skonštruovali sme pET expresný systém a exprimovali dve izoformy M3 proteínu Myšieho herpetického vírusu v E. coli, ktorý umožňuje rýchlu a efektívnu overprodukciu tohto proteínu. Purifikovali sme prototypovú izoformu proteínu M3 (kmeňa MHV-68) a izoformu s mutáciu v blízkosti väzobného miesta (kmeňa MHV-72) so sekvenciou 6xHis-tag na C konci proteínu pomocou Ni-NTA chromatografie za denetauračných aj natívnych podmienok. Integritu M3 proteínu kmeňa MHV-72 sme potvrdili parciálnym sekvenovaním N konca. Výsledky ukázali, že E. coli sú vhodným systémom na prípravu natívneho rekombinantného M3 proteínu v množstve a čistote postačujúcej na stanovenie jeho biologických vlastností v nasledujúcom štúdiu. Analýzou restrikčných profilov HinDIII a EcoRI genómu kmeňa MHV-4556 sme dokázali, že na ľavom konci nemá deléciu popísanú u kmeňov MHV-76 a MHV-Šumava. Stanovili sme primárnu štruktúru 22 585 bp genómu MHV-4556 obsahujúcich 21 génov a porovnali ich so sekvenciou ich homológov štandardného kmeňa MHV-68. U MHV-4556 sme identifikovali mutácie v 15 nukleotidoch a 8 aminokyselín v 5 génoch. Tieto mutácie v proteínoch M4, gB (ORF8), p43 (ORF11) ORF26 a ORF52 spôsobujú zníženie hydrofilicity proteínov a tiež expozíciu ich povrchu, a tak zrejme prispievajú k špecifickým patogenetickým vlastnostiam MHV-4556 (napr. zníženej imunogenicite).

V štúdiu úlohy kliešťov Ixodes ricinus v cirkulácii MHV-68 v prírode sme získali dôkaz, že vírus môže infikovať aj dospelé štádiá kliešťov a môže infikovať kliešte, ktoré cicajú na experimentálne infikovaných myšiach počas najmenej 10 dní.

Vedecké výstupy:

Kúdelová M, Halásová Z, Belvončíková P, Pančík P, Režuchová I, Valovičová M. (2012). Partial genome analysis of Murine gammaherpesvirus 4556 Acta Virol. 56, (3) p.177-186, ISSN 0001-723X. doi:10.4149/av_2012_03_177

Halásová Z, Režuchová I, Kúdelová M., Charakterizácia akútnej infekcie Myším herpetickým vírusom 4556 (MHV-4556) in vivo. ŠVK PriF UK 2012, Bratislava, 25. apríl 2012, Bratislava. Zborník recenzovaných príspevkov, ISBN 978-80-223-3213-2, pp.223-227.

Štibrániová, I., Halásová, Z., Slovák, M., Kúdelová, M., Hájnická, V. Experimentálny prenos MuHV-4, nového DNA vírusu, kliešťami Ixodes ricinus. XIII. Prowázkove dni 2012, 25.-26.10. 2012, Komárno, Zborník abstraktov ISSN 1335-8219, ISSN 1338-645X Ročník XII, číslo SB pp22-23.

Pančík P., Bauerová-Hlinková V., Kúdelová M. (2012) Large-scale purification of M3 protein of Murine herpesvirus (MHV), XX. Tomasek days, 7.-8. 6. 2012. Brno, Czech Republic. Zborník rozšírených abstraktov. ISBN 978-80-210-5874-3, pp 98-99.

Halásová Z, Režuchová I, Kúdelová M. Characterization of novel strain of Murid herpesvirus 4: some pathogenic features of acute infection of mice with Murine herpesvirus 4556 (MHV-4556) XX. Tomasek days, 7.-8. 6. 2012. Brno, Czech Republic. Zborník rozšírených abstraktov ISBN 978-80-210-5874-3, pp 85-86.

11.) 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: 7.726,- €

Dosiahnuté výsledky:

V prvom roku riešenia sme získali výsledky, ktoré naznačujú, že keratín 1 zohráva dôležitú úlohu pri prenose vírusu lymfocytárnej choriomeningitídy (LCMV) v perzistentne infikovaných bunkách NIH3T3.

Pripravili sme bezbunkové extrakty z buniek HeLa/MX, ktoré sú perziztentne infikované kmeňom MX vírusu LCMV a HeLa/ARM, ktoré sú infikované vírusom LCM kmeňom Armstrong. Bezbunkovým extraktom sme prenášali kmene vírusov MX a ARM na bunky NIH3T3, ktoré neobsahujú keratín 1. Prítomnosť vírusu bola dokazovaná po izolácii RNA pomocou RT-PCR (špecifickými primermi pre NP, ako aj ostatné vírusové proteíny ZP, L a GP), vo Western blote ako aj imunofluorescenčne (špecifickou protilátkou voči NP). Imunofluorescečne sme dokazovali aj prítomnosť keratínovej siete ako aj dezmozómov. Z projektu zatiaľ neboli nijaké publikované výstupy.

12.) Imunopatológia infekcie vírusom chrípky s dôrazom na úlohu neutrofilov v myšacom modeli

(Immunopathology of influenza virus infection with respect to the role of neutrophiles on mouse model)

Zodpovedný riešiteľ:	Tatiana Mikušková
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	2/0117/11

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3.050,- €

Dosiahnuté výsledky:

Stanovil sa podiel a početnosť jednotlivých bunkových subpopulácií (celkové lymfocyty - CD45+, T lymfocyty - CD3+, CD8+, CD4+, neutrofily a ďalšie) u myší kontrolných a myší infikovaných (homogenát pľúc odobratých na 2, 4, a 7. deň po infekcii.

13.) Identifikácia interakcií rastlinných faktorov a neštruktúrnych vírusových proteínov rodu Potyvirus a ich využitie na pochopenie systému prirodzenej obranyschopnosti rastlín
(Identification of interactions between plant factors and non-structural viral proteins from genus Potyvirus and their using to unterstand of plant natural defense system)

Zodpovedný riešiteľ:	Slavomíra Nováková
Trvanie projektu:	1.1.2012 / 21.12.2014
Evidenčné číslo projektu:	2/0156/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6.125,- €

Dosiahnuté výsledky:

Cieľom projektu je identifikácia funkčných partnerov v hostiteľskej rastline (čeľad Cucurbitaceae) infikovanej rôzne agresívnymi izolátmi ZYMV (Zucchini yellow mosaic virus) rodu Potyvirus pomocou proteomickej analýzy. Bola zozbieraná kolekcia odrôd cukety s rôznou odolnosťou voči vírusovej infekcii (rezistentná (Cuccurbita pepo „Jaguar“), imúnna (Cuccurbita moschata „Menina15“), citlivá (Cuccurbita pepo „Zelená“)) a kolekcia izolátov ZYMV s rozdielnou agresivitou (agresívny (H), stredne agresívny (Kuchyňa), bezpríznakový (SE)). Všetky odrody cukety boli testované na rezistenciu k ZYMV Elisa testom a Western blot analýzou. Všetky typy izolátov ZYMV boli plnodĺžkovo sekvenované a in silico analýzou vzájomne porovnané. Boli identifikované 3 rozdiely na úrovni aminokyselín vo vnútri proteínov HC-Pro a P3. Na analýzu proteínových profilov jednotlivých odrôd cukety bola použitá 2D elektroforéza, kde bol optimalizovaný protokol extrakcie proteínov z rastlinného materiálu fenolovaním s následnou precipitáciou octanom amónnym. Proteíny boli extrahované z rezistentnej aj citlivej odrody tekvice bez infekcie a 21dni po infekcii agresivnym izolátom ZYMV-H .

14.) Presmerovaná imunoterapia: Nový terapeutický koncept pre liečbu vírusových a nádorových ochorení
(Redirected immunotherapy: a novel therapeutic concept for treatment of viral and cancer dieases)

Zodpovedný riešiteľ:	Juraj Petrík
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0072/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8.654, - €

Dosiahnuté výsledky:

Zistili sme, že chimérická molekula pozostávajúca z hemaglutinínu vírusu osýpok a z peptidu viažúceho sa na PG doménu proteínu CA IX vykazuje nežiadanú väzbu na bunky, ktoré nemajú na povrchu CA IX. Tento jav je pravdepodobne spôsobený väzbou na receptory pre hemaglutinín vírusu osýpok. Preto sme uskutočnili in vitro mutagenézu na disrupciu väzobných miest v hemaglutiníne. Testovanie modifikovanej chiméry naznačuje čiastočnú elimináciu nešpecifickej väzby, ale poukazuje na nevyhnutnosť ďalších modifikácií pre dosiahnutie žiadanej exkluzívnej väzby na CA IX potrebnej pre presmerovanie imunity a cielené zasiahnutie nádorových buniek.

Vedecké výstupy:

Trnkova K, Pastorekova S, Petrik J. Novel approaches to antiviral and anticancer immunotherapy. Acta Virol. 2012, 56: 271-282.

Trnková K., Petrík J. Presmerovaná imunoterapia - nová protinádorová stratégia. In Siedme ivanské dni mladých biológov : Program a abstrakty. - Ivanka pri Dunaji, 2012, s. 26.

Trnková K., Zaťovičová M., Petrík J. Redirected immunotherapy - an alternative concept for cancer therapy. In Folia Medica Cassoviensia : odborný časopis pre lekárske, farmaceutické a biologické vedy, 2012, vol. 67, no. 1, p. 28-29.

15.) 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: 1.905,- €

Dosiahnuté výsledky:

Pripravili sme variant Rickettsia akari rezistentne na antibiotika (Carbenicillin and Zeocin) Sledovali sme jeho zmeny v morfológie a tvorba plakov na bunkovej línie Vero. Zaznamenali sme zmeny vo vonkajšej membráne. Dosiahnuté výsledky sme prezentovali na medzinárodnej konferencie.

Vedecké výstupy:

Quevedo Diaz M., Vadovic P., Radulovic S. Phenotypical a immunological changes of Rickettsia akari aunder antibiotic pressure. In: X. ČESKÉ A SLOVENSKÉ PARAZITOLOGICKÉ DNI. Program & Zborník abstraktov. - Brno : Masarykova Univerzita, 2012, p. 95.

16.) 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: 8.438,- €

Dosiahnuté výsledky:

Charakterizovali sme latentnú infekciu MHV4556 v porovnaní s prototypovým kmeňom MHV68. Zistili sme porovnateľné navodenie latencie s MHV4556, avšak s nižšími hodnotami počtu kópií genómu MHV-4556 v slezine, redukovanú a oneskorenú (približne o 10 dní) splenomegáliu a signifikantne zníženú schopnosť MHV-4556 reaktivovať z latencie ex vivo. Zaviedli sme novú metódu – real-time PCR, pre kvantifikáciu vírusových hladín v orgánoch a tkanivách.

17.) Porovnanie špecifických markerov vhodných na detekciu rickettsií, legionelóz (Coxiella burnetii) a im príbuzných vnútrobunkových baktérií.

(Comparison of specific markers suitable for detection of rickettsiae, legionellae (Coxiella burnetii), and related intracellular bacteria.)

Zodpovedný riešiteľ:	Zuzana Sekeyová
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0031/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6.097,- €

Dosiahnuté výsledky:

Sérologickými a molekulárne biologickými metódami sa nám podarilo potvrdiť bakteriálny pôvod rôznych ochorení (spôsobených patogénmi typu: Rickettsia, Bartonella, Borrelia, Coxiella, Anaplasma, Franciscella) v sérach pacientov, ktorí boli hospitalizovaný v rôznych oblastiach Slovenska, s ťažkými klinickými prejavmi ochorenia, pôvodne s označením „neznámej etiológie“.

Prítomnosť celosvetovo nedávno objavenej baktérie Bartonella elisabethae sme dokázali na Slovensku po prvý krát. Ďalšie dve unikátne baktérie, Arsenophonus nasoniae (endosymbiont osičky Nasonia vitripennis) a Ehrlichia muris sme dokázali po prvý krát nie len na našom území, ale i v celo Európskom meradle. Dôkaz Rickettsia Africae je tiež unikátnym výsledkom na Slovensku, zjavne sa k nám uvedená baktéria dostala vďaka zťahovavým vtákom z Afrického kontinentu.

Vedecké výstupy:

Sekeyova, Zuzana; Subramanian, Geetha; Mediannikov, Oleg; Quevedo Diaz, Marco; Nyitray, A; Blaskovicova, Hana; Raoult, Didier: Evaluation of clinical specimens for Rickettsia, Bartonella, Borrelia, Coxiella, Anaplasma, Franciscella and Diplorickettsia positivity using serological and molecular biology methods.
FEMS Immunol Med Microbiol 64 (2012) 82–91. IF: 2,494

Zuzana Sekeyová, Oleg Mediannikov, Véronique Roux, Geetha Subramanian, Eva Špitalská, Jano Kristofík, Alžbeta Darolová, Didier Raoult: Identification of Rickettsia africae and Wolbachia sp. in Ceratophyllus garei fleas from a passerine birds migrated from Africa.
Vector Borne Zoonotic Dis. 2012 Jul;12(7):539-43. IF: 2.437

Sekeyová Z, Mediannikov O, Subramanian G, Kowalczewska M, Quevedo-Diaz M, Kocianová E, Raoult D.: Isolation of Rickettsia helvetica from ticks in Slovakia. Acta Virol. 2012;56(3):247-52. IF: 0.682

Mediannikov O, Subramanian G, Sekeyova Z, Bell-Sakyi L, Raoult D.: Isolation of Arsenophonus nasoniae from Ixodes ricinus ticks in Slovakia. Ticks Tick Borne Dis. 2012 Dec;3(5-6):367-70. IF: 2.370

Subramanian G, Sekeyova Z, Raoult D, Mediannikov O.: Multiple tick-associated bacteria in Ixodes ricinus from Slovakia. Ticks Tick Borne Dis. 2012 Dec;3(5-6):406-10. IF: 2.370

Sekeyová Z., Subramanian O., Medianninkov O., Špitalská E., Kocinová E., Raoult D.: Reemerging of tick associated bacteria in Slovakia. Postersession „Late Breaking News“ LB 2806, London, Unined Kongdom, 31 – 03. April 2012
Usporiadateľ: ESCMID - prednáška

Kocianová E., Sekeyová Z., Špitalská E.: Patogénne rickettsiae cirkulujúce v prírodných ohniskách na Slovensku. XI. Červenkove dni preventívnej medicíny s medzinárodnou účasťou, Banská Bystrica, 9. – 11. mája 2012
Usporiadateľ: Slovenská epidemiologická a vakcinologická spoločnosť SLP - prednáška

18.) Aplikácia magnetických mikročastíc s kovalentne naviazaným proteolytickým enzýmom a hmotnostnej spektrometrie na identifikáciu povrchovo – asociovaných proteínov Coxiella burnetii

(Application of magnetic microspheres covalently bound proteolytic enzyme and mass spectrometry on surface-associated protein identification of Coxiella burnetii)

Zodpovedný riešiteľ:	Ľudovít Škultéty
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0156/11

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 10.709,- €

Dosiahnuté výsledky:

Použili sme tri rôzne proteomické prístupy založené na: izolácii bázických proteínov, detergentovej extrakcii pomocou Tritonu X -114 a tvorbe sferoplastov pomocou enzýmového mikroreaktora nesúceho trypsín. Viac ako 4 násobné obohatenie o povrchovo lokalizované proteíny bolo dosiahnuté pomocou prístupu, s ktorým sa izolovali bázické proteíny s využitím IEF v kvapalnom médiu. Naopak, s protokolom na prípravu sféroplastov pomocou enzýmových mikroreaktorov sa získali izoláty, ktoré boli vo veľkej miere kontaminované cytoplazmatickými proteínami. Tieto stratégie viedli k identifikácii 196 proteínov , z ktorých 39 bolo predikovaných ako OMPy a lipoproteíny, 17 ako efektorové proteíny a proteíny sekréčneho systému IV a mnoho síce cytoplazmatických proteínov, pri ktorých ale bola preukázaná asociácia s povrchom v dôsledku tvorby komplexov s povrchovými proteínami.

Porovnaním celobunečných lyzátov C. burnetii vo fáze I a fázy II sme odhalili proteíny súvisiace so syntézou lipopolysacharidov. Následne sme preto venovali pozornosť predikcii syntézy unikátneho cukru virenózy .

Vedecké výstupy:

1. Flores-Ramirez, G., Janecek, S., Miernyk, J.A., Skultety, L. In silico biosynthesis of virenose a methylated deoxy-sugar unique to Coxiella burnetii lipopolysaccharides. Proteome Science, 2012, 10 (1), 67. DOI:10.1186/1477-5956-10-67.

19.) Variabilita vnútrobunkových baktérií vo vzťahu k rôznym druhom kliešťov vo vybraných biotopoch

(Variability of intracellular bacteria in correlation to different tick species in chosen biotopes)

Zodpovedný riešiteľ:	Eva Špitalská
Trvanie projektu:	1.1.2009 / 31.12.2012
Evidenčné číslo projektu:	2/0065/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	Vega: 6.275,- €

Dosiahnuté výsledky:

Sledovaním rastu získaného izolátu R. raoultii z kliešťa D. marginatus prostredníctvom qPCR sme ukázali, že maximum pomnoženia bol na 7. resp. 8. deň po infekcii Vero, resp. L929 buniek. R. raoultii sa dobre množila i vo všetkých orgánoch morčiat, s najväčšou infekciou v slezine, pečeni a srdci.

U 368 D. marginatus a 421 D. reticulatus zozbieraných z vegetácie i hostiteľov (ovce, kozy, kone, psy) sme zistili prevalenciu dvoch druhov rickettsií. R. raoultii-infekcia bola potvrdená u 8.1–8.6%

D. marginatus a 22.3–27% D. reticulatus. Prevalencia R. slovaca bola zaznamenané u 20.6–24.3% D. marginatus a 1.7–3.4% D. reticulatus.
Porovnali sme infikovanosť kliešťov rickettsiami v lokalitách často a menej často navštevovaných ľuďmi za účelom rekreácie. Lokality boli situované v nadmorských výškach 150, 400, 600, 800 a 1000 m n.m. Z 1338 I. ricinus testovaných kliešťov bolo rickettsia-pozitívnych 6.9% nymf, 10.9% samíc a 9.3% samcov. Infikované kliešte boli zozbierané vo všetkých nadmorských výškach. Sekvenovanie vybraných vzoriek potvrdilo, že 89.5% bolo infikovaných s R. helvetica a zvyšok bola Can. Rickettsia sp. IRS4. Kliešte infikované s R. helvetica boli zozbierané vo všetkých nadmorských výškach a kliešte s Can. Rickettsia sp. IRS4 z výšky 150 m n.m. Oba druhy rickettsií vyskytujúcich sa v I. ricinus kliešťoch na Slovensku v rôznych nadmorských výškach sú patogénne pre človeka.

Vedecké výstupy:

Špitalská, E. – Štefanidesová, K. – Kocianová, E. – Boldiš, V. Rickettsia slovaca and Rickettsia raoultii in Dermacentor marginatus and Dermacentor reticulatus ticks from Slovak Republic. In Exp Appl Acarol, 2012, 57, 189–197.

Špitalská, E – Mydlová, L – Tarageľová, V. Vertikálna distribúcia rickettsií na Slovensku. In: X. ČESKÉ A SLOVENSKÉ PARAZITOLOGICKÉ DNI. Program & Zborník abstraktov. - Brno : Masarykova Univerzita, 2012, p. 95.

20.) Štruktúrna a funkčná analýza nových kandidátov do vakcín proti kliešťom
(Structural and functional analysis of new candidates of anti-tick vaccines)

Zodpovedný riešiteľ:	Iveta Štibrániová
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	2/0163/10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8.061,- €

Dosiahnuté výsledky:

Pripravili sme rekombinantný AVD-GST proteín, ktorý sme použili na sledovanie imunogénneho potencialu AV-PDI. Otestovali sme rôzne imunizačné schémy((5ug/ml, 10ug/ml, 50ug/ml, 100ug/ml a 200ug/ml AVD-GST na myš, subkutánne a intraperitoneálne podanie), pri všetkých sa nám potvrdila schopnosť AVD-GST navodiť silnú protilátkovú odpoveď. Avšak imunizácia experimentálnych zvierat (10 ks Balb/c a 10ks ICR myší) s dvoma rôznymi koncentráciami antigénu (50ug/ml a 100ug/ml pre Balb/c a 100ug/ml a 200ug/ml pre ICR) neviedla k inhibičnému účinku na cicanie kliešťov Rhipicephalus appendiculatus, Amblyomma variegatum a Ixodes ricinus, ich nymfálne (20ks/myš)aj dospelé štádium (2ks/myš). Efekt sa neprejavil signifikantne ani na dĺžke cicania, ani na počte úspešne nacicaných kliešťov, neboli významné rozdiely ani v hmotnosti kliešťov cicajúcich na imunizovaných a neimunizovaných zvieratách. Supresivný efekt sa neprejavil následne ani v metamorfóze do plna cicajúcich kliešťov a v prípade dospelých samíc nemala imunizácia hostiteľov vplyv na znášku vajec. Pri sledovaní vplyvu imunizácie na prenos patogénu na hostiteľa alebo medzi spolucicajúcimi kliešťami sa taktiež neprejavil inhibičný efekt imunizácie hostiteľa s AVD-GST. Pravdepodobne to súvisi s existenciou viacerých PDI molekúl, vzájomne

spolupracujúcich, kde inhibícia ich účinku pravdepodobne vyžaduje aj ich spoločné blokovanie, alebo nami indukované protilátky nie sú schopné blokovať funkčné domény AV-PDI. Z dôvodu nekvalitného chovu inbredných Balb/c myší sa nám nepodarilo zachovať produkciu monoklonových protilátok nami pripravených hybridómov počas selekčného tlaku HAT a HT média.
Našim ďalším kandidátom do proti-kliešťovskej vakcíny je CXCL8-viažuca molekula. Metódou afinitnej chromatografie na pevnom nosiči sa nám podarilo izolovať z extraktov slinných žliaz samíc kliešťa D. reticulatus látku/látky schopné viazať ľudský CXCL8. Vytesnenia sme odsoľovali pomocou hydrofóbnej HPLC chromatografie/SPE ENVI C18, a to postupným acetonitrilovým gradientom (20%, 30% a 50%). Pomocou 20% ACN sme identifikovali jeden pík aktívnych frakcií, kým u vytesnení 30% a 50% ACN po 2 píky aktívnych frakcií. Zdokonalili sme metódu purifikácie CXCL8 viažucej látky, ktorá je ďalším kandidátom do protikliešťovskej vakcíny. Napriek tomu v purifikáte detegujeme prítomnosť viacerých látok čo nám sťažuje MALDI analýzu.
V spolupráci s VEGA projektom: „Úloha kliešťov v šírení gamaherpesvírusov v prírode“, sme ako prví detegovali schopnosť tvrdých kliešťov Ixodes ricinus prenášať po umelom infikovaní myšací gammaherpesvírus 4, MuHV4, na experimentálne zvieratá. Taktiež sa nám potvrdil transštadiálny prenos a schopnosť MuHV4 infikovať tkanivá kliešťa, podmienky nevyhnutné pre zaradenie vírusu medzi arbovírusy.Výsledky sumarizujeme v publikácii podanej do PLOSPathogen, momentálne v recenznom konaní:

Vedecké výstupy:
Valeria Hajnická, Marcela Kúdelová, Mirko Slovak, Zuzana Halásová, Iveta Štibrániová, Anna Chalúpková, Rosie Hails, Patricia A. Nuttall* : "Tick-borne transmission of a herpesvirus", PLOSPathogen (in submission)

Štibrániová I., Halásová Z., Slovák , M., Kúdelová M., Hajnická V. : Experimentálny prenos MuHV4, nového DNA vírusu, kliešťami Ixodes ricinus, XIII. Prowazkove dni, 25-26.10.2012, Komárno, Zborník abstraktov, s. 22-23

Podoláková Darina, Štibrániova Iveta, Mydlová Lenka, Svitálková Zuzana, Kazimírová Maria: Ochranné účinky proteínov 64P a AvPDI proti kliešťovi Ixodes ricinus(Acari: Ixodida) a prenosu spirochéty Borrelia afzelii., Zoológia 2012, 18. Feriancove dni, 22-24.nov.2012, Zvolen, Zborník abstraktov, s. 142-143

Kazimírová Mária, Podoláková Darina, Štibrániová Iveta, Slovák Mirko: Vakcíny proti kliešťom: Súčasné trendy vo vývoji. Zoológia 2012, 18. Feriancove dni, 22-24.nov.2012, Zvolen, Zborník abstraktov, s. 76-77

21.) Tranzientná expresia cudzorodých génov v rastlinách pomocou vektora na báze vírusu šarky slivky

(Transient expression of foreign genes in plants using a plum pox virus-based vector)

Zodpovedný riešiteľ:	Zdeno Šubr
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	2/0008/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA : 5.633,- €

Dosiahnuté výsledky:

Na prípravu vírusového vektora na báze vírusu šarky slivky (PPV) sme použili cDNA konštrukt NSP9, čo je chimérická medzikmeňová forma PPV, skladajúca sa z väčšej časti z genómu slovenského izolátu BOR-3 (PPV-Rec), dve genómové oblasti pochádzajú z izolátu R (PPV-D). Medzi gény NIb a CP bol vložený klonovací linker (EagI-KpnI) ohraničený sekvenciami kódujúcimi aminokyselinový kontext rozoznávaný vírusovou proteázou NIa-pro. Takýto konštrukt umožňuje in-frame klonovanie a expresiu cudzorodých génov za vzniku voľných proteínov. Skrátením linkera o štiepne miesto pri CP sme získali konštrukt umožňujúci väzbu peptidu na N koniec CP, a teda prezentáciu epitopov na povrchu pseudovírusových častíc. Cielenou mutagenézou sme u oboch konštruktov zmenili oblasť v géne CP kódujúcu motív DAG esenciálny pre prenos vírusu voškami na VTG, čím sme zabezpečili ich biologickú bezpečnosť elimináciou prípadného rizika nechceného prenosu hmyzom. Neprenosnosť voškami sme overili biologickým experimentom.

Navrhli sme primery a úspešne sme amplifikovali viaceré gény z rôznych organizmov: proteíny včelej materskej kašičky MRJP3 a MRJP5, malý heat-shock proteín Cronobacter Sakazakii, časť kapsidového proteínu vírusu mozaiky lucerny, dva proteíny vírusu chrípky (neuraminidáza a replikáza). Jednotlivé ampliméry sme klonovali do príslušných konštruktov a pripravili ich tak na testovanie expresie v rastlinách.

Vedecké výstupy:

Kamencayová M., Šubr Z. (2012): Preparation of vectors based on the genome of Plum pox virus PPV-Rec for heterologous gene expression in plants. Acta fytotechnica et zootechnica 15, special number, 24-26

Predajňa, L., Nagyová, A., Glasa M., Šubr, Z. (2012): Cloning of the complete infectious cDNA of the Plum pox virus strain PPV-Rec. Acta Virologica 56, 135-138

Kamencayová M., Šubr Z. (2012): Preparation of vectors based on the genome of Plum pox virus PPV-Rec for heterologous gene expression in plants. XIXth Slovak and Czech Plant Protection Conference, September 5-7, 2012, Nitra, Slovakia. Proceedings of Abstracts (p 145)

22.) Úloha karbonickej anhydrázy IX v bunkovej migrácii ako zložke metastatickej kaskády

(The role of carbonic anhydrase IX in cell migration as a part of metastatic cascade)

Zodpovedný riešiteľ:	Eliška Švastová
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0130/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Veľká Británia: 3
Čerpané financie:	VEGA: 8.773,- €

Dosiahnuté výsledky:

Zistili sme, že hepatocytový rastový faktor (HGF), ktorý je významným regulátorom bunkovej migrácie, indukuje expresiu CA IX na transkripčnej úrovni a stimuluje relokaliáciu proteínu CA IX do lamelipódií pohybujúcich sa buniek. Tieto výsledky ukazujú, že kľúčová dráha migrujúcich buniek aktivovaná prostredníctvom HGF komunikuje s dráhou, v ktorej je zapojený proteín CA IX a naznačuje, že CA IX je súčasťou molekulárnej signalizácie, ktorá ovláda migračný aparát buniek a tým prispieva k nádorovej progresii.

Vedecké výstupy:

Svastova E, Witarski W, Csaderova L, Kosik I, Skvarkova L, Hulikova A, Zatovicova M, Barathova M, Kopacek J, Pastorek J, Pastorekova S. Carbonic anhydrase IX interacts with bicarbonate transporters in lamellipodia and increases cell migration via its catalytic domain. J Biol Chem. 2012 Jan 27;287(5):3392-402.

Kapitola v monografii:
Svastova E, Pastorekova S. Hypoxia, regulation of pH and cell migration/invasion. In: Tumour Hypoxia: Molecular Mechanisms and Clinical Implications (Pastorekova S, Kopacek J, Eds.) Veda, SAS Publishing House Bratislava and Peter Lang, GmbH, Frankfurt am Main 2012, 285-298.

Svastova E, Csaderova L, Witarski W, Hulikova A, Zatovicova M, Barathova M, Skvarkova L, Kopacek J, Pastorek J, Pastorekova S. The role of CA IX in cell migration and invasion. The 9th International Conference on Carbonic Anhydrase, Antalya, Turkey, April 11-15, 2012, Book of Abstracts, p.40.

Csaderova L, Hulikova A, Zatovicova M, Barathova M, Skvarkova L, Kopacek J, Pastorek J, Pastorekova S, Svastova E. CA IX-induced changes in migration-related cell parameters. The 9th International Conference on Carbonic Anhydrase, Antalya, Turkey, April 11-15, 2012, Book of Abstracts, p.95.

Svastova E, Csaderova L, Witarski W, Barathova M, Skvarkova L, Ditte P, Kopacek J, Pastorek J, Pastorekova S. CA IX involvement in lamellipodial protein machinery necessary for cell migration. Ion Transport and Cancer, Wurzburg, Germany, September 9-12, 2012. Book of Abstracts, p.24.

23.) 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:	nie
Koordinátor:	Molekulárno-medicínske centrum SAV
Počet spoluriešiteľských inšt.	1
Čerpané financie:	0

Dosiahnuté výsledky:

Výsledky: V rámci klinickej časti projektu sme analyzovali tkanivové vzorky získané od pacientov s primárnym kolorektálnym nádorom. V spomínaných vzorkách sme sledovali expresiu CA IX prostredníctvom imunoblotingu a imunohistochémie, pričom sme využili naše poznatky a metodické postupy získané počas riešenia predchádzajúceho VEGA projektu zameraného na nádory obličiek. Vzhľadom na skutočnosť, že sme si za jeden z cieľov projektu stanovali porovnanie expresie CA IX s markermi progresie a metastázovania, pristúpili sme k selekcii vhodných protilátok namierených voči proteínom Cox-2 a c-Met , ktoré by boli aplikovateľné v oboch detekčných metódach. V rámci analýzy regulácie expresie CA IX v kolorektálnych nádoroch sme sa zamerali na analýzu promótorovej aktivity génu CA9 a na vybrané transkripčné faktory resp. relevantné proteíny z príslušných signálnych dráh, ktoré sa podieľajú na iniciácii ako aj progresii kolorektálnych nádorov.

Vedecké výstupy:

Bartošová M., Škvarková L., Zaťovičová M., Vidličková I., Csáderová l., Barátková M., Breza J., Bujdák P., Pastorek J., Breza J Sr., Pastoreková S., Takáčová M. Comparative study of CA IX as a tumor tissue versus circulating blood biomarker. In The 9th International Conference on Carbonic Anhydrase (CA): Book of abstracts. Antalya, 2012, p. 96.

Takáčová M., Bartošová M., Škvarková L., Zaťovičová M., Vidličková I., Breza J., Pastorek J., Pastoreková S. Evaluation of clinical significance of carbonic anhydrase IX as a tumor tissue versus cirkulating blood biomarker. In Wimmerová M., Žídek L., Pokorná M. XXIII.biochemický sjezd České společnosti pro biochemii a molekulární biologii a Slovenskej spoločnosti pre biochemiu a molekulárnu biológiu. Brno: JPM Tisk s.r.o, 2012, p. 173. ISBN 978-80-86313-34-4.

Takacova M., Bartosova M., Skvarkova L., Zatovicova M., Vidlickova I., Csaderova L., Barathova M., Breza J. Jr., Bujdak P., Pastorek J., Breza J. Sr., Pastorekova S. Carbonic anhydrase IX is a clinically significant tissue and serum biomarker associated with renal cell carcinoma. Oncology Letters 5: 191-197, 2013. Epub 2012 Oct 26

24.) Lipopolysacharidy z Coxiella burnetii a Piscirickettsia salmonis. Štúdium ich chemickej štruktúry a biologickej aktivity v patogenéze a imunite Q horúčky a piscirickettsiózy
(Lipopolysaccharides of Coxiella burnetii and Piscirickettsia salmonis. Studies on their chemical structures and biological activities in pathogenesis and immunity of Q fever and piscirickettsiosis)

Zodpovedný riešiteľ:	Rudolf Toman
Trvanie projektu:	1.1.2012 / 31.12.2015
Evidenčné číslo projektu:	2/2026/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6.425,- €

Dosiahnuté výsledky:

Získali sme experimentálne dôkazy o tom, že lipopolysachrid (LPS) virulentných buniek Coxiella burnetii znefunkčňuje signalizáciu smerovania buniek patogénu do degradatívneho prostredia hostiteľského fagolysozómu a tým umožňuje baktérii prežiť a rozmnožovať sa v tzv. parasitofórnej vakuole hostiteľských buniek. Je to významný poznatok v detailnejšom objasňovaní životného cyklu tejto vysokoinfekčnej, intracelulárnej baktérie.
Uskutočnili sa základné chemické analýzy zloženia LPS izolovaného z Piscirickettsia salmonis. Zistili sme, že obsahuje okrem bežných sacharidov, ktoré sú prítomné aj v iných LPS Gram-negatívnych baktérií aj pseudoamínovú kyselinu. Zatiaľ sa prítomnosť tejto kyseliny v iných LPS nepotvrdila.

Vedecké výstupy:

Toman, Rudolf – Heinzen, Robert A.- Samuel, James E.- Mege, Jean-Louis. Coxiella burnetii: Recent advances and new perspectives in research of the Q fever bacterium. Springer, 2012, ISBN: 978-94-007-4314-4.

Narasaki, Craig T. – Toman, Rudolf. Lipopolysaccharide of Coxiella burnetii. In Coxiella burnetii: Recent advances and new perspectives in research of the Q fever bacterium. R. Toman, R. A. Heinzen, J. E. Samuel, J. L. Mege Eds. Springer, 2012, pp. 65-90, ISBN: 978-94-007-4314-4.

Ihnatko, Robert – Shaw, Edward – Toman, Rudolf. Proteome of Coxiella burnetii. In Coxiella burnetii: Recent advances and new perspectives in research of the Q fever bacterium. R. Toman, R. A. Heinzen, J. E. Samuel, J. L. Mege Eds. Springer, 2012, pp. 105-130, ISBN: 978-94-007-4314-4.

Hanczaruk, Matthias – Cutler, Sally J. - Toman, Rudolf – Frangoulidis, Dimitrios. Coxiella burnetii: Q fever. In BSL3 and BSL4 agents. Epidemiology, microbiology, and practical guidelines. M.C. Elschner, S. J. Cutler, M. Weidmann, P. Butaye Eds. WILEY-BLACKWELL, 2012, pp. 57-69, ISBN: 978-3-527-31715-8.

Maina, Alice N. – Speck, Stephanie – Spitalska, Eva – Toman, Rudolf – Dobler, Gerhard – Cutler, Sally J. Rickettsia species: Rickettsioses. In BSL3 and BSL4 agents. Epidemiology, microbiology, and practical guidelines. M. C. Elschner, S. J. Cutler, M. Weidmann, P. Butaye Eds. WILEY-BLACKWELL, 2012, pp. 123-148, ISBN: 978-3-527-31715-8.

Toman, R. – Vadovic, P. – Palkovicova, K. - Frangoulidis, D. New developments in detection and functional analysis of Coxiella burnetii – the etiological agent of Q fever. In 9th International Conference on Innate Immunity, June 23-28, 2012, Rhodes, Greece, Book of Abstracts, p. 52.

25.) Identifikácia bunkových proteínov ovplyvnených perzistentnou infekciou vírusom lymfocytárnej choriomeningitídy

(Identification of the cellular proteins affected by persistent infection with lymphocytic choriomeningitis virus)

Zodpovedný riešiteľ:	Jana Tomášková
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0128/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5.572,- €

Dosiahnuté výsledky:

Experimentálne údaje naznačujú, že proteíny LCMV môžu počas perzistentnej infekcie priamo, či nepriamo ovplyvňovať regulačné procesy v bunke a meniť niektoré bunkové funkcie, ktoré nie sú potrebné pre jej prežitie, ale sú nevyhnutné pre udržanie homeostázy v organizme. Porovnaním proteínového profilu HeLa buniek perzistentne infikovaných MX kmeňom vírusu LCM a neinfikovaných HeLa buniek sme identifikovali 23 bunkových proteínov, ktorých expresia sa počas infekcie signifikantne mení. Taktiež sme zistili, že v skupine pacientov s nádorom obličiek je výskyt anti-LCMV protilátok oveľa častejší ako u zdravej populácie a detekciou vírusového NP v tkanivách sme potvrdili prítomnosť perzistentného LCMV v ľudských orgánoch.

Vedecké výstupy:

Lapošová K., Tomášková J. Vírus lymfocytovej choriomeningitídy-podceňovaný patogén, 1.časť; Slovenský lekár 2012, ročník 22 (36) , č. 9-10, str. 14-21

Lapošová K., Tomášková J. Vírus lymfocytovej choriomeningitídy-podceňovaný patogén, 2.časť; Slovenský lekár 2012, ročník 22 (36) , č. 11-12, str. 45-52

Lapošová, Katarína - Lukáčiková, Ľubomíra - Ovečková, Ingrid - Pastoreková, Silvia - Tomášková, Jana. Štúdium LCMV u pacientov s nádorom obličiek. In Siedme ivanské dni mladých biológov : Program a abstrakty. - Ivanka pri Dunaji, 2012, s. 13.

Lapošová, Katarína - Lukáčková, Ľubomíra - Ovečková, Ingrid - Breza, J. - Pastoreková, Silvia - Tomášková, Jana. Prevalence of LCMV in patients with renal carcinoma. In Folia Medica Cassoviensia : odborný časopis pre lekárske, farmaceutické a biologické vedy, 2012, vol. 67, no. 1, p.98-99, Suppl. 1. ISSN 1337-7817

Lukáčiková, Ľubomíra - Ovečková, Ingrid - Lapošová, Katarína - Pastoreková, Silvia - Pastorek, Jaromír - Tomášková, Jana. Antiviral effect of interferon lambda against lymphocytic choriomeningitis virus. In Folia Medica Cassoviensia : odborný časopis pre lekárske, farmaceutické a biologické vedy, 2012, vol. 67, no. 1, p. 99-100 Suppl. 1. ISSN 1337-7817.

26.) Medzidruhový prenos vírusov chrípky A a imunita

(Interspecies transmission of influenza A viruses and immunity)

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.1.2012 / 31.12.2014
Evidenčné číslo projektu:	2/0176/12
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8.926,- €

Dosiahnuté výsledky:

Porovnali sme protektívny účinok indukovaný konzervatívnymi peptidmi HA vírusu chrípky v purifikovanej forme a po ich inzercii do detoxifikovaného adenylát cyklázového toxínu (toxoid) produkovaného baktériou Bordetella pertussis (CyaA). CyaA slúži ako vektor na doručenie vložených peptidov pre ich prezentáciu imunokompetentným bunkám a umožňuje ich prezentáciu na MHCI komplexe T-bunkám s následnou stimuláciou špecifických cytotoxických T-buniek a zároveň aj prezentáciu na MHCII molekulách s následnou stimuláciou špecifickej protilátkovej odpovede. Obe formy imunogénu indukovali protektívny účinok voči letálnej infekcii nielen ľudským, ale aj vysokopatogénnym vtáčím vírusom chrípky subtypu H7. Protektivita indukovaná týmito imunogénmi bola porovnateľná v prípade infeckie vírusom chrípky homológneho H3 subtypu, avšak v prípade infeckie vírusom chrípky vtáčieho pôvodu H7 subtypu, protektívny účinok sa výrazne zvýšil po vložení HA peptidov do CyaA vektora. Zvýšená heteroprotektivita indukovaná s HA2-CyaA toxoidom bola pripísaná príspevku antigén špecifických cytotoxických T-buniek, ktorých aktiváciu sme dokázali metódou ELISPOT po imunizácii s týmto imunogénom. Je to prvá krížovo-protektívna HA2- vakcína proti chrípke, ktorá stimuluje protilátkovú aj bunkovú imunitu, hoci ako imunogén bol použitý protein a nie živý vírus.

Vedecké výstupy:

Staneková, Zuzana - Mucha, Vojtech - Sladková, Tatiana - Blaškovičová, H. - Kostolanský, František - Varečková, Eva. Epitope specificity of anti-HA2 antibodies induced in humans during influenza infection. In Influenza and Other Respiratory Viruses, 2012, vol. 6, no. 6, p. 389 - 395. (4.157 - IF2011). (2012 - Current Contents). ISSN 1750-2640.Typ: ADCA

Staneková, Zuzana - Adkinis, I. - Kosová, M. - Janulíková, Jana - Sebo, P. - Varečková, Eva. Heterosubtypic protection against influenza induced by adenylate cyclase toxids delivering conserved HA2 subunit of hemagglutinin. In Antiviral Research, 2012, vol., no, p., 2012 Oct 2.[Epub ahead of print]. (4.301 - IF2011). (2012 - Current Contents). ISSN 0166-3542.Typ: ADCA
Publikácie v domácich časopisoch evidovaných v CC:

Janulíková, Jana - Staneková, Zuzana - Mucha, Vojtech - Kostolanský, František - Varečková, Eva. Two distinct regions of HA2 glycopolypeptide of influenza virus hemaglutinin elicit cross-protective immunity against influenza. In Acta Virologica : international journal, 2012, vol. 56, no. 3, p. 169 - 176. (0.682 - IF2011). (2012 - Current Contents). ISSN 0001-723X.Typ: ADDA

Vareckova E., Janulikova J., Stanekova Z., Mucha V. Kostolansky F.: Cross-protection against influenza A infection induced by conserved peptides of influenza A haemagglutinin. Poster 128, Influenza Vaccines for the World, 9-12 October 2012, Valencia, Spain

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: 9.128,- €

Dosiahnuté výsledky:

Hlavným zámerom projektu je objasniť reguláciu mechanizmu uvoľňovania ektodomény karbonickej anhydrázy IX (ECD) a zistiť funkciu ECD CA IX v medzibunkových interakciách. V prvom roku riešenia projektu sme zisťovali, či priebeh uvoľňovania ECD ovplyvňuje prítomnosť inhibítorov karbonických anhydráz a niektorých chemoterapeutík. Zistili sme, že acetazolamid zvyšuje uvaľňovanie ECD CA IX. Opracovávanie buniek doxorubicínom taktiež viedlo k zvýšeniu hladiny solubilnej formy CA IX za normoxických a tiež hypoxických podmienok, pričom inkubácia buniek v prítomnosti cisplatiny nespôsobila zvýšenie odštiepovania ECD CA IX. Získané poznatky nájdu uplatnenie pri optimalizácii nádorovej terapie so zreteľom na povrchovú hustotu CA IX na nádorových bunkách. Doterajšie výsledky boli publikované formou posterov a publikácia je v štádiu prípravy.

Vedecké výstupy:

Zatovicova M, Vidlickova I, Supalova L, Dequiedt F, Ditte P, Pastorek J, Pastorekova S. Shedding of CA IX ectodomain in response to cell death. The 9th International Conference on Carbonic Anhydrase, Antalya, Turkey, April 11-15, 2012, Book of Abstracts, p.86.

Vidlickova I, Zatovicova M, Tothova V, Levarski Z, Stuchlik S, Patorekova S. Preparation of carbonic anhydrase IX ectodomain. XXIII. Biochemický zjazd ČSBMB a SSBMB, Brno, 26.-29.8.2012, Zborník prednášok a posterov, p.179.

Zatovicova M, Vidlickova I, Supalova L, Dequiedt F, Ditte P, Patorek J, Pastorekova S.Induction of tumor cell death by cytotoxic compound is associated with shedding of the hypoxia-related carbonic anhydrase IX. XXIII. Biochemický zjazd ČSBMB a SSBMB, Brno, 26.-29.8.2012, Zborník prednášok a posterov, p.183.

Vidličková I, Zaťovičová M, Šupalová L, Ditte P, Dequiedt F, Pastorek J, Pastoreková S. Vplyv bunkovej smrti na mieru odštiepovania ektodomény CA IX z povrchu nádorových buniek. XXIII. Izakovičov memoriál, Bratislava, 26.-28. 9. 2012, Program a zborník abstraktov, p. 60.

Vidličková I, Zaťovičová M, Tóthová V, Pastoreková S. Príprava rekombinantnej ektodomény karbonickej anhydrázy IX. Študentská vedecká konferencia PriF UK 2012, Bratislava, 25. 4. 2012, Zborník recenzovaných príspevkov, p. 753.

28.) Vplyv hypoxie na replikáciu herpesvírusov

(Effect of hypoxia on replication of herpesviruses)

Zodpovedný riešiteľ:	Vladimír Zelník
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	2/0134/11
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5.118,- €

Dosiahnuté výsledky:

Vypracovali sme metódy PCR s citlivosťou 1-5 kópií genómu na detekciu vírusu Epsteina-Barrovej (EBV) a Myšieho herpesvírusu (MuHV4) a kvantifikovali počet kópií genómu EBV a MuHV4 v nádorových líniách Raji a NB78. V bunkovej línii Raji kultivovanej počas normoxie a hypoxie sme pomocou PCR a reverznej transkripcie (RT) PCR identifikovali v hypoxii nárast replikácie EBV a expresie niektorých vírusových génov associovaných s latenciou a odlišnosti v expresii niektorých bunkových génov (VEGF a Glut-1) v porovnaní s normoxiou.

Vedecké výstupy:

Zelnik, V., Takacova, M., Lapunikova, B., Vozarova, Y., Kopacek, J. (2012) Effect of Hypoxia on Replication of Oncogenic Herpesviruses and Gene Expression of the Virus and Host Cells: an Overview. Detection and quantification of HVT. 21st Annual Meeting of Society for Virology, Freiburg, Germany. 9th International Symposium on Marek's disease and Avian Herpesviruses. Berlin, Germnany. p. 63.

Programy: APVV

29.) Identifikácia molekulových dráh riedených prostrednícstvom hypoxia-indukovanej anhydrázy IX kyseliny uhličitej v nádorových bunkách

(Identification of the molecular pathways driven by hypoxia-induced carbonic anhydrase IX in tumor cells)

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0108-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 63.996,- €

Dosiahnuté výsledky:

V roku 2012 sme uskutočnili genomickú analýzu nádorových buniek HT-1080, v ktorých bola pomocou RNA interferencie potlačená expresia proteínu CA IX. Zistili sme, že strata CA IX vedie k modulácii viacerých signálnych dráh, vrátane dráhy zapojenej do kontroly fokálnej adhézie, ktorá významným spôsobom ovplyvňuje schopnosť nádorových buniek migrovať a invadovať. Potvrdili sme, že neprítomnosť CA IX je spojená so zníženou expresiou viacerých molekulárnych komponentov tejto dráhy, s inhibíciou schopnosti buniek adherovať na pevný podklad a so zníženou migračnou kapacitou. Tieto výsledky podporili aktívnu úlohu CA IX vo fokálnej adhézii a odhalili tak jeden z dôležitých molekulárnych mechanizmov, prostredníctvom ktorého CA IX prispieva k nádorovému fenotypu.

Vedecké výstupy:
Publikácia je v tlači a bude uverejnená v roku 2013.

Radvak P, Repic M, Svastova E, Takacova M, Csaderova L, Pastorek J, Pastorekova S, Kopacek J. Signal transduction pathways downstream of CA IX. The 9th International Conference on Carbonic Anhydrase, Antalya, Turkey, April 11-15, 2012, Book of Abstracts, p.94.

Radvak P, Svastova E, Takacova M, Csaderova L, Pastorek J, Pastorekova S. Kopacek J. Expression profiling of CA IX depleted fibrosarcoma cells. Invited lecture, Meeting of the COST action TD0901 HypoxiaNet, Bilbao, April 18-20, 2012, Book of Abstracts, p.26.
Radvák P, Repič M, Švastová E, Takáčová M, Caderová L, Pastorek J, Pastoreková , Kopáček J. Bunkové signálne dráhy ovplyvnené expresiou karbonickej anhydrázy IX. XXIII. Biochemický zjazd ČSBMB a SSBMB, Brno, 26.-29.8.2012, Zborník prednášok a posterov, p.65.

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:	Jaromír Pastorek
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:	1 - Slovensko: 1
Čerpané financie:	APVV: 33.903,- €

Dosiahnuté výsledky:
V úvodnom období projektu sme sa zamerali na štúdium vzájomného vplyvu hypoxie a stresových hormónov v nádorových bunkách. Ukázali sme, že stresové hormóny ovplyvňujú hypoxickú reguláciu CA IX na úrovni katalytickej aktivity. Na druhej strane hypoxia ovplyvňuje expresiu receptorov pre stresové hormóny a moduluje reguláciu receptorov hormónmi, ich agonistami a antagonistami. Tieto výsledky poukazujú na to, že interakcia mediátorov hypoxického a neuroendokrinného stresu môže mať dopad na fenotyp nádorových buniek.
Výsledky zatiaľ neboli publikované.

31.) 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: 20.364,- €

Dosiahnuté výsledky:

V prvom období riešenia projektu sme uskutočnili úvodné experimenty zamerané na analýzu úlohy CA IX, jej mutantov a solubilnej ektodomény v bunkovej migrácii. Predbežné výsledky ukazujú, že CA IX aktívne ovplyvňuje bunkovú migráciu nielen pomocou regulácie pH v lamelipódiách, ale aj prostredníctvom komunikácie s inými signálnymi dráhami zapojenými v migračnej mašinérii a v bunkovom metabolizme. V spolupráci s partnerom ÚPo SAV sme otestovali dva druhy polymérnych nanočastíc obsahujúcich CA IX-špecifickú monoklonovú protilátku M75. Ukázali sme, že protilátka M75 sa uvoľňuje z nanokapsúl do kultivačného média v optimálnom časovom intervale a rozsahu pH, pričom si zachováva biologickú aktivitu.

Vedecké výstupy:

Výsledky boli prezentované na konferenciách a rukopis článku sa pripravuje.

Pastorekova S, Svastova E, Zatovicova M, Ditte P, Csaderova L, Takacova M, Kopacek J, Pastorek J. The role of HIF-inducible carbonic anhydrase IX in tumor microenvironment and approaches to its therapeutic targeting. Aegean Conferences Series: Tumor Microenvironment and Cellular Stress: Signaling, Metabolism, Imaging and Therapeutic Targets, Chania, Greece, October 4-9, 2012, Book of Abstracts, p.37.

Svastova E, Pastorekova S. Hypoxia, regulation of pH and cell migration/invasion. In: Tumour Hypoxia: Molecular Mechanisms and Clinical Implications (Pastorekova S, Kopacek J, Eds.) Veda, SAS Publishing House Bratislava and Peter Lang, GmbH, Frankfurt am Main 2012, 285-298.

Semak V, Kasák P, Vnukova D, Janikovičová L, Takáčová M, Zaťovičová M, Pastorekova S, Lacík I. Carbonic anhydrase inhibition approach based on chitosan nanoparticles. VII. Slovensko-Česká konferencia Polyméry 2012, 26.-29.11.2012, Zborník prednášok a posterov, p.92-93.

32.) Štruktúra ohnísk a vynárajúce sa choroby s dôrazom na úlohu drobných cicavcov v prírodných ohniskách urbánneho typu krajiny

(Structure of foci and emerging diseases with emphasis on role of rodents in urban type of natural foci of diseases)

Zodpovedný riešiteľ:	Michal Stanko
Zodpovedný riešiteľ v organizácii SAV:	Boris Klempa
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0267-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Parazitologický ústav SAV
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	APVV: 8.000,- €

Dosiahnuté výsledky:

V tomto roku sme v súlade s plánom projektu molekulárno biologickými metódami testovali tkanivové vzorky hlodavcov a hmyzožravcov na prítomnosť hantavírusov. Podarilo sa nám detekovať viacero nových kmeňov hantavírusu Seewis prenášaného piskormi druhu Sorex araneus. Ide o vobec prvý dôkaz tohto vírusu na území Slovenska, ako aj Česka. Rozsiahla fylogenetická analýza týchto kmeňov ukázala veľkú sekvenčnú variabilitu ukazujúcu dlhodobú, geograficky izolovanú evolúciu vírusu v sledovaných regiónoch.

Vedecké výstupy:

Schlegel, M. - Radosa, Lukáš - Rosenfeld, U.M. - Schmidt, S. - Triebenbacher, C. - Löhr, P.W. - Fuchs, D. - Heroldová, M. - Jánová, E. - Stanko, Michal - Mošanský, Ladislav - Fričová, Jana - Pejčoch, M. - Suchomel, J. - Purchart, L. - Groschup, M.H. - Krűger, D.H. - Klempa, Boris - Ulrich, R.G. Broad geographical distribution and high genetic diversity of shrew-borne Seewis hantavirus in Central Europe. In Virus Genes, 2012, vol. 45, p. 48 - 55. (1.845 - IF2011). (2012 - Current Contents). ISSN 0920-8569.

33.) Výskum faktorov hostiteľskej preferencie vírusu šarky slivky vzhľadom na reálnu variabilitu jeho populácie na území Slovenskej republiky

(Investigation on the Plum pox virus host preference factors in regard to the natural variability of its population on the territory of Slovak republic)

Zodpovedný riešiteľ:	Zdeno Šubr
Trvanie projektu:	1.5.2011 / 31.7.2014
Evidenčné číslo projektu:	APVV-0042-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 30.129,- €

Dosiahnuté výsledky:

Doplnená mapa rozšírenia kmeňov PPV potvrdila, že pôvodným kmeňom na nášom území je PPV-D na slivkách, ku ktorému neskôr pribudol PPV-Rec hlavne v západných a severných oblastiach. PPV-M je viazaný na juhozápadný región pestovania broskýň.

Pri analýze ohnísk výskytu atypických izolátov sme testovali vzorky zo sliviek a broskýň pestovaných vo vzájomnej tesnej blízkosti v produkčnom sade. Prevažná väčšina detekovaných hostiteľsky atypických izolátov pochádzala z dvojitých alebo trojitých zmiešaných infekcií s hostiteľsky typickými kmeňmi, čo potvrdzuje riziko nesprávnej klasifikácie izolátu PPV pri odbere jedinej vzorky zo stromu.

Získali sme kompletnú sekvenciu genómu piatich subizolátov PPV-M dlhodobo experimentálne udržiavaných v rôznych drevinných hostiteľoch alebo v Nicotiana benthamiana. Analýza ukázala nízku divergenciu týchto sekvencií (do 0,3 %). Najmenej aminokyselinových zmien sme zistili u vzorky z broskyne (typický hostiteľ PPV-M), najväčšie odlišnosti boli u vírusu pasážovaného opakovane v bylinnom hostiteľovi, kde adaptácia bola spojená so zmenami v génoch P1 a P3.

Medzikmeňové chiméry s rôznym fenotypovým prejavom umožnili lokalizovať faktor zodpovedný za patotyp na N. occidentalis na hranici génov P1 a HC-pro. Detailná in silico analýza a cielená mutagenéza ukázala, že rozdiely sú spôsobené zámenou jedinej aminokyseliny v pozícii 138 (arginín koreluje s miernym a tryptofán s agresívnym patotypom).

Aplikovali sme dvojhybridný systém na detekciu interakcií vírusových proteínov P1 a P3 s rastlinnými faktormi. Predbežné výsledky zahŕňajú jednak abundantné proteíny (rubisco, kalmodulín), jednak proteíny indukované stresom.

Vedecké výstupy:

Nagyová, A., Kamencayová, M., Glasa, M., Šubr Z.W. (2012): The 3'-proximal part of the Plum pox virus P1 gene determinates the symptom expression in two herbaceous host plants. Virus Genes 44: 505-512

Predajňa, L., Šubr, Z., Candresse, T., Glasa M. (2012): Evaluation of the genetic diversity of Plum pox virus in a single plum tree. Virus Research 167, 112-117

Predajňa, L., Nagyová, A., Glasa M., Šubr, Z. (2012): Cloning of the complete infectious cDNA of the Plum pox virus strain PPV-Rec. Acta Virologica 56, 135-138

Kamencayová M., Šubr Z. (2012): Preparation of vectors based on the genome of Plum pox virus PPV-Rec for heterologous gene expression in plants. Acta fytotechnica et zootechnica 15, special number, 24-26

Nagyová A., Glasa M., Šubr Z. (2012): Experimental mixed infection of woody host plants by Plum pox virus strains PPV-M and PPV-D. Acta fytotechnica et zootechnica 15, special number, 36-38

Glasa M., Prichodko Y., Zhivaeva T., Shneider Y., Predajňa L., Šubr Z., Candresse T. (2012): Complete and partial genome sequences of the unusual Plum pox virus (PPV) isolates from sour cherry in Russia suggest their classification to a new PPV strain. 22nd International Conference on Virus and Other Trandmissible Diseases of Fruit Crops, 3.-8.6. 2012, Rome, Italia. Book of Abstracts (p 37)

Nagyová A., Kamencayová M., Šubr Z.W. (2012): Mapping the pathogenicity determinants in the genome of Plum pox virus. 22nd International Conference on Virus and Other Trandmissible Diseases of Fruit Crops, 3.-8.6. 2012, Rome, Italia. Book of Abstracts (p 153)

Šubr Z.W., Predajňa L., Glasa M. (2012): Genome sequence variabi lity of a Plum pox virus isolate related to its long-time multiplication in different host species. 22nd International Conference on Virus and Other Trandmissible Diseases of Fruit Crops, 3.-8.6. 2012, Rome, Italia. Book of Abstracts (p 175)

Kamencayová M., Šubr Z. (2012): Preparation of vectors based on the genome of Plum pox virus PPV-Rec for heterologous gene expression in plants. Proceedings of Abstracts of the XIXth Slovak and Czech Plant Protection Conference, Nitra, September 5-7, 2012, p. 145

Nagyová A., Glasa M., Šubr Z. (2012): Experimental mixed infection of woody host plants by Plum pox virus strains PPV-M and PPV-D. Proceedings of Abstracts of the XIXth Slovak and Czech Plant Protection Conference, Nitra, September 5-7, 2012, p. 149

Nagyová A., Šubr Z. (2012): Infection of pea protoplasts by the Plum pox virus. Proceedings of Abstracts of the XIXth Slovak and Czech Plant Protection Conference, Nitra, September 5-7, 2012, p. 150

34.) Predikcia epidémie/pandémie chrípky typu A na základe identifikácie dominantných markerov patogenity a prenosnosti vírusu *(Prediction of influenza A virus epidemic/pandemic outcome by identifying dominant markers of viral pathogenesis and transmissibility)*

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0250-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 74.794,- €

Dosiahnuté výsledky:

Hlavným cieľom tohto projektu je nájsť faktory ovplyvňujúce virulenciu a patogenitu vírusu chrípky A (IAV), aby sme vedeli predpovedať pandemický potenciál novo sa objaveného vírusu v ľudskej populácii. Sledovali sme jednak vplyv zmenenej fuzogénnej aktvitiy IAV ako aj úlohu PB1 a PB1-F2 proteínov v patogenite vírusu. Za fúzovaciu aktivitu vírusu chrípky je zodpovedný HA2 gp hemaglutinínu, ktorý indukuje počas infekcie špecifickú protilátkovú odpoveď. Niektoré HA2 epitopy indukujú protilátky, ktoré inhibujú fúziu. Sledovali sme preto epitopovú špecifitu spektra protilátok indukovaných s HA2 gp počas chrípkovej infekcie ľudí so zameraním na protilátky, ktoré mali rovnakú epitopovú špecifitu ako anti-HA2 monoklonové protilátky inhibujúce fúziu vírusovej a bunkovej membrány. Zistili sme, že takéto protilátky sa počas prirodzenej infekcie v organizme tvoria, avšak príslušné epitopy sú slabé imunogény. Prejavnie sa inhibičného účinku týchto protilátok na replikáciu vírusu vyžaduje zvýšenie ich hladiny cielenou imunizáciou. Skonštruovali sme deličnú knižnicu PB1-F2 určenú na skríning vlastností PB-1-F2 vo vzťahu k chrípkovým a hostiteľským proteínom. Sledovali sme efekt rôznych delécií v PB1-F2 proteíne na jeho schopnosť zvýšiť vírusovú RNA-dependentnú RNA polymerázovú aktivitu. Deličné mutanty, ktoré ovplyvňujú vírusovú RNA polymerázu budú použité pre konštrukciu vírusov chrípky, ktorých virulencia a patogenetické vlastnosti sa budú porovnávať.

Vedecké výstupy:

Staneková, Zuzana - Mucha, Vojtech – Sládková, Tatiana - Blaškkovičová, H. - Kostolanský, František - Varečková, Eva. Epitope specificity of anti-HA2 antibodies induced in humans during influenza infection. In Influenza and Other Respiratory Viruses, 2012, vol. 6, no. 6, p. 389 - 395. (4.157 - IF2011). (2012 - Current Contents). ISSN 1750-2640.

Košík, Ivan - Krejnusová, Ingrid - Práznovská, Margaréta - Poláková, Katarína - Russ, Gustáv. A DNA vaccine expressing PB1 protein of influenza A virus protects mice against the virus infection. In Archives of Virology, 2012, vol. 157, no. 5, p. 811-817. (2.111 - IF2011). (2012 - Current Contents). ISSN 0304-8608.

Staneková, Zuzana - Adkins, I. - Kosová, M. - Janulíková, Jana - Sebo, P. - Varečkoová, Eva. Heterosubtypic protection against influenza induced by adenylate cyclase toxids delivering conserved HA2 subunit of hemagglutinin. In Antiviral Research, 2012, vol., no, p., 2012 Oct 2.[Epub ahead of print]. (4.301 - IF2011). (2012 - Current Contents). ISSN 0166-3542.

Janulíková, Jana - Staneková, Zuzana - Mucha, Vojtech - Kostolanský, František - Varečková, Eva. Two distinct regions of HA2 glycopolypeptide of influenza virus hemaglutinin elicit cross-protective immunity against influenza. In Acta Virologica : international journal, 2012, vol. 56, no. 3, p. 169 - 176. (0.682 - IF2011). (2012 - Current Contents). ISSN 0001-723X.

Košík, Ivan - Krejnusová, Ingrid - Bystrická, Magdaléna - Poláková, Katarína - Russ, Gustáv. N-terminal region of the PB1-F2 protein is responsible for increased expression of influenza A viral protein PB1. In Acta Virologica : international journal, 2012, vol. 55, no. 1, p. 45 - 54. (0.682 - IF2011). (2012 - Current Contents). ISSN 0001-723X.
Staneková, Zuzana - Király, J. - Stropkovská, Andrea - Mikušková, Tatiana - Mucha, Vojtech - Kostolanský, František - Varečková, Eva. Heterosubtypic protective immunity against influenza A virus induced by fusion peptide of the hemagglutinin in comparison to ectodomain of M2 protein. In Acta Virologica : international journal, 2012, vol. 55, no. 1, p. 61 - 68. (0.682 - IF2011). (2012 - Current Contents). ISSN 0001-723X.

Hollý, Jaroslav - Košík, Ivan - Varečková, Eva - Kostolanský, František - Russ, Gustáv. Konštrukcia delečnej knižnice PB1-F2 proteínu vírusu chrípky A a jej využitie v mapovaní biologických funkcii tohto prpteínu. In Študentská vedecká konferencia PriF UK 2012 : zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského, 2012, s. 240 - 245. ISBN 978-80-223-3213-2.

Práznovská, Margaréta - Košík, Ivan - Varečková, Eva - Kostolanský, František - Russ, Gustáv. Konštrukcia plazmidov exprimujúcich proteíny NS1, NS2, M1 a M2 vírusu chrípky typu A za účelom prípravy polyklonálnych sér voči konformačným epitopom. In Študentská vedecká konferencia PriF UK 2012 : zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského, 2012, s. 418 - 423. ISBN 978-80-223-3213-2.

Varečková E., Janulíková J., Staneková Z., Mucha V. Kostolanský F.: Cross-protection against influenza A infection induced by conserved peptides of influenza A haemagglutinin. Poster 128, Influenza Vaccines for the World, In Influenza vaccines for the World - Book of abstracts. - Valencia, 2012, p. 128.9-12 October 2012, Valencia, Spain

Kotlárová, Lucia - Varečková, Eva. Fuzogénna aktivita hemaglutinínu vírusu chrípky A ako faktor virulencie. In Tomáškovy dny 2012 - Sborník 7.-8.6.2012 Brno. XXI. Konference mladých mikrobiologú. - Brno : Masarykova univerzita, 2012, p. 38 - 39. ISBN 978-80-210-5874-3.

Práznovská, Margaréta - Košík, Ivan - Hollý, J. - Kostolanský, František - Russ, Gustáv. Fine mapping of interaction between PB1 - F2 and catalytic polymerase subunit of influenza A virus using deletion library. In New trends in the biological and ecological research : Specific conference with international participation on the occasion of the 15th Anniversary of University in Prešov Slovak Republic - Book of abstracts. - Prešov, 2012, p. 75. ISBN 978-80-89561-09-4.

Kotlárová, Lucia - Varečková, Eva. Factors influencing pandemic potential of influenza A Viruses. In New trends in the biological and ecological research : Specific conference with international participation on the occasion of the 15th Anniversary of University in Prešov Slovak Republic - Book of abstracts. - Prešov, 2012, p. 76. ISBN 978-80-89561-09-4.

35.) Výskum adaptácie rastlín v rádioaktívnej 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:	ÚGBR SAV
Počet spoluriešiteľských inštitúcií:	1
Čerpané financie:	APVV: 6.418,- €

Dosiahnuté výsledky:
Dve závažné nehody v dvoch jadrových elektrárňach v priebehu posledného štvrťstoročia, vo Fukušime (2011) a Černobyle (1986), poukázali na dôležitosť výskumu vplyvu zvýšenej úrovne ionizujúceho žiarenia na rastlinstvo žijúce v zasiahnutých oblastiach. Je veľmi zaujímavé, že rastliny v Černobyľskej oblasti boli schopné sa prispôsobiť životu v permanentne zvýšenej rádioaktivite. Naša skupina bola prvá, ktorá aplikovala postgenomickú metodiku, proteomiku, na výskum odpovede rastlín na permanentne zvýšenú rádioaktivitu v Černobyľskej oblasti a identifikovala proteíny, ktoré sú potenciálne dôležité v procese adaptácie rastlín na permanentne zvýšenú rádioaktivitu v Černobyľskej oblasti.
Keďže náš doterajší výskum poukázal na množstvo proteínov, ktorých abundancia sa zmenila, ako reakcia na permanentne zvýšenú hladinu IŽ v Černobyľskej oblasti, v prvom roku riešenia projektu APVV sme sa zamerali na objasnenie úlohy postranslačných modifikácií proteínov pri prispôsobovaní sa rastlín na permanentne zvýšenú rádioaktivitu, Fosforylované proteíny sme detegovali pomocou dvoch metód. Základom prvej bola proteínová dvoj-rozmerná elektroforéza (2-DE) v kombinácii s farbením s farbičkou detegujúcou fosforylované proteíny – ProQ Diamond. (Invitrogen) s následnou digitalizáciou obrazu pomocou laserového skenera PharosFX (Bio-Rad). Proteíny sa izolovali zo zrelých a vyvíjajúcich sa semien sóje a ľanu rastúcich v rádioaktívnej Černobyľskej oblasti.

Vedecké výstupy:
1.Klubicova, K., Danchenko, M., Skultety, L., Berezhna, V.V., Uvackova, L., Rashydov, N.M., Hajduch, M. Soybeans grown in the Chernobyl area produce fertile seeds that have increased heavy metal resistance and modified. PLoS ONE, 2012, 10, e 48169, Epub 2012. IF: 4.092.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

36.) Diagnostika spoločensky závažných ochorení na Slovensku, založená na moderných biotechnológiách
(Diagnoses of Socially Important Diseases in Slovakia Based on Modern Biotechnologies)

Zodpovedný riešiteľ:	Ľudevít Kádaši
Zodpovedný riešiteľ v organizácii SAV:	Marcela Kúdelová

Trvanie projektu:	1.11.2010 / 31.10.2013
Evidenčné číslo projektu:	26240220058
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚMFG SAV
Počet spoluriešiteľských inštitúcií:	5 - Slovensko: 5
Čerpané financie:	ASFEU: 12.613,16 €

Dosiahnuté výsledky:

Zaviedli sme efektívnu a citlivú metódu duplexnej PCR vhodnú na súčasnú identifikáciu prítomnosti dvoch typov vírusu Herpes simplex - HSV 1 a HSV 2, ktoré sa v populácii ľudí prenášajú priamym kontaktom a kontaminovanými slinami. Vyvinutou metódou je možné v klinických materiáloch, ako je spútum alebo stery z kože a slizníc, identifikovať zmiešané herpetické infekcie. Diferenciálna diagnostika prítomnosti HSV 2, ktorý spôsobuje genitálny herpes, umožňuje včasnú, citlivú a rýchlu detekciu vírusu a včasné zahájenie vhodnej antivírusovej terapie prenášačov vírusu potrebnej pre prevenciu prenosu herpetických vírusov kontaktom a aj prevenciu možnej kongenitálnej infekcie plodu. Zaviedli sme efektívnu a citlivú metódu duplexnej PCR vhodnú na súčasnú identifikáciu prítomnosti Ľudského cytomegalovírusu (HCMV) a vírusu Epsteina-Barrovej (EBV) v klinických materiáloch (spúte) imunokompromitovaných pacientov.

Vedecké výstupy:

Lapuníková B, Iškyová M, Pančík P, Halásová Z, Betáková T, Kúdelová M. Diferenciálna diagnostika ľudských herpetických vírusov v klinickom materiáli I: detekcia HCMV a EBV. ŠVK PriF UK 2012, Bratislava, 25. apríl 2012, Bratislava. Zborník recenzovaných príspevkov, ISBN 978-80-223-3213-2, pp. 418-423

Iškyová M, Košovský J, Pančík P, Halásová Z, Režuchová I, Kúdelová M. Ľudské alfaherpesvírusy: diferenciálna diagnostika vírusu Herpes simplex typu 1 a 2. ŠVK PriF UK 2012, Bratislava, 25. apríl 2012, Bratislava. Zborník recenzovaných príspevkov, ISBN 978-80-223-3213-2, pp. 302-307.

Lapuníková B., Halásová Z., Pančík P., Košovský J., Betáková T., Kúdelová M. (2012). Diagnostics of mixed herpetic infection with Human Cytomegalovirus and Epstein-Barr virus in clinical materials. XX. Tomasek days, 7.-8. 6. 2012. Brno, Czech Republic. Zborník rozšírených abstraktov v, ISBN 978-80-210-5874-3, pp 90-93

37.) Centrum excelentnosti pre translačný výskum v molekulárnej medicíne

(Centre of Excellence for Translational Research in Molecular medicine)

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.6.2010 / 31.5.2012
Evidenčné číslo projektu:	26240220030
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	7 - Slovensko: 7
Čerpané financie:	ASFEU: 69.9514,- €

Dosiahnuté výsledky:

V roku 2012 prebehli verejné obstarávania na zariadenia určené pre jednotlivých partnerov Centra excelentnosti. Tieto zariadenia boli dodané a uvedené do prevádzky, napr. real time PCR blok a hlbolochladiaci box (pre ÚMB SAV), DNA analyzátor (pre PriF UK), fluorescenčný mikroskop, izolátorový systém pre labratórne zvieratá (pre LF UK), pipetovacia stanica, inverzný mikroskop a laminár (pre ÚEE SAV), vyokoobrátková centrifúga (pre ÚBGŽ). Zrealizovala sa tiež pilotná prevádzka zariadení nakúpených v predchádzajúcom roku. Vo VÚ SAV sa uskutočnila aj experimentálna fáza proteomického výskumu.

Vedecké výstupy:

Flores-Ramirez G, Janecek S, Miernyk JA, Skultety L.In silico biosynthesis of virenose, a methylated deoxy-sugar unique to Coxiella burnetii lipopolysaccharide. Proteome Science 2012, 10:67

Kontseková S, Ohradanova Repic A, Polčicová K, Tuomaala P, Pastorek J, Pastoreková S, Parkkila S, Baráthová M. Novel monoclonal antibodies specific for CTLD-SSC and sialomucin domains of endosialin, a mural cell marker of tumor vasculature. Int J Oncol. 2012 Jul 23. doi: 10.3892/ijo.2012.1566. [Epub ahead of print] PubMed PMID: 22824847.

38.) Centrum pre inovačný výskum protinádorových a protivírusových stratégií

Center for Innovative Research of Antitumor and Antiviral Strategies

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.5.2011 / 30.4.2014
Evidenčné číslo projektu:	ITMS 26240220062
Organizácia je koordinátorom projektu:	nie
Koordinátor:	BioScience Slovakia s.r.o.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 872,62 €

Dosiahnuté výsledky:

V roku 2012 sme zrealizovali nákup niektorých plánovaných zariadení a softvérov (vrátane softvérov na proteomickú analýzu) a začali sme ich pilotnú prevádzku.

39.) Priemyselný výskum v klinickej diagnostike infekčných patogénov

(Industrial Research in Clinical Diagnostics of Infectious Pathogens)

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.6.2010 / 31.5.2013
Evidenčné číslo projektu:	ITMS 26240220032
Organizácia je koordinátorom projektu:	nie
Koordinátor:	BioScience Slovakia, s.r.o
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 589.778,- €

Dosiahnuté výsledky:

V roku 2012 sme optimalizovali detekčné platformy na zistenie prítomnosti LCMV a protilátok voči LCMV. Tieto platformy (RT PCR a ELISA) sú potenciálne aplikovateľné na diagnostické a prípadne epidemiologické účely, t.j. na detekciu a zistenie prevalencie LCMV infekcie v našej populácii.

Vedecké výstupy:

Lapošová K., Tomášková J. Vírus lymfocytovej choriomeningitídy-podceňovaný patogén, 1.časť; Slovenský lekár 2012, ročník 22 (36) , č. 9-10, str. 14-21

Lapošová K., Tomášková J. Vírus lymfocytovej choriomeningitídy-podceňovaný patogén, 2.časť; Slovenský lekár 2012, ročník 22 (36) , č. 11-12, str. 45-52

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

Developing a Copmpetency Center for Research and Development in Molecular Medicine

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.10.2011 / 31.1.2015
Evidenčné číslo projektu:	ITMS 26240220071
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratilave
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	ASFEU: 25.744,98 €

Dosiahnuté výsledky:

V roku 2012 sme otestovali detekčné prístupy na báze mikročipov. Zamerali sme sa najmä na rôzne kombinácie genomických sond a protilátok, ktoré sú vhodné na detekciu expresie nádorových génov a proteínových nádorových markerov. Pripravili sme tiež sériu lyzátov z nádorových bunkových línií s rôznym genotypom a fenotypom, ktoré použijeme ako modelové antigény do vybraných detečných postupov. Výsledky zatiaľ neboli publikované.

41.) Rozvoj centra excelentnosti pre využitie informačných biomakromolekúl v prevencii ochorení a pre zlepšenie kvality života

(Improvement of Centre of Excelence for the Use of Informational Biomacromolecules in Prevention of Diseases and for Improvement of the Quality of Life)

Zodpovedný riešiteľ:	Jaromír Pastorek
Trvanie projektu:	1.6.2010 / 30.4.2012
Evidenčné číslo projektu:	26240120027
Organizácia je koordinátorom projektu:	nie
Koordinátor:	prof. RNDr. Marta Kollárová, DrSc.,
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 1.400,90 €

Dosiahnuté výsledky:

Prídavné zariadenie ku konfokálnemu mikroskopu vhodné na pozorovanie buniek v reálnom čase sme využili na štúdium bunkovej migrácie v podmienkach hypoxie a normoxie. Predbežné výledky ukazujú, že hypoxia stimuluje bunkovú migráciu a že potlačenie expresie CA IX vedie k zhoršenej motilite buniek.

Zorganizovali sme seminár pre projektových partnerov a iných členov biomedicínkej komunity zameraný na možnosti využitia zariadení VÚ SAV zíkaných v rámci projektu na štúdium biologických dejov na subcelulárnej a molekulárnej úrovni.

Vedecké výstupy:

Csáderová L: Využitie konfokálnej mikroskopie na štúdium biomakromolekúl. VÚ SAV, 11.12.2012

Takacova M, Goliasova T, Kopacek J. Hypoxia and oncogenic viruses. In: Tumour Hypoxia: Molecular Mechanisms and Clinical Implications (Pastorekova S, Kopacek J, Eds.) Veda, SAS Publishing House Bratislava and Peter Lang, GmbH, Frankfurt am Main 2012, 373-396.

42.) Vývoj biofarmaceutík modernými biotechnológiami

(Development of biopharmaceutics by modern biotechnology)

Zodpovedný riešiteľ:	Ľudovít Škultéty
Trvanie projektu:	1.1.2011 / 31.12.2013
Evidenčné číslo projektu:	26240220045
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 502.796,17 €

Dosiahnuté výsledky:

Navrhol sa postup klonovania vybranej bioaktívnej látky vezikulárneho endoteliálneho rastového faktoru (VEGF), ktorý je významným rastovým faktorom v procese angionézy. Následne sa uskutočnila jeho expresia vo vhodnom eukaryotickom systéme. Novo obstarané zariadenia v rámci projektu sa využívajú najmä pri vývoji technologického postup pre purifikáciu VEGF. Potenciálna využiteľnosť vyvinutého systému je v aplikácii expresného a purifikačného systému pre ďalšie bioaktívne látky ako napr. špecifické monoklonálne protilátky, cytokíny, chemokíny a rôzne rastové faktory.

43.) Vývoj diagnostických postupov pre detekciu patogénov prenášaných kliešťami a postupov na prípravu vakcín proti kliešťom

(Development of Diagnostic Methods for Detection of Pathogens Tramsmitted by Thicks and Methods for Preparation of Vaccines against Thicks)

Zodpovedný riešiteľ:	Dušan Žitňan
Zodpovedný riešiteľ v organizácii SAV:	Boris Klempa
Trvanie projektu:	1.11.2010 / 31.10.2013

Evidenčné číslo projektu:	26240220044
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	ASFEU: 86.669,99 €

Dosiahnuté výsledky:

V roku 2012 sme sa v rámci riešenia projektu zapojili do dvoch hlavných aktivít. V prvej sme pomocou molekulárno biologických metód zahájili skríning kliešťov na prítomnosť vírusovej RNA vírusu kliešťovej encefalitídy (TBEV), ktoré boli v priebehu roka 2012 zbierané našimi partnermi z Ústavu zoológie SAV. Okrem toho sme imunizovali a sledovali účinnosť imunizácie s prvými tromi neuropeptidmi ako kandidátmi na vakcínu voči kliešťom.

Programy: Centrá excelentnosti SAV

44.) Centrum excelentnosti na štúdium metabolických aspektov vývoja, diagnostiky a liečby nádorových ochorení

(Center of excellence for the study of metabolic aspects of development, diagnostics and treatment of cancer diseases)

Zodpovedný riešiteľ:	Oľga Križanová
Zodpovedný riešiteľ v organizácii SAV:	Silvia Pastoreková
Trvanie projektu:	1.7.2011 / 31.12.2014
Evidenčné číslo projektu:	nebolo udelené
Organizácia je koordinátorom projektu:	nie
Koordinátor:	ÚMFG SAV
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	žiadne priame, reagencie zakúpené protredníctvom koordinátora

Dosiahnuté výsledky:

Pokračovali sme v analýze vplyvu hypoxickej acidózy na expresiu génov kódujúcich proteíny zúčastňujúce sa na iónovom transporte a glykolytickom metabolizme. Ukázali sme, že reakcia buniek na acidózu v silnej hypoxii (0.5%) závisí od ich metabolického fenotypu a že hypoxická acidóza ovplyvňuje expresný profil inak ako normoxická acidóza. Ide o komplexnú štúdiu, ktorej výsledky ešte neboli finalizované do publikačnej podoby.

Programy: Iné projekty

45.) Výskum nových kultivačných substrátov pre prípravu očkovacích látok

(New cultivation substrates research for preparation of vaccines)

Zodpovedný riešiteľ:	Tatiana Betáková
Trvanie projektu:	16.12.2009 / 16.10.2012
Evidenčné číslo projektu:	CD - 2009 - 36912/39534-1:11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	IMUNA PHARM, a.s.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	IMUNA PHARM:18000 €

Dosiahnuté výsledky:

Pripravili sme 30 pasáži vírusu osýpok Schwarz na MRC-5 bunkách pri teplote 33 ^{o} a 37 ^{o}C . Titre adaptovaných vírusov sa pohybujú okolo 6250, čo je na prípravu vakcín nedostatočné. Pripravili sme 30 pasáži vírusu mumpsu Jeryl Lyn na MRC-5 bunkach pri teplote 33 ^{o} a 37 ^{o}C. Titer vírusu mumpsu adaptovaného pri 33 ^{o}C sa pohybuje v rozmedzí 10 na 5 - 10 na 6.Adaptované vírusy osýpok a mumpsu neboli atenuované. Adaptované vírusy boli neutralizovateľné konským imúnnym sérom.

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

(Research of toncogene miR-155 program for the purpose of diagnosis and determine prognosis in cancer diseases)

Zodpovedný riešiteľ:	Adriana Gibadulinová
Trvanie projektu:	1.5.2012 / 1.10.2014
Evidenčné číslo projektu:	26240220074
Organizácia je koordinátorom projektu:	nie
Koordinátor:	KRD molecular technologies, s.r.o
Počet spoluriešiteľských inštitúcií:	1
Čerpané financie:	0

Dosiahnuté výsledky:

V úvodnom roku riešenia projektu sme zhromažďovali klinické vzorky a tvorili databázy ich súborov podľa diagnóz. Pripravili sme protokoly na testovanie metodológií a postupov na laboratórnych nádorových bunkových líniách. Taktiež sa zahájilo obstarávanie plánovaných prístrojov.

Medzinárodné projekty v 7. RP podané v roku 2012

FP7-HEALTH-2013-INNOVATION-1
FP7 Health.2013.2.3.4-1: Neglected infectious diseases of Central and Eastern Europe

1) Anti-tick Vaccines to Prevent Tick-borne Diseases in Europe (ANTIDotE)
Koordinátor: Joppe WR Hovius, University of Amsterdam, The Netherlands
Riešiteľ VÚ SAV: Boris Klempa

2) Neglected tick-borne pathogens along a Central and Eastern European transect (TICK-TRANS)
Koordinátor: Rainer G. Ulrich, Fridrich-Loeffler Institute, Grefswald-Insel Riems, Germany
Riešiteľ VÚ SAV: Boris Klempa

3) Tackling tick-borne encephalitis: from TBE virus epidemiology to innovative point-of-care diagnostics (TackTick)
Koordinátor: Gerhard Dobler, Institut für Mikrobiologie der Bundeswehr, Munich, Germany
Riešiteľ VÚ SAV: Boris Klempa

4) TBEV Biology, Pathogenesis and diagnostics in eastern Europe (TBE BioPath)
Koordinátor: Mathias Niedrig, Robert Koch Institute, Berlin, Germany
Riešiteľ VÚ SAV: Boris Klempa

5) Parasites and tick-borne pathogens of Central and Eastern Europe: a novel toolbox for the surveillance and prevention of neglected infectious diseases (PATH)
Koordinátor: Annapaola Rizzoli, Fondazione Edmund Mach, San Michele all'Adige, Italy
Riešiteľ VÚ SAV: Boris Klempa

6) Electronic Encyclopaedia of Virology, application to emerging viruses of economic or health threat to Europe (EEV)
Koordinátor: Tamara Gritsun, University of Reading, Reading, UK
Riešiteľ VÚ SAV: Boris Klempa

7) Uncovering Tick-Borne Bacteria in the human body: new insights to improve direct detection
Koordinátor: Dr. Paula García, Applied Research using Omic Sciences, S.L. (AROMICS), Spain
Riešiteľ VÚ SAV: Eva špitalská

8) The biological activity and pathogenesis of emerging tick-borne pathogens
Koordinátor: Dr. Ali Mirazimi, Linkopings Universitet, Sweden
Riešiteľ VÚ SAV: Zuzana Sekeyová

HEALTH.2013.2.3.0-1: Innovation in vaccines. FP7-HEALTH-2013-INNOVATION-1.

9) Development of a cross-protective vaccination strategy against seasonal and pandemic influenza virus infection (uniFLU)
Koordinátor: Helmut Schmutz, HSC Development GmbH, Austria
Riešiteľ VÚ SAV: Eva Varečková

ERA-NET -Translational Cancer Research (TRANSCAN)

10) Biomarkery pre antiangiogénnu terapiu kolorektálnych karcinómov (Biomarkers for anti-angiogenic therapy in colorectal cancer)
Koordinátor: prof. Stefano Indraccolo, Instituto Oncologico Veneto, Padova, Taliansko
Riešiteľ VÚ SAV: Silvia Pastoreková

11) Molecular and Sero-epidemiology of Crimean Congo Hemorrhagic fever in Animals
Riešiteľ VÚ SAV: Zuzana Sekeyová

European Research Council Advanced Grants (ERC)

12) Nádorové mikroprostredie ako križovatka stresových faktorov: CA9 ako model (Redefining tumor microenvironment as a crossroad of stress factors: CA9 paradigm)
Koordinátor VÚ SAV: Silvia Pastoreková
Spoluriešiteľské organizácie: MMC SAV, LF UK

Príloha C

Publikačná činnosť VÚ SAV

(zoradená podľa kategórií)

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

AAA01 Coxiella burnetii: Recent Advances and New Perspectives in Research of the Q Fever Bacterium. TOMAN R, Heinzel R.A, Samuel J.E, Mege Jean-Louis (eds.). Netherlands : Springer, 2012. 410 p. Advances in Experimental Medicine and Biology, Vol.984, 2012. ISBN 978-94-007-4314-4.

AAB Vedecké monografie vydané v domácich vydavateľstvách

AAB01 Tumor Hypoxia: Molecular Mechanisms and Clinical Implications. PASTOREKOVÁ Silvia, KOPÁČEK Juraj (eds.). Frankfurt am Main : Veda, SAS Publishing House Bratislava and Peter Lang, GmbH, 2012. 556 s. ISBN 978-3-631-63991-7.

AAB02 PAUHOFOVÁ, Iveta - DOVÁĽOVÁ, Gabriela - KOŠTA, Ján - NĚMCOVÁ, Ingeborg - PASTOREKOVÁ, Silvia - PETRÁŠEK, František - RUSKO, Miroslav - STANĚK, Peter - ŠČEPÁNOVÁ, Petra - VAŠKOVÁ, Natália - VAŠKOVÁ, Vanda - VAVRINCOVÁ, Zuzana - VOLNER, Štefan. Paradigmy zmien v 21. storočí : hľadanie kontúr v mozaike. Bratislava : Ekonomický ústav SAV, 2012. 314 s. Vyšla aj online verzia PAUHOFOVÁ, Iveta a kolektív Paradigmy zmien v 21. storočí : hľadanie kontúr v mozaike. Bratislava : EÚ SAV, 2012. 235 s. http://www.ekonom.sav.sk/uploads/journals/Paradigmy_zmien_v_21_st.pdf. ISBN 978-80-7144-195-3.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 HANCZARUK, Matthias - CUTLER, Sally J. - TOMAN, Rudolf - FRANGOULIDIS, Dimitrios. Coxiella burnetii: Q fever. In BSL3 and BS AgentsL : Epidemiology, Microbiology, and Practical Guidelines. - Germany : Willey-Blackwell, 2012, p. 57-121. ISBN 978-3-527-31715-8.

ABC02 IHNATKO, Róbert - SHAW, E. - TOMAN, Rudolf. Proteome of Coxiella burnetii. In Coxiella burnetii: Recent Advances and New Perspectives in Research of the Q Fever Bacterium. - Netherlands : Springer, 2012, p. 105-130. ISBN 978-94-007-4314-4.

ABC03 KÚDELOVÁ, Marcela - RAJČÁNI, Július. Herpes Simplex Virus and Human CNS Infections. In Neuroviral Infections : Two Volume Set. 1.ed. - Taylor & Francis Group/ CRC Press, 2012, p. 169 - 214. ISBN 1439868522.

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ABC05 NARASAKI, C.T. - TOMAN, Rudolf. Lipopolysaccharide of Coxiella burnetii. In Coxiella burnetii: Recent Advances and New Perspectives in Research of the Q Fever Bacterium. - Netherlands : Springer, 2012, p. 65-90. ISBN 978-94-007-4314-4.

ABD Kapitoly vo vedeckých monografiách vydané v domácich vydavateľstvách

ABD01 PASTOREKOVÁ, Silvia. Nádorové ochorenia v kontexte civilizačných zmien a spoločenských dopadov. In PAUHOFOVÁ, Iveta et al. Paradigmy zmien v 21. storočí : hľadanie kontúr v mozaike. - Bratislava : Ekonomický ústav SAV, 2012, s. 97-105. ISBN 978-80-7144-195-3.

ABD02 PASTOREKOVÁ, Silvia. Dynamická interakcia medzi civilizačnými zmenami a infekčnými chorobami. In PAUHOFOVÁ, Iveta et al. Paradigmy zmien v 21. storočí : hľadanie kontúr v mozaike. - Bratislava : Ekonomický ústav SAV, 2012, s. 101 - 108. ISBN 978-80-7144-195-3.

ABD03 ŠVASTOVÁ, Eliška - PASTOREKOVÁ, Silvia. Tumour Hypoxia: Molecular Mechanisms and Clinical Implications. In Tumor Hypoxia: Molecular Mechanisms and Clinical Implications. - Frankfurt am Main : Veda, SAS Publishing House Bratislava and Peter Lang, GmbH, 2012, p.285-298. ISBN 978-3-631-63991-7.

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ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

ADCA01 BUANNE, P. - RENZONE, G. - MONTELEONE, F. - VITALE, M. - SANDOMENICO, A. - GARBI, C. - MONTANARO, D. - ACCARDO, M. - TRONCONE, G. - ZAŤOVIČOVÁ, Miriam - CSÁDEROVÁ, Lucia - SUPURAN, C.T. - PASTOREKOVÁ, Silvia - SCALONI, A. - DE SIMONE, G. - ZAMBRANO, N. Characterization of Carbonic Anhydrase IX interactome reveals assisting its nuclear localisation in hypoxic cells. In Journal of Proteome Research, 2012, vol., no., p. 2012 Dec. 12, [Epub ahead of print]. (5.113 - IF2011). (2012 - Current Contents). ISSN 1535-3893.

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ADCA04 ETTINGER, J. - HOFMANN, J. - ENDERS, M. - TEWALD, F. - OEHME, R.M. - ROSENFELD, U.M. - ALI, H.S. - SCHLEGEL, M. - ESSBAUER, S.S. - OSTERBERG, A. - JACOB, J. - REIL, D. - KLEMPA, Boris - ULRICH, R.G. - KRÜGER, D.H. Multiple synchronous outbreaks of Puumala virus Germany. In Emerging Infectious Diseases, 2012, vol. 18, no. 9, p. 1461 - 1464. (6.169 - IF2011). (2012 - Current Contents). ISSN 1080-6040.

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ADCA14 KLEMPA, Boris - WITKOWSKI, P.T. - POPUGAEVA, E. - AUSTE, B. - KOIVOGUI, L. - FICHET-CALVET, E. - STRECKER, T. - TER MEULEN, J. - KRUGER, D.H. Sangassou Virus, the First Hantavirus Isolate from Africa, Displays Genetic and Functional Properties Distinct from Those of Other Murinae-Associated Hantaviruses. In Journal of Virology, 2012, vol. 86, no. 7, p. 3819 - 3827. (5.402 - IF2011). (2012 - Current Contents). ISSN 0022-538X.

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ADCA17 KOŠÍK, Ivan - KREJNUSOVÁ, Ingrid - PRÁZNOVSKÁ, Margaréta - POLÁKOVÁ, Katarína - RUSS, Gustáv. A DNA vaccine expressing PB1 protein of influenza A virus protects mice against the virus infection. In Archives of Virology, 2012, vol. 157, no. 5, p. 811-817. (2.111 - IF2011). (2012 - Current Contents). ISSN 0304-8608.

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ADCA19 NAGYOVÁ, Alžbeta - KAMENCAYOVÁ, Mária - GLASA, Miroslav - ŠUBR, Zdeno W.. The 3' - proximal part of the Plum pox virus P1 gene determinates the symptom expression in two herbaceous host plants. In Virus Genes, 2012, vol. 44, no. 3, p. 505 - 514. (1.845 - IF2011). (2012 - Current Contents). ISSN 0920-8569.

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2. [1.1] CAMPOY, E.M. - ZOPPINO, F.C.M. - COLOMBO, M.I. In INFECTION AND IMMUNITY. ISSN 0019-9567, JAN 2011, vol. 79, no. 1, p. 402-413., WOS

3. [1.1] MORGAN, J.K. - LUEDTKE, B.E. - THOMPSON, H.A. - SHAW, E.I. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, OCT 2010, vol. 311, no. 1, p. 61-69., WOS

ADEB Vedecké práce v zahraničných nekarentovaných časopisoch neimpaktovaných

ADEB01 GLASA, Miroslav - ŠUBR, Zdeno W. - MYRTA, A. - KÚDELA, Otakar. Detection and analyssi of prunus necrotie ringspot virus isolates from Slovakia. In Beiträge zur Zuchtungsforschung, 2000, vol. 6, no. 3, p. 15 - 19. ISSN 0948-5538.

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1. [3] Paduch-Cichal, E., Sala-Rejczak, K. Biological and molecular characterization of Prunus necrotic ringspot virus isolates from three rose cultivars Acta Physiologiae Plantarum, 2011, vol 33, iss 6, pp. 2349-2354

ADEB02 GLASA, Miroslav - KÚDELA, Otakar - ŠUBR, Zdeno W.. Current situation of Plum Pox virus variability in Slovakia. In Options méditerranéennes. Series B: Studies and Research. Virus and virus-like diseases of stone fruits, with particular reference to the Mediterranean region, 2OO3, p.69-71.

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1. [1.2] Šafářová, D., Gadiou, S., Navrátil, M. PPV-M monitoring in and out of intensive orchards in south Moravia Acta Horticulturae 899 , pp. 45-48, 2011, SCOPUS

ADEB03 MALI, V.R. - ŠUBR, Zdeno W. - KÚDELA, Otakar. Seed Transmission of Como and potyviruses in Fababean and Vetch Cultivars introduced into Slovakia. In Acta phytopathologica et entomologica Hungarica. - Budapest : Akadémiai Kiadó, 2003, vol. 38, no. 1-2, p. 87-97. ISSN 0238-1249.

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1. [3] El Ghaffar, A.M.H., Maaty,S.A.A.E., Mahmoud, S.Y.M. Identification and detectability of broad bean stain virus in broad bean seeds and effects on nodulation Archives of Phytopathology and Plant Protection, 2011, vol 44, iss 4, pp. 390-403

ADEB04 SCHWARZOVÁ, Katarína - KOŠŤANOVÁ, Z. - HOLEČKOVÁ, K. - ŠPITÁLSKA, Eva - BOLDIŠ, Vojtech. Direct detection of Borrelia burgdorferi spirochetes in patients with early disseminated Lyme borreliosis. In Central European Journal of Public Health, 2009, vol. 17, no.4, p. 179 - 182.

Citácie:
1. [1.1] H ughey, L.C. Approach to the hospitalized patient with targetoid lesions (2011) Dermatologic Therapy, 24 (2), pp. 196-206. DOI: 10.1111/j.1529-8019.2011.01395.x, 2011, WOS

ADFA Vedecké práce v domácich nekarentovaných časopisoch impaktovaných

ADFA01 KOCIANOVÁ, Elena - KOŽUCH, Otto. A contribution to the parasite fauna in winter nests of the common mole /Talpa Europaea L./ and incidence of its infection with tick-borne encephalitis virus /Tbe/ and Rickettsia Coxiella Burnetii. In Folia Parasitologica, 1988, vol. 35, no. 2, p. 175-180.

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1. [1.1] Varfalvyova, D (Varfalvyova, Denisa)1; Stanko, M (Stanko, Michal)1,2; Miklisova, D (Miklisova, Dana)1 Composition and seasonal changes of mesostigmatic mites (Acari) and fleas fauna (Siphonaptera) in the nests of Mus spicilegus (Mammalia: Rodentia) BIOLOGIA Volume: 66 Issue: 3 Pages: 528-534 DOI: 10.2478/s11756-011-0050-1 Published: JUN 2011, WOS

ADFB Vedecké práce v domácich nekarentovaných časopisoch neimpaktovaných

ADFB01 MISTRÍKOVÁ, Jela - KOŽUCH, Otto - KLEMPA, Boris - KONTSEKOVÁ, Eva - LABUDA, Milan - MRMUSOVÁ, Miroslava. New findings on the ecology and epidemiology of murine Herpes virus isolated in Slovakia. In Bratislavské lekárske listy, 2000, roč. 101, č. 3, p. 157-162. ISSN 0006-9248.

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3. [3] SUNDARARAJAN Aarthi. Regulation of B cell response to respiratory viruses DOCTORAL DISSERTATIONS (2011) University of Tennessee, Knoxville. 161 pp. http://trace.tennessee.edu/cgi/viewcontent.cgi?article=2144&context=utk_graddiss, Google Scholar

Príloha D

Údaje o pedagogickej činnosti VÚ SAV

Semestrálne prednášky:

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

RNDr. Ivan Košík, PhD.
Názov semestr. predmetu: Molekulárna imunológia
Počet hodín za semester: 20
Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK Bratislava

RNDr. Marcela Kúdelová, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z virológie - Molekulárna diagnostika vírusov
Počet hodín za semester: 4
Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

RNDr. Martina Labudová, PhD.
Názov semestr. predmetu: Biosyntéza vírusov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

prof. RNDr. Silvia Pastoreková, DrSc.
Názov semestr. predmetu: Biosyntéza vírusov
Počet hodín za semester: 13
Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

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

Názov semestr. predmetu: Regulácia expresie génov v eukaryotoch
Počet hodín za semester: 13
Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK Bratislava

Semestrálne cvičenia:

RNDr. Zdeno Šubr, CSc.
Názov semestr. predmetu: Vírusy rastlín a hmyzu
Počet hodín za semester: 20

Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

Semináre:

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

Terénne cvičenia: v sledovanom období žiadne

Individuálne prednášky:

RNDr. Boris Klempa, PhD.
Názov semestr. predmetu: Hantavírusy ako globálne sa vynárajúce vírusy spôsobujúce hemoragickú horúčku.
Počet hodín za semester: 2
Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

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

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

RNDr. František Kostolanský, CSc.
Názov semestr. predmetu: Vybrané kapitoly z imunológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

RNDr. Katarína Lapošová
Názov semestr. predmetu: Štúdium LCMV u pacientov s nádorom obličiek
Počet hodín za semester: 1
Názov katedry a vysokej školy: Ktedra mikrobiológie a virológie , Prírodovedecká fakulta UK Bratislava

Mgr. Iveta Štibrániová, PhD.
Názov semestr. predmetu: Imunomodulátory v slinách kliešťov
Počet hodín za semester: 1

Názov katedry a vysokej školy: Katedra virológie a mikrobiológie , Prírodovedecká fakulta UK Bratislava

RNDr. Zdeno Šubr, CSc.
Názov semestr. predmetu: Vybrané kapitoly z molekulárnej biológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK Bratislava

RNDr. Eva Varečková, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z virológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Katedra mikrobiológie a virológie, Prírodovedecká fakulta UK Bratislava

Príloha E

Medzinárodná mobilita organizácie

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

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Česko			Ramírez	5	Bekešová	5
			Kelemenová	5	Čiampor	3
					Glasa	5
					Kúdela	5
					Pastoreková	1
					Škultéty	5
					Zaťovičová	1
					Zelník	1
Dánsko			Obacz	31		
Francúzsko			Janulíková	4	Toman	3
			Klempa	3		
			Kostolanský	4		
			Košík	4		
			Sekeyová	13		
			Staneková	4		
			Varečková	4		
Holandsko			Pastoreková	4		
			Radvák	4		
Maďarsko			Glasa	1		
			Nagyová	1		
			Predajňa	1		
			Šubr	1		
Nemecko			Klempa	50	Zelník	6
			Pastoreková	1		
Rakúsko			Kopáček	2	Toman	1
			Obacz	4		
			Pastoreková	2		
Slovinsko					Glasa	4
					Predajňa	4
Srbsko			Berthová	4		
Švajčiarsko			Kopáček	3		
			Obacz	4		
			Pastoreková	3		
Taliansko			Benej	30	Glasa	5
					Kúdela	3
USA					Berthová	11
Veľká Británia			Benej	5	Berthová	65
			Havlíková	71		
Počet vyslaní spolu			**28**	**268**	**17**	**128**

(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			Dr. B. Jankovičová	31		
Dánsko			Dr. F. K. Uhlenbrock	18		
			Dr. F. K. Uhlenbrock	18		
Rusko					Dr. Y. Prikhodko	6
					Dr. Y. Shneyder	6
Ukrajina					Dr. M. Danchenko	150
Maďarsko			prof. L. Palkovics	1		
Počet prijatí spolu			**4**	**68**	**3**	**162**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	10 NANO	Fedor Čiampor	2
	BZ	Peter Ditte	3
		Adriana Gibadulinová	3
		Soňa Kontseková	3
		Juraj Kopáček	3
		Jaromír Pastorek	3
		Silvia Pastoreková	3
		Juraj Petrík	3
		Peter Radvák	3
		Martina Takáčová	3
		Ivana Vidličková	3
		Miriam Zaťovičová	3
	ČSPD	Lenka Berthová	5
		Marco Diaz	5
		Sabína Havlíková	5
		Elena Kocianová	5
		Martina Ličková	5
	TD	Zuzana Halásová	3
		Lucia Kotlárová	3
		Peter Pančík	3
		Margaréta Práznovská	3
		Lucia Škorvanová	3
Dánsko	MaC	Silvia Pastoreková	4
Grécko	ICII	Rudolf Toman	8
	TMCS	Juraj Kopáček	6
		Jaromír Pastorek	6
		Silvia Pastoreková	6
Lotyšsko	ENIVD	Boris Klempa	3
Maďarsko	6th CEEPC	Slávka Bekešová	4
		Gabriela Flores-Ramírez	4
		Ľudovít Škultéty	4
Nemecko	GFV	Boris Klempa	6
	ITC	Lucia Csáderová	4
		Eliška Švastová	4

	MDAHV	Vladimír Zelník	4
Rakúsko	PersMed	Silvia Pastoreková	3
Španielsko	HNC	Juraj Kopáček	4
		Silvia Pastoreková	4
	Influenza	František Kostolanský	8
		Eva Varečková	8
Taliansko	ICVF	Miroslav Glasa	6
		Alžbeta Nagyová	6
		Zdeno Šubr	6
Turecko	CAM	Mária Bartošová	5
		Lucia Csáderová	5
		Peter Ditte	5
		Juraj Kopáček	5
		Jaromír Pastorek	5
		Silvia Pastoreková	5
		Eliška Švastová	5
		Miriam Zaťovičová	5
Veľká Británia	ECMID	Zuzana Sekeyová	3
Spolu	**18**	**52**	**226**

Skratky použité v tabuľke C:

- 10 NANO - 10. sympózium o nanotechnológiách
- 6th CEEPC - 6th Central and European Proteomic Conference
- BZ - Biochemický zjazd
- CAM - 9th International Conference on Carbonic Anhydrase
- ČSPD - 10. české a slovenské parazitologické dni
- ECMID - European Conference for Microbiology and Infections Diseases
- ENIVD - European Network for Imported Viral Diseases
- GFV - Jahrestagunag Der Gesselshaft fur Virologie
- HNC - Learning from Hypoxia Signaling - HypoxiaNet Cost meeting
- ICII - 9th International Conference on Innate Immunity
- ICVF - International Conference on Viruses of Fruits
- Influenza - Influenza
- ITC - Ion Transport and Cancer
- MaC - Metabolism and Cancer
- MDAHV - 9th International Symposium on Marek´s Diseases and Avian Herpes Viruses
- PersMed - 3rd Annual Overcoming Regulatory and Commercialization Challenges for Personalized Medicines
- TD - Tomáškove dni
- TMCS - Tumor Microenvirenment and Cellular Stress: Signaling, Metabolism, Imaging and Therapeutic Targets