

Virologický ústav Slovenskej akadémie vied



Správa o činnosti VÚ SAV za rok 2011

**Bratislava
január 2012**

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.

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Názvy a adresy detašovaných pracovísk: VÚ SAV nemá detašované pracovisko

Vedúci detašovaných pracovísk: nie sú

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	111	29	82	2	23	99	92,55	52,04
Vedeckí pracovníci	52	20	32	1	9	43	38,95	38,95
Odborní pracovníci VŠ	25	1	24	1	12	23	20,84	13,09
Odborní pracovníci ÚS	22	2	20	0	2	21	21,16	0
Ostatní pracovníci	12	6	6	0	0	12	11,6	0

Tabuľka 1b: štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2011)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	6	14	2	1	5	12	3
Ženy	5	28	2	0	5	13	14

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	1	3	1	2	4	1	4	0	4
Ženy	6	6	9	2	3	5	3	3	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2011

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	50,1	50,3	50,2
Ženy	43,0	41,9	42,2
Spolu	44,9	45,1	45,0

1.3. Iné dôležité informácie k základným údajom o VÚ SAV a zmeny za posledné obdobie

V sledovanom období roka 2011 nedošlo vo VÚ SAV k zmenám v doteraz platnom Organizačnom poriadku schválenom v roku 2009.

Základnými vedeckými organizačnými jednotkami sú oddelenia, ktorých cieľom práce je riešenie aktuálnych vedeckých problémov.

Zoznam oddelení VÚ SAV k 31.12.2011:

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

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

Zoznam úsekov VÚ SAV k 31.12.2011:

- právno-organizačný úsek
- ekonomický úsek
- technický úsek

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a : zoznam domácich projektov riešených v roku 2011

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2011 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Vedecké projekty, ktoré boli r. 2011 financované VEGA	26	3	185040	185040	1584
2. Projekty, ktoré boli r. 2011 financované APVV	4	5	110341	114341	21456
3. Projekty OP ŠF	3	7	2122588	2122588	338018
4. Projekty centier excelentnosti SAV	0	1	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	2	-	-	33000

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b: zoznam domácich projektov podaných v roku 2011

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2011	-	7	-
2. Projekty výziev OP ŠF podané r. 2011	Bratislava		3
	Regióny		
3. Projekty výziev FM EHP podané r. 2011	-		

Podané APVV projekty:

Pastoreková Silvia

APVV-0658-11

Karbonická anhydráza IX ako funkčný komponent nádorovej progresie: úloha v epitelovo-mezenchýmovej tranzícii a v prenose medzibunkových signálov

Pastorek Jaromír

APVV-0893-11

Molekulárne mechanizmy spolupôsobenia stresových hormónov a hypoxie v nádorových bunkách: vplyv na expresiu a funkciu nádorového proteínu CA IX

Štibrániová Iveta

APVV-0920-11

Bioaktívne látky v slinách kliešťov a ich úloha v riadení bunkových procesov za fyziologických a patofyziologických podmienok

Glasa Miroslav

APVV-0349-11

Využitie genetickej transformácie rastlín pomocou *Agrobacterium* sp. na zlepšenie kvality a zdravotného stavu vybraných druhov ovocia

Sekeyová Zuzana

APVV-0596-11

Identifikácia biomarkerov na diagnostiku rickettsií, *Coxiella burnetii* a im príbuzných organizmov imunoproteomickými a molekulárne biologickými metódami

Betáková Tatiana

APVV-0600-11

Analýza proteínov vírusu chrípky a herpetických vírusov exprimovaných a modifikovaných počas infekcie a latencie; príprava novej generácie antivírusových látok.

Kúdelová Marcela

APVV-0479-11

Štúdium nových aspektov akútnej a chronickej infekcie vyvolanej vybranými humánnymi a vetrinárnymi vírusmi založené na molekulárnych metodológiách

KRD molecular technologies, s.r.o.

NFP26240220225

Výskum programu onkogénu miR-155 pre potreby diagnózy a určenia prognózy pri onkologických ochoreniach

Advanced Diagnostic Focus, s.r.o.

NFP847860

Centrum pre priemyselný výskum terapeutických protilátok

BIONT, a.s.

NFP444125

Výskumné centrum pre inovatívne zobrazovacie diagnostiky onkologických a metabolických ochorení

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2011

Tabuľka 2c: zoznam medzinárodných projektov riešených v roku 2011

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2011 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 6. a 7. rámcového programu EÚ	0	6	-	-	324568
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	3	-	-	715
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	0	3	-	-	33569
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ podané v roku 2011

Tabuľka 2d: podané projekty 7. RP EÚ v roku 2011

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

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

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 sa aktívne zapojil do riešenia deviatich projektov ŠF ako žiadateľ alebo partner. V súčasnosti má rozpracované dve žiadosti na zapojenie sa do aktuálnych výziev.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Tomaskova J, Oveckova I, Labudova M, Lukacikova L, Laposova K, Kopacek J, Pastorekova S, Pastorek J. Hypoxia induces the gene expression and extracellular transmission of persistent lymphocytic choriomeningitis virus. J Virol. 2011 Dec;85(24):13069-76.

Vplyv hypoxie na génovú expresiu a extracelulárny prenos perzistentného vírusu lymfocytárnej chorimeningitídy

Fyziologický kontext vírusom infikovanej bunky môže významne ovplyvniť množenie a šírenie vírusového potomstva. Hlavne počas perzistentnej infekcie, keď vírus závisí od hostiteľskej bunky a zvyčajne nenaruša jej vitálne funkcie, stresy v mikroprostredí ako napr. hypoxia môžu poškodiť vzťah medzi vírusom a hostiteľom a eskalovať vírusovú patogenézu. Narastajúce množstvo dát naznačuje, že hypoxiou-indukované molekulárne odpovede riadené transkripčným faktorom HIF modulujú génovú expresiu vírusov, ktoré majú DNA genóm, obsahujú HRE elementy vo svojich promótoroch a replikujú sa v jadre. Ako prví sme ukázali, že hypoxia ovplyvňuje perzistentnú infekciu navodenú RNA vírusom, ktorý sa replikuje v cytoplazme. Ako model sme použili vírus lymfocytárnej chorimeningitídy (LCMV), ktorý môže pretrvávať v rôznych bunkách bez porušenia ich integrity a spôsobuje zväčša nezjavné infekcie. Je preto považovaný za nevinný, hoci LCMV-asociované potraty a fatálne infekcie u príjemcov transplantátov varujú, že môže byť nebezpečný. MX kmeň LCMV sa šíri v bunkách HeLa medzibunkovým prenosom bez prítomnosti extracelulárnych viriónov. Ukázali sme, že ak sú tieto infikované bunky vystavené chronickej hypoxii, transkripcia vírusovej RNA a syntéza vírusových proteínov sa zvýši HIF-závislým mechanizmom. Hypoxia tiež zvyšuje tvorbu infekčných viriónov schopných preniesť LCMV infekciu protredníctvom bezbunkového média. Táto hypoxiou indukovaná reaktivácia môže mať zdravie-poškodzujúce následky napríklad pre vyvíjajúce sa embryo, alebo pre príjemcov transplantátov od asymptomatických darcov.

Effect of hypoxia on the gene expression and extracellular transmission of persistent lymphocytic choriomeningitis virus

Physiological context of the virus-infected cells can markedly affect multiplication and spread of the virus progeny. Mainly during persistent infection, when the virus strongly depends on host cell and usually does not disturb its vital functions, microenvironmental stresses such as hypoxia can uncouple the intimate virus-host relation and escalate the virus pathogenesis. Accumulating evidence suggests that hypoxia-induced molecular responses governed by HIF transcription factor modulate gene expression of viruses that pass through a DNA stage, contain HRE in their promoters and replicate in the nucleus. We could show for the first time, that hypoxia can also influence the outcome of persistent cytoplasmic RNA virus infection. As a model, we used lymphocytic choriomeningitis virus (LCMV) which can persist in different cell types without perturbing their integrity and causes mostly inapparent infections. It is therefore considered for innocent, although LCMV-associated abortions and fatal LCMV infections in transplant recipients warn that it can be dangerous. MX strain of LCMV replicates in a persistent mode in human HeLa cells and spreads in a cell-to-cell manner in absence of extracellular infectious virions. Exposure of

MX-infected HeLa cells to chronic hypoxia led to increased virus RNA transcription and higher levels of the viral proteins via a HIF-1 α -dependent mechanism. Hypoxia also enhanced formation of infectious virions capable to transmit LCMV infection via cell-free medium. This hypoxia-induced LCMV "reactivation" might have health-compromising consequences, e.g. for developing fetus or receiver of transplant from asymptomatic donor.

2.3.2. Aplikačný typ

Sekeyova Z, Subramanian G, Mediannikov O, Diaz MQ, Nyitray A, Blaskovicova H, Raoult D.: Evaluation of clinical specimens for Rickettsia, Bartonella, Borrelia, Coxiella, Anaplasma, Francisella and Diplorickettsia positivity using serological and molecular biology methods. FEMS Immunol Med Microbiol. 2012 Feb;64(1):82-91. doi: 10.1111/j.1574-695X.2011.00907.x. Epub 2011 Dec 13.

Diagnostika a potvrdenie výskytu medicínsky významných druhov Proteobaktérií v klinických vzorkách pacientov na Slovensku.

Testovali sme klinické vzorky, séra od pacientov rôznych vekových skupín získané z vybraných lokalít na Slovensku. Celkové hodnotenie ich pozitivity sme robili pomocou imunofluorescencie (IFA), použijúc deväť antigénov Bartonella, dva Borrelia, šesť rickettsiových (zo skupiny škvrnitých horúčiek a týfusovej skupiny), dva Coxiellové a po jednom antigéne z ľudskej granulomatóznej ehrlichiozy, Anaplazma, Francisella tularensis a Diplorickettsia massiliensis. Dokázali sme 32% pozitívitu sér v reakcii s rickettsiovými antigénmi zo skupiny škvrnitých horúčiek. Len päť (10%) pozitívnych prípadov rickettsiových ochorení odhalených pomocou IFA sme potvrdili aj v polymerázovej reťazovej reakcii. Infekcie spôsobené Rickettsia helvetica, Rickettsia slovaca a Rickettsia raoultii, sa javia ako najčastejšie sa vyskytujúce rickettsiové ochorenia na Slovensku. Dokázali sme aj výskyt Coxiella burnetii, Borrelia a po prvý krát vôbec na Slovensku aj prípad ľudského ochorenia spôsobeného Bartonella elisabethae.

Diagnostic and confirmation of prevalence of important Proteobacteria species in clinical samples from patients in Slovakia.

We monitored clinical samples, sera from patients of different age groups from selected regions in Slovakia. Overall seroprevalence evaluated by immunofluorescence (IFA) using nine Bartonella, two Borrelia, six rickettsial (spotted fever and typhus group), two Coxiella, and one human granulocytic ehrlichiosis, Anaplasma, Francisella tularensis and Diplorickettsia massiliensis antigens, in rural and city populations of Slovak Republic, was found to be 32% positive for spotted fever group rickettsiae. Only five (10%) of the rickettsia-positive cases evaluated by IFA were confirmed by polymerase chain reaction. Rickettsia helvetica, Rickettsia slovaca, and Rickettsia raoultii infection appear to be prevalent disease cause in Slovakia. Furthermore, Coxiella burnetii, Borrelia and, for the first time, Bartonella elisabethae were confirmed in Slovakia.

2.3.3. Medzinárodné vedecké projekty

**Projekt 7. Rámcového programu METOXIA (HEALTH-2007-222741)
02/2009-01/2014**

Svastova E, Witariski 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. 2011 Dec 14. [Epub ahead of print]

Ditte P, Dequiedt F, Svastova E, Hulikova A, Ohradanova-Repic A, Zatovicova M, Csaderova L, Kopacek J, Supuran CT, Pastorekova S, Pastorek J. Phosphorylation of Carbonic Anhydrase IX Controls Its Ability to Mediate Extracellular Acidification in Hypoxic Tumors. Cancer Res. 2011 Dec 15;71(24):7558-67.

Objasnenie významu fosforylácie CA IX a jej úlohy v migrácii hypoxických nádorových buniek

CA IX je vysoko aktívna forma karbonickej anhydrázy prítomná v širokom spektre pevných nádorov, kde ochraňuje nádorové bunky pred hypoxiou a acidózou. Hypoxia indukuje tvorbu CA IX a tiež reguluje jej enzymatickú aktivitu. Ukázali sme, že pre správne fungovanie CA IX je dôležitá nielen katalytická doména, ale aj intaktná vnútrobunková časť molekuly CA IX a že aktivita CA IX závisí na fosforylácii treonínu 443 prostredníctvom hypoxiou indukovanej protein kinázy A (PKA). Zistili sme, že CA IX kolokalizuje so substrátmi PKA v lamelipódiách migrujúcich buniek a ako prví na svete sme ukázali, že priamo interaguje s transportérmi bikarbonátových iónov. Tým sme demonštrovali, že pomocou regulácie iónového transportu a pH gradientu CA IX podporuje bunkovú migráciu. Dokázali sme tiež, že fosforylačný status CA IX ovplyvňuje pro-migračný fenotyp nádorových buniek. Naše výsledky priniesli nový pohľad na CA IX ako aktívneho mediátora prenosu signálov hypoxie cez PKA a objasnili molekulové mechanizmy regulujúce jej funkciu v hypoxickom prostredí.

Elucidation of the significance of CA IX phosphorylation and its role in migration of hypoxic tumor cells

CA IX is a highly active carbonic anhydrase isoform expressed in a broad range of solid tumors, where it protects tumor cells from hypoxia and acidosis. CA IX expression is induced by hypoxia, which also induces its catalytic activity. We showed that proper CA IX functioning requires not only extracellular enzyme domain, but also intact intracellular tail and depends on phosphorylation of Thr443 via a hypoxia-activated protein kinase A (PKA).

We found that CA IX co-localizes with PKA substrates in lamellipodia of migrating tumor cells and were the first to prove that it directly interacts with bicarbonate transporters, suggesting that via regulation of ion transport and pH gradient, CA IX supports cell migration. Finally, we demonstrated that phosphorylation status of Thr443 affects the migratory phenotype of tumor cells. Our findings shed a new light on CA IX as the active mediator of signal transduction from hypoxia-PKA axis, and provide deeper insight into molecular mechanisms regulating its function in the hypoxic microenvironment.

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. 2011/ doplnky z r. 2010	B Počet v r. 2011/ doplnky z r. 2010	C Počet v r. 2011/ doplnky z r. 2010
1. Vedecké monografie vydané v domáciach vydavateľstvách (AAB, ABB, CAB)	0 / 0	0 / 0	0 / 0
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	0 / 0	0 / 0	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domáciach vydavateľstvách (BAB, ACB)	0 / 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 domáciach vydavateľstvách (ABD, ACD)	0 / 0	0 / 0	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	8 / 0	0 / 0	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domáciach vydavateľstvách (BBB, ACD)	0 / 0	0 / 0	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0	0 / 0	0 / 0
9. Vedecké a odborné práce v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, Cddb, BDC, BDCA, BDCB, BDD, BDDA, Bddb)	48 / 2	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)	7 / 2	0 / 0	0 / 0
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonsferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	14 / 0	0 / 0	0 / 0

b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	8 / 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)	2/0	0/0	0/0
15. Vedecké práce uverejnené na internete (GHG)	0 / 2	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. 2010/ doplňky z r. 2009	B Počet v r. 2010/ doplňky z r. 2009
Citácie vo WOS (1.1, 2.1)	922 / 180	0 / 0
Citácie v SCOPUS (1.2, 2.2)	126 / 38	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	8 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	11 / 1	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	6
Prednášky a vývesky na domácich vedeckých podujatiach	3

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Pastoreková,S.: Hypoxia modulates persistent RNA virus infection by enhancing virus gene expression and infectious virion production: LCMV arenavirus as a paradigm. Hypoxianet meeting OXYGEN 2011, Davos, Switzerland, 8 - 12 January 2011

Pastoreková,S.: Interplay Between Molecular Responses of Tumor Cells to Hypoxia and Stress Mediated by Catecholamines. Invited lecture. 10th Symposium on Catecholamines and Other Neurotransmitter in Stress, Smolenice Castle, June 25-30, 2011

Pastoreková,S.: Upstream regulation and downstream effects of carbonic anhydrase IX in the context of hypoxic tumor phenotype. 2nd ISPDC Meeting: Proton dynamics and cancer, Nice, November 18-19, 2011

Klempa,B.

Molecular diagnostics of hantaviruses as emerging pathogens. Jahrestagung der Deutschen Vereinigung zur Bekämpfung der Viruskrankheiten (DVV). Leipzig, Germany. September 2011

Kúdela,O.

Zdravotné riziká potravín rastlinného pôvodu. Čo je ešte jedlé.
Deň zemiakového poľa. Dom kultúry Veľký Biel, Senec. 24.6.2011

Kúdela,O.

Virus diagnostic methods for fruit trees.

Opening Conference of the HUSK/0901/1.2.1/0126, project COSHARKA. Hungary-Slovakia Cross-border Co-operation Programme 2007-2013. May 27, 2011 Budapest.

Predajňa,L.

Analysis of the *Plum pox virus* diversity and implication of the development of efficient control strategies.

Katedra mikrobiológie a virológie PF UK. Mlynská dolina , pavilón B2. 14.10.2011.

Sekeyová,Z.

Rickettsiae – známe i *de novo* sa objavujúce organizmy.

Vedecký seminár Ústavu molekulárnej biológie SAV. 14.júna 2011.

Schwarzová,K.

Lymfská borelióza – zoonóza, ktorú nemožno podceňovať.

Bratislava, Katedra Mikrobiológie a Virologie. 4.3.2011

Zelník,V.

Marekova choroba, súčasny stav, epidemiologie, vakcíny a poznávaní záhad patogenézy.

Brno, Výzkumný ústav veterinárního lékařství. 3.března 2011.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

Klempa, B. Hofmann,J. Rang,A. Ulrich, R. Dzagurova,T.K. Tkachenko,E.A. Kruger,D.H.

Dobrava –Belgrade hantavirus as an emerging pathogen in Central ad East Europe. Labuda days.Bratislava , Slovak Academy of Science Institute of Virology. 2011

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Pastoreková,S.: Tumor response to hypoxia and acidosis: role of carbonic anhydrase IX. Invited lecture, Danish Cancer Society, Copenhagen, Denmark, 18.02.2011

Pastoreková,S. Pastorek,J.: Role of carbonic anhydrase IX in hypoxia-driven tumor progression. Invited lecture, Academia Sinica, Genomics Research Center, Taipei, Taiwan, 29.04.2011

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2011**2.7.1. Vynálezy, na ktoré bol udelený patent**

V zahraničí - počet patentov: 3

- Číslo PV: US 7,713,704

Mená autorov: Závada Jan

Názov vynálezu: MN gene and protein

Majiteľ / spolumajiteľ: Virologický ústav SAV

- Číslo PV: US 7,713,704

Mená autorov: Pastorek Jaromír, Pastoreková Silvia, Jan Závada

Názov vynálezu: MN gene and protein

Majiteľ / spolumajiteľ: Virologický ústav SAV

- Číslo PV: US 7,993,852

Mená autorov: Pastorek Jaromír, Pastoreková Silvia, Závada Jan, Ebert Matthias
Rocken Christoph

Názov vynálezu: MN/CA IX and cancer prognosis

Majiteľ / spolumajiteľ: Virologický ústav SAV

2.7.2. Prihlásené vynálezy

Na Slovensku

v sledovanom období žiadne

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 naplňovať, ústav sa zameriava na vybudovanie potrebnej infraštruktúry. V posledných rokoch bolo toto možné realizovať najmä vďaka ŠPVV projektu BITCET, 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 2011

Forma	Počet k 31.12.2011				Počet ukončených doktorantúr v r. 2011					
	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	5	16	1	3	2	1	1	2	0	0
Interná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	1	7	0	3	0	0	0	1	0	0
Spolu	6	23	1	6	2	1	1	3	0	0

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b: počty preradení z interných foriem na externé a z externej formy na interné

Pôvodná forma	Interná z prostriedko v SAV	Externá z prostriedko v SAV	Interná z iných zdrojov	Externá z iných zdrojov	Externá	Externá
Nová forma	Interná z iných zdrojov	Externá	Interná z prostriedkov SAV	Externá	Interná z prostriedkov SAV	Interná z iných zdrojov
Počet	0	2	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c: menný zoznam ukončených doktorandov v roku 2011

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
Ján Király	IŠ hradené z prostr. SAV	9 / 2006	11 / 2011	4.2.13 virológia	RNDr. František Kostolanský CSc., VÚ SAV	Prírodovedecká fakulta UK

Ivan Košík	IŠ hradené z prostr. SAV	9 / 2007	9 / 2011	4.2.13 virológia	RNDr. Gustáv Russ DrSc., VÚ SAV	Prírodovedecká fakulta UK
Matina Košíková	IŠ hradené z prostr. SAV	9 / 2007	8 / 2011	4.2.3 molekulárna biológia	RNDr. Tatiana Betáková CSc., Virologický ústav SAV	Prírodovedecká fakulta UK

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Zoznam akreditovaných študijných odborov

Tabuľka 3d: zoznam akreditovaných študijných odborov

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na:
virológia	4.2.13	Prírodovedecká fakulta UK
virológia	4.2.13	Univerzita veterinárskeho lekárstva 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 spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnot' alebo vyšší kvalifikačný stupeň
RNDr. Tatiana Betáková, CSc. (virológia)	prof. MUDr. Fedor Čiampor, DrSc. (Prešovská univerzita v Prešove)	RNDr. Lucia Csáderová, PhD. (VKS IIa)
Ing. Miroslav Glasa, PhD. (virológia)	prof. MUDr. Fedor Čiampor, DrSc. (Prírodovedecká fakulta UK)	Ing. Slavomíra Nováková, PhD. (VKS IIa)
doc. RNDr. Peter Kabát, CSc. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Slovenská poľnohospodárska univerzita v Nitre)	Mgr. Katarína Lapošová (RNDr., Univerzita Pavla Jozefa Šafárika v Košiciach)
RNDr. Elena Kocianová, DrSc. (mikrobiológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Slovenská technická univerzita v Bratislave)	RNDr. Martina Ličková (RNDr., Univerzita Pavla Jozefa Šafárika v Košiciach)
MVDr. Juraj Kopáček, DrSc. (molekulárna biológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Univerzita Komenského v Bratislave)	prof. RNDr. Silvia Pastoreková, DrSc. (prof., Univerzita Komenského v Bratislave)
RNDr. František Kostolanský, CSc. (virológia)	prof. RNDr. Jaromír Pastorek, DrSc. (Slovenská zdravotnícka univerzita v Bratislave)	Mgr. Katarína Trnková (RNDr., Univerzita Pavla Jozefa Šafárika v Košiciach)
RNDr. Marcela Kúdelová, DrSc. (virológia)	prof. RNDr. Silvia Pastoreková, DrSc. (Lekárska fakulta UK)	

prof. RNDr. Jela Mistríková, DrSc. (virologia)	prof. RNDr. Silvia Pastoreková, DrSc. (Prírodovedecká fakulta UK)	
prof. RNDr. Jaromír Pastorek, DrSc. (molekulárna biológia)		
prof. RNDr. Jaromír Pastorek, DrSc. (virologia)		
prof. RNDr. Silvia Pastoreková, DrSc. (imunológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (molekulárna cytológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (onkológia)		
prof. RNDr. Silvia Pastoreková, DrSc. (virologia)		
Ing. Rudolf Toman, DrSc. (mikrobiológia)		
RNDr. Eva Varečková, DrSc. (virologia)		
MVDr. Juraj Kopáček, DrSc. (molekulárna cytológia)		
MVDr. Juraj Kopáček, DrSc. (hygiena chovu zvierat a životné prostredie)		
MVDr. Juraj Kopáček, DrSc. (hygiena potravín)		
MVDr. Juraj Kopáček, DrSc. (infekčné a parazitárne choroby zvierat)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f: prednášky a cvičenia vedené v roku 2011

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	14	0	4	0
Celkový počet hodín v r. 2011	205	0	54	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	16
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	20
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	17

4.	Počet školených doktorandov (aj pre iné inštitúcie)	24
5.	Počet oponovaných dizertačných a habilitačných prác	18
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	9
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	2

3.6. Iné dôležité informácie k pedagogickej činnosti

Aplikácia zákona o Vysokých školách vniesla do organizácie doktorandského štúdia viaceré negatívy. Ústav, ako školiace pracovisko cestou ÚP SAV síce financuje interné doktorandské štúdium, ale v dôsledku postavenia doktorandov ako študentov mu nevyhovuje organizácia štúdia zo strany vysokých škôl s množstvom neplánovaného voľna udeleného študentom.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré VÚ SAV organizoval v roku 2011

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

II. Labudove dni, Virologický ústav SAV, Bratislava, 100 účastníkov, 28.04.-29.04.2011

Príspevky sa sústredili do troch hlavných blokov:

- kliešte a nimi prenášané nákazy
- epidemiológia a epizootológia nákaz
- pakoáriky, komáre a nimi prenášané mikroorganizmy

Uvedené vedecké podujatie sa venovalo výskytu a epidemiologickej situácii kliešťovej encefalitídy a lymskej boreliózy na Slovensku, vplyvu týchto ochorení na zdravie obyvateľstva, výskytu kliešťov v mestských aj horských lokalitách, hodnoteniu parazito-hostiteľských vzťahov u hlodavcov, detekcii boreliózy, tularémie, leptospirózy, anaplazmózy, rickettsiáz, babesiózy ako aj ekológii, genetickej variabilite a kontrole ich pôvodcov. Časť bola venovaná aj vírusovým ochoreniam, ich laboratórnej diagnostike a krvným protozoárnym parazitom ako aj komárom a nimi prenášaným patogénom.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada VÚ SAV v roku 2012

(anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

- **III. Labudove dni – Labuda's Days**

Virologický ústav SAV, Bratislava, 100 účastníkov, 17.01.-17.01.2012
(Elena Kocianová, 02/ 593 02 430, virukoc@savba.sk)

- **Konferencia konzorcia METOXIA – General Meeting of Metoxia Consortium**
Bratislava, 40 účastníkov, 11.06.-15.06.2012
(Silvia Pastoreková, 02/ 59 302 404, virusipa@savba.sk)
- výročná konferencia partnerov konzorcia 7. RP EU s cieľom vyhodnotiť aktivity projektu v polovici riešiteľského obdobia
- **Výročná konferencia Patobiologickej skupiny EORTC – Annual Meeting of EORTC PBG Group**
Smolenice, 50 účastníkov, 21.06.-24.06.2012
(Silvia Pastoreková, 02/ 59 302 404, virusipa@savba.sk)
- pravidelná konferencia členov PBG Európskej organizácie pre výskum a liečbu rakoviny.

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	4	1	1

4.2. Členstvo a funkcie v medzinárodných orgánoch

v sledovanom období žiadne

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

Ing. Magdaléna Bystrická, CSc.

- Československá spoločnosť mikrobiologická - člen

prof. MUDr. Fedor Čiampor, DrSc.

- Československá biologická spoločnosť AVČR - podpredseda
- Československá mikrobiologická spoločnosť - člen
- Československá miroskopická spoločnosť AVČR – podpredseda

Ing. Miroslav Glasa, PhD.

- American Phytopathological Society - člen

RNDr. Boris Klempa, PhD.

- Československá mikrobiologická spoločnosť - člen
- Gesellschaft für Virologie - člen

RNDr. Juraj Koči, PhD.

- Československá mikrobiologická společnost - člen

RNDr. František Kostolanský, CSc.

- Československá společnost mikrobiologická - člen
- European Society for Clinical Virology - člen

RNDr. Ivan Košík, PhD.

- Československá společnost mikrobiologická - člen

RNDr. Marcela Kúdelová, DrSc.

- Československá mikrobiologická společnost - člen

prof. RNDr. Jela Mistríková, DrSc.

- Československá mikrobiologická společnost - 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. Juraj Petřík, DrSc.

- American Society for Virology - člen
- British Blood Transfusion Society – člen výboru
- International Committee on Taxonomy of Viruses - Anelloviridae subcommittee member - predseda podskupiny pre anelloviridae
- International Society of Blood Transfusion - Working Party on Transfusion Transmitted Infection Diseases - člen

RNDr. Gustáv Russ, DrSc.

- Československá společnost mikrobiologická - člen výboru

RNDr. Zuzana Sekeyová, CSc.

- Československá mikrobiologická společnost - člen
- European society of clinical microbiology and infectious diseases (ESCMID) - člen

Mgr. Eva Špitalská, PhD.

- Československá mikrobiologická společnost - 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 společnost mikrobiologická – 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
Klempa Boris	National Health Laboratory Service Research Trust (NHLSRT) Grants in South Africa	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

Ing. Miroslav Glasa, PhD.

Mgr. Lukáš Predajňa

Bistrita, Rumunsko, 5/2011

Pracovné stretnutie členov konzorcia „SharCo“, aktualizácia dosiahnutých výsledkov v oblasti epidemiológie vírusu šarky slivky a vytýčenie strategických zámerov na nasledujúce obdobie.

RNDr. Zdeno Šubr, CSc.

RNDr. Alžbeta Nagyová

Mgr. Mária Kamencayová

Praha, Česká republika, 5/2011

Pracovné stretnutie s pracovníkmi Ústavu experimentálnej botaniky AV ČR zamerané na výmenu skúseností s laboratornými technologickými postupmi transformácie rastlín (biolistika, agroinfekcia).

Ing. Miroslav Glasa, PhD.

RNDr. Otakar Kúdela, CSc.

Budapest, Maďarsko, 5/2011

Otváracia konferencia projektu HUSK/0901/1.2.1/0126, predstavenie projektových cieľov, vytýčenie strategických zámerov na nasledujúce obdobie.

Ing. Miroslav Glasa, PhD.

Mgr. Lukáš Predajňa

Montpellier, Francúzsko, 9/2011

Pracovné stretnutie členov projektu COST0806, predstavenie dosiahnutých výsledkov v oblasti netransgénnej ochrany rastlín voči vírusovej infekcii, diskusia k prípadnému vytvoreniu konzorcia pre FP7 výzvu.

RNDr. Elena Kocianová, DrSc.

Poľsko, Warszawa, National Institute of Public Health – PZH, 14.4.2011

Pracovné stretnutie spoluriešiteľov projektu „Epidemiologic situation analysis of Tick Borne Encephalitis and Rickettsioses in the EU“. Sumarizácia výsledkov a príprava záverečného reportu v medzinárodnom projekte

RNDr. Boris Klempa, PhD.

RNDr. Sabína Havlíková, PhD.

Cambridge, Veľká Británia, 10/2011

Pracovný seminár „Next Generation Sequencing of virus genomes“, ktorý organizovalo konzorcium

Európskeho vírusového archívu (EVA) v spolupráci so Sangerovým inštitútom v Cambridge, UK. Oboznámenie sa s najnovšími technológiami a metódami sekvenovania a možnosťami ich využitia pri sekvenovaní vírusových genómov v rámci aktivít projektu EVA.

RNDr. Boris Klempa, PhD.

Antalya, Turecko, 05/2011

Účasť na pravidelnom stretnutí členov organizácie European Network for Diagnostics of "Imported" Viral Diseases (ENIVD) ako zástupca Slovenska na ktorom boli diskutované problémy týkajúce sa diagnostiky importovaných vírusových infekcií a pripravenosti Európskej únie na nové vírusové epidémie.

RNDr. Boris Klempa, PhD.

Reading, Veľká Británia, 05/2011

Pracovné stretnutie s partnermi z University of Reading, zhodnotenie doterajšieho priebehu a naplánovanie ďalších experimentov v rámci spoločného projektu „Molecular engineering of genetically modified viruses“ (Molekulárna príprava geneticky modifikovaných vírusov), ktorý je podporovaný organizáciou The Royal Society vo forme The Royal Society International Joint Project 2010/R2.

RNDr. Sabína Havlíková, PhD.

St Raphael, Francúzsko, 10/2011

Pravidelné pracovné stretnutie členov konzorcia „European Virus Archive“, prezentácia dosiahnutých výsledkov za uplynulých šesť mesiacov a spresnenie úloh pre nasledujúce obdobie.

RNDr. Zuzana Sekeyová, PhD.

Heraklion, Grécko - 6/2011

Prezentácia a propagácia výsledkov Oddelenia Rickettsiologie na medzinárodnej konferencii, ktorá je vrcholným stretnutím celosvetových odborníkov v oblasti vnútrobunkových bakteriálnych parazitov typu Rickettsia spp. a Coxiella spp.

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 súčasnej 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. V poslednom období ústav úspešne rozvíja onkologický výskum v oblasti nádorovej hypoxie, kde má vďaka objavu Karbonickej anhydrázy IX ako markera hypoxie popredné postavenie vo svete.

Virologický ústav SAV, má dlhodobu jasné vedecké 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 nielenže darí udržiavať počet prác publikovaných vedeckými pracovníkmi, ale čo je potešiteľné, darí sa zvyšovať kvalitu publikovaných prác, vyjadrenú najmä impakt faktorom časopisov.

Okrem toho sa VÚ SAV od svojho založenia venoval výskumu štruktúrno-funkčných vlastností komponentov vonkajšej membrány rickettsií a chlamýdií, charakterizácii nových kmeňov a druhov týchto mikroorganizmov a ich medicínskym a ekologickým aspektom.

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.

Vo VÚ SAV sa tiež začali rozvíjať aktivity translačného charakteru v oblasti molekulárnej medicíny, a to najmä uplatňovanie najnovších metódik 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 o zintenzívnenie zvädzania poznatkov vedy a výskumu do praxe.

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 konferenciách

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 štúdia

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave

Druh spolupráce (spoločné pracovisko alebo iné): spoločný projekt MZSR

Začiatok spolupráce: 2008

Zameranie: diagnostika a terapia

Zhodnotenie: Aplikácia priamej diagnostiky Lymfkej boreliózy na terapiu pacientov (predovšetkým séronegatívnych) Získané výsledky sa využili pri úprave terapeutických postupov u pacientov s diseminovaným štádiom ochorenia.

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 roku 2011 Virologický ústav ako hlavný koordinátor v spolupráci so 17 inštitúciami z výskumných pracovísk Univerzity Komenského, Slovenskej technickej univerzity, Univerzity veterinárneho lekárstva, Slovenskej poľnohospodárskej univerzity, ústavov Slovenskej akadémie vied a výskumných ústavov rezortu zdravotníctva a pôdohospodárstva úspešne ukončil Štátny program výskumu a vývoja, Komplexné riešenie podpory a efektívneho využívania infraštruktúry, ktorý riešil v podprograme vybudovanie centra Excelencie pre oblasť biotechnológií, „Biotechnologické centrum SR (BITCET)“.

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

v sledovanom období žiadna

7. Spolupráca s aplikačnou a hospodárskou sférou

(okrem aktivít uvedených v kap. 2, 3, 4)

7.1. Spoločné pracoviská s aplikačnou sférou

- Spoločné pracovisko s BioScience Slovakia, s.r.o. v rámci projektu ŠF PV-INF-PAT

7.2. Kontraktový – zmluvný výskum

(vrátane zahraničných kontraktov)

Názov kontraktu:

- Agreement on Scientific Cooperation in Influenza Research

Partner:

- Greenhill Biotechnology Research GmbH, Rakúsko

Začiatok spolupráce:

- v súlade s podpísaným kontraktom od roku 2007

Ukončenie spolupráce:

- spolupráca trvá

Objem získaných prostriedkov v bežnom roku (€): 0

Stručný opis výstupu/výsledku:

- In vitro a in vivo (na myšiach) boli otestované potenciálne vakcinačné kmene vírusov chrípky

Zhodnotenie:

- všetky náklady spojené s testovaním boli hrazené rakúskou stranou

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Ing. Ľudovít Škultéty a kol.

V Laboratóriu 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. V súčasnosti sa rozvíja spolupráca na tomto poli s NovaTec Immundiagnostica, Dietzenbach, v Nemecku a ID VET, Montpellier, Francúzsko. Toto 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 Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

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

Meno pracovníka	Názov orgánu	Funkcia
prof. MUDr. Fedor Čiampor, DrSc.	Rada APVV pre MVTs a do 7RP	Predseda
	Interacademy Medical Panel	člen
	Rada APVV pre dofinancovanie 7RP	podpredseda
	Global Forum for Health Research	člen
Ing. Miroslav Glasa, PhD.	The European Food Safety Authority	člen EFSA pest risk assessment activities on Plum pox virus
MVDr. Juraj Kopáček, DrSc.	Národná odborná vedecká skupina, Európsky úrad pre bezpečnosť potravín (EFSA)	člen
RNDr. Ján Košovský, CSc.	Slovenský výbor pre bioetiku pre UNESCO pri Ministerstve zahraničných vecí SR	člen
RNDr. Otakar Kúdela, CSc.	Slovenská národná akreditačná služba	expert
	Národné vedecké skupiny EFSA	člen
RNDr. Marcela Kúdelová, DrSc.	Slovenská národná akreditačná služba	expert
	Agentúra Ministerstva školstva, vedy, výskumu a športu SR pre štrukturálne fondy EÚ	externý hodnotiteľ
prof. RNDr. Jaromír Pastorek, DrSc.	Rada vlády pre vedu a techniku	člen
	Komisia pre obhajoby doktorských dizertačných prác	predseda

	Rada vlády pre znalostnú spoločnosť	člen
prof. RNDr. Silvia Pastoreková, DrSc.	Slovenská komisia pre vedecké hodnoty	podpredsedníčka
Ing. Rudolf Toman, DrSc.	Národná sieť prevencie kriminality	Zástupca SAV
	Európska sieť prevencie kriminality	zástupca SR
RNDr. Vladimír Zelník, CSc.	Správa štátnych hmotných rezerv	odborný garant projektu

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

Názov expertízy: posudzovanie akreditácie pracovísk

Adresát expertízy: SNAS - Slovenská národná akreditačná služba

Spracoval: prof. MUDr. Fedor Čiampor, DrSc.

Stručný opis: posudzovanie úloh pre akreditáciu laboratórií podľa normy ISO/IEC/17025: 2005

Názov expertízy: posudzovanie projektov

Adresát expertízy: Agentúra Ministerstva školstva, vedy, výskumu a športu SR pre štrukturálne fondy EÚ

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: vypracovanie posudkov projektov Operačného Programu pre Výskum a Vývoj, Opatrenie 2.2 Prenos poznatkov a technológií získaných výskumom a vývojom do praxe 4X

Názov expertízy: expertíza pre Slov. nár. akreditač. službu (SNAS)

Adresát expertízy: Štátny veterinárny a potravinový ústav Dolný Kubín

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: expertné vedecké posudzovanie v procese reakreditácie - validácia a verifikácia molekulárnych metód, plnenie požiadaviek flexibilného rozsahu

Názov expertízy: expertíza pre Slovenskú nár. akreditač. službu (SNAS)

Adresát expertízy: Onkologický ústav sv. Alžbety, Bratislava

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: expertné vedecké posudzovanie v procese reakreditácie - validácia a verifikácia molekulárnych laboratórnych vyšetrovacích metód diagnostiky germinatívnych a somatických mutácií, diagnostiky papilomavírusov a liekovej rezistencie, plnenie požiadaviek flexibilného rozsahu

Názov expertízy: expertíza pre Slov. nár. akreditač. službu (SNAS)

Adresát expertízy: Štátny veterinárny ústav Zvolen, Odbor zdravia zvierat

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: expertné vedecké posudzovanie v procese reakreditácie - validácia a verifikácia virologických molekulárnych metód

Názov expertízy: expertíza pre Slov nár akreditač službu (SNAS)

Adresát expertízy: Medicínske laboratórium, Limbová, Bratislava

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: expertné posudzovanie v procese reakreditácie ML -klinická patológia - diagnostika vysokorizikových typov HPV v cytologických steroch

Názov expertízy: expertíza pre Slovenskú nár. akreditač. službu (SNAS)

Adresát expertízy: Laboratóriá klinickej mikrobiológie a príónových chorôb, Limbová 14, 833 01 Bratislava

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: expertné posudzovanie v procese reakreditácie - validácia a verifikácia molekulárnych metód diagnostiky

Názov expertízy: expertíza pre Slov nár akreditač službu (SNAS)

Adresát expertízy: Gendiagnostica, Banská Bystrica

Spracoval: RNDr. Marcela Kúdelová, DrSc.

Stručný opis: expertné stanovisko k poskytovaniu názorov a intepretácií výsledkov v procese akreditácie medicínskeho laboratória v oblasti kvalitatívnych metód genotypizácie hereditárnych porúch hemostázy a molekulárnej diagnostiky rizikových faktorov koronárnych ochorení

Názov expertízy: eosudky pre akreditáciu laboratórií ako expert/posudzovateľ pre SNAS

Adresát expertízy: SNAS

Spracoval: RNDr. Eva Varečková, DrSc.

Stručný opis: expertízne posudzovanie virologických skúšok v diagnostických laboratóriách humánnych a veterinárnych infekcií - 3x

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b: členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
prof. RNDr. Jaromír Pastorek, DrSc.	Rada APVV	predseda Pracovnej skupiny pre biologické vedy

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi 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 organizácie SAV

Tabuľka 9a: vedecko-popularizačná činnosť pracovníkov VÚ SAV

Meno	Spoluautori	Typ	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Tatiana Betáková		B	Očkovanie nie je všeliek, chrípku treba vyležať	Sme	7.10.2011
Tatiana Betáková		B	Prasacia chrípka je už bežný vírus	Sme	5.2.2011
Silvia Pastoreková,		B	Je útok najlepšou obranou zlého rozhodnutia vlády?	Sme	17.2.2011
Silvia Pastoreková	J. Pastorek, I. Haraj - redaktor	D	Nočná pyramída - „Mojim životom je veda“	Slovenský rozhlas	8.11.2011
Silvia Pastoreková	K. Čulenová - redaktorka	B	Rozhovor: Nehody, ktoré nám zachraňujú zdravie	ŠARM	5.6.2011
Silvia Pastoreková	R. Igaz - redaktor	C	Slovenskí supervedci	Televízna stanica Markíza	4.11.2011

Silvia Pastoreková	T. Prokopčák – redaktor	E	Rozhovor na nedeľu: Od lieku sme rok, dva	SME.sk	26.11.2011
Silvia Pastoreková	T. Prokopčák – redaktor	B	Slováci skúmajú, ako na rakovinu	SME	23.11.2011
Silvia Pastoreková	V. Vondrák, redaktor	C	Úspešný výskum rakoviny, rozhovor	Televízna stanica TA 3	29.5.2011
Silvia Pastoreková	Y. Zabneva – redaktorka	B	Rozhovor: Tváre roka 2011	Hospodárske noviny	23.12.2011
Fedor Čiampor		D	nočný rozhovor Pod pyramídou	SRO	1
Fedor Čiampor		B	populárno-vedecký článok	Farmaceutický spravodaj	1
Fedor Čiampor		B	populárno-vedecký článok	Vesmír (Praha)	1
Fedor Čiampor		B	populárno-vedecký článok	SME	2
Fedor Čiampor	-	C	rozhovor	STV	3
Eva Špitalská	D. Róžová	B	Odborná spolupráca na príspevku	Mamina	1

Skratky typov: A - osobná prednáška/beseda, B - tlač, C - TV, D - rozhlas, E - internet, F - exkurzia, G - kniha, H - DVD, I - dokumentárny film, J - iné

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b: súhrnné počty vedecko-popularizačných činností VÚ SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	3	tlač	11	TV	5
rozhlas	2	internet	1	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0

9.2. Vedecko-organizačná činnosť

Tabuľka 9c: vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
II. Labudove dni	medzinárodná	Virologický ústav SAV, Bratislava	28.04.-29.04.2011	100

9.3. Účasť na výstavách

Názov výstavy:

- Noc výskumníka 2011

Miesto konania:

- Avion Shopping Park Bratislava

Dátum:

- 23.9.2011

Zhodnotenie účasti:

- Oddelenie Molekulárnej medicíny v spolupráci s Bioscience Slovakia s.r.o. púťavou formou predstavili svet vírusov pre širokú laickú verejnosť

9.4. Účast' 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	1

9.5. Členstvo v redakčných radách časopisov

RNDr. Tatiana Betáková, CSc.

- The Open Journal of Virology - člen redakčnej rady

prof. MUDr. Fedor Čiampor, DrSc.

- Acta virologica - člen redakčnej rady
- Bull. Čsl. spol. mikrobiologickej – člen redakčnej rady
- Communicative and Integrative Biology - člen redakčnej rady
- Folia medica - člen redakčnej rady
- Voprosy virusologii - člen redakčnej rady

Ing. Miroslav Glasa, PhD.

- Záhradkár - člen redakčnej rady

RNDr. Martina Labudová, PhD.

- Acta Virologica - editor

prof. RNDr. Jaromír Pastorek, DrSc.

- Acta Virologica - člen redakčnej rady

prof. RNDr. Silvia Pastoreková, DrSc.

- Frontiers in Molecular and Cellular Oncology - člen redakčnej rady
- World Journal of Gastroenterology - člen redakčnej rady

RNDr. Gustáv Russ, DrSc.

- Acta virologica - hlavný redaktor

RNDr. Vladimír Zelník, CSc.

- Acta Virologica - člen redakčnej rady

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

Ing. Valéria Hajnická, CSc.

- Slovenská parazitologická spoločnosť pri SAV - 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

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 pri SAV - člen

Mgr. Eva Špitalská, PhD.

- Slovenská parazitologická spoločnosť pri SAV - člen

Mgr. Iveta Štibrániová, PhD.

- Slovenská parazitologická spoločnosť pri SAV - člen

RNDr. Veronika Tóthová

- 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.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a: knižničný fond

Knižničné jednotky spolu		35 967
z toho	knihy a zviazané periodiká	35 967
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	Mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		11
z toho zahraničné periodiká		5
Ročný prírastok knižničných jednotiek		25
v tom	Kúpou	8
	Darom	14
	Výmenou	3
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		2 750
Knižničné jednotky spracované automatizovane		35 967

10.2. Výpožičky a služby

Tabuľka 10b: výpožičky a služby

Výpožičky spolu		823
z toho	odborná literatúra pre dospelých	61
	výpožičky periodík	543
	prezenčné výpožičky	477
MVS iným knižniciam		11
MVS z iných knižníc		5
MMVS iným knižniciam		0
MMVS z iných knižníc		2
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		25

10.3. Používatelia

Tabuľka 10c: užívatelia

Registrovaní používatelia	80
Návštevníci knižnice spolu (bez návštevníkov podujatí)	966

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 €	8 350

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 výpožičná služba
- rešeršné služby z databáz v sieti SAV, Medline, Current Contents, SCOPUS
- automatizované spracovanie publikačnej činnosti v 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 – podpredseda

MVDr. Juraj Kopáček, DrSc.

- Kontrolná rada SAV – člen

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

prof. RNDr. Jela Mistríková, DrSc.

- Komisia VEGA pre lekárske a farmaceutické vedy – člen

12. Hospodárenie organizácie**12.1. Výdavky RO SAV**

Tabuľka 12a: výdavky RO SAV (v €)

Kategória	Posledný upravený rozpočet r. 2011	Čerpanie k 31.12.2011 celkom	z toho:	
			z rozpočtu	z mimoroz. zdrojov
Výdavky spolu	3 860 316,76	5 060 636,49	3 860 316,76	1 200 319,73
z toho:				
- kapitálové výdavky	2 022 222,85	2 403 313,82	2 022 222,85	381 090,97
- bežné výdavky	1 838 093,91	2 657 322,67	1 838 093,91	819 228,76
z toho:				
- mzdové výdavky	927 354,98	1 093 846,78	927 354,98	166 491,80
odvody do poisťovní a NÚP	313 759,62	372 704,07	313 759,62	58 944,45
- tovary a ďalšie služby	433 146,31	1 026 938,82	433 146,31	593 792,51
z toho:				
výdavky na projekty (VEGA, APVV, SPVV, MVTP, ESF)	419 464,31	1 013 256,82	419 464,31	593 792,51
výdavky na periodickú tlač	15 326,00	15 326,00	15 326,00	
transfery na vedeckú výchovu	162 189,00	162 189,00	162 189,00	

12.2. Príjmy RO SAV

Tabuľka 12b: príjmy RO SAV (v €)

Kategória	Posledný upravený rozpočet r. 2011	Plnenie k 31.12.2011
Príjmy spolu:	1 423 629,73	1 423 629,54
z toho:		
rozpočtované príjmy (účet 19)	223 310,00	223 309,81
z toho:		
- príjmy za nájomné	7 509,81	7 509,81
mimorozpočtové príjmy (účet 780)	1 200 319,73	1 200 319,73

13. Nadácie a fondy pri VÚ SAV

Názov: **Nadácia akademika Blaškoviča**

Zameranie: veda - výskum

Nadácia akademika Blaškoviča bola zaregistrovaná na Ministerstve vnútra SR dňa 16.decembra 2003. Na založený bankový účet Nadácie mohli darcovia dobrovoľne prispievať finančnými čiastkami podľa vlastného uváženia. Hospodárenie Nadácie bolo zabezpečené v súlade s predpísanou účtovnou osnovou.

K 31.12.2011 vstúpila nadácia do likvidácie, nakoľko nemala v roku 2011 žiadne zisky a čerpanie finančných prostriedkov zasiahlo do základného imania. Majetok nadácie bol kúpnu zmluvou prevedený do majetku Virologického ústavu SAV Bratislava.

14. Iné významné činnosti VÚ SAV

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 Contents
- akreditovaným pracoviskom pre doktorandské štúdium v odbore virológi, 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 EUROCORDER
- 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 2011

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

v sledovanom období žiadne

15.1.2. Iné domáce ocenenia

Pastoreková Silvia

Pamätná medaila Lekárskej fakulty UK v Bratislave
Oceňovateľ: LF UK v Bratislave

Pastoreková Silvia a kolektív Oddelenia molekulárnej medicíny

Vedecko-technický tím roka 2011
Oceňovateľ: Minister školstva, vedy, techniky a športu SR

Pastoreková Silvia

Zlatá medaila Prírodovedeckej fakulty UK
Oceňovateľ: PriF UK

Radvák Peter

Drobnicov memoriál 6. ročník
Oceňovateľ: Slovenská spoločnosť pre biochémiu a molekulárnu biológiu
Opis: Súťaž mladých vedeckých pracovníkov v odboroch biochémie a molekulárna biológia

15.2. Medzinárodné ocenenia

Klempa Boris

Cena DVV a GfV za klinickú virológiu 2011
Oceňovateľ: Deutsche Vereinigung zur Bekämpfung der Viruskrankheiten e.V. (DVV; Nemecké združenie pre boj s vírusovými ochoreniami) a Gesellschaft für Virologie (GfV; Spoločnosť pre virológiu)

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 2011 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. Zamestnanci Virologického ústavu SAV 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. Vladimír Zelník,CSc., 02/59302 463
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. Miroslav **Glas**, PhD.
predseda VR VÚ SAV

Príloha A**Zoznam zamestnancov a doktorandov VÚ SAV k 31.12.2011****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.	20	0.20
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.	100	0.83
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.	Ing. Valéria Hajnická, CSc.	50	0.50
7.	doc. RNDr. Peter Kabát, CSc.	42	0.42
8.	RNDr. Boris Klempa, PhD.	100	1.00
9.	RNDr. František Kostolanský, CSc.	100	1.00
10.	RNDr. Ján Košovský, CSc.	40	0.40
11.	RNDr. Otakar Kúdela, CSc.	100	1.00
12.	RNDr. Tatiana Mikušková, PhD.	100	0.25
13.	RNDr. Vojtech Mucha, CSc.	24	0.24
14.	Ing. Slavomíra Nováková, PhD.	100	1.00
15.	RNDr. Juraj Petřík, DrSc.	48	0.48
16.	Mgr. Marco Quevedo Diaz, PhD.	100	1.00
17.	RNDr. Ingeborg Režuchová, PhD.	100	1.00
18.	RNDr. Zuzana Sekeyová, CSc.	100	1.00
19.	Ing. Ľudovít Škultéty, PhD.	100	1.00

20.	Mgr. Eva Špitalská, PhD.	100	1.00
21.	Mgr. Iveta Štibrániová, PhD.	100	1.00
22.	RNDr. Zdeno Šubr, CSc.	100	1.00
23.	Mgr. Eliška Švastová, PhD.	100	1.00
24.	RNDr. Miriam Zaťovičová, CSc.	100	1.00
25.	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.	PharmDr. Terézia Goliašová, PhD.	100	0.00
6.	RNDr. Sabína Havlíková, PhD.	100	1.00
7.	RNDr. Juraj Koči, PhD.	100	0.00
8.	RNDr. Kamila Koči, PhD.	100	0.00
9.	RNDr. Ivan Košík, PhD.	100	0.33
10.	RNDr. Martina Labudová, PhD.	100	1.00
11.	RNDr. Monika Lahová, PhD.	100	1.00
12.	Mgr. Katarína Polčicová, PhD.	100	0.00
13.	RNDr. Lucia Škvarková, PhD.	100	1.00
14.	Mgr. Katarína Štefanidesová, PhD.	100	0.00
15.	RNDr. Martina Takáčová, PhD.	100	1.00
16.	Ing. Jana Tomášková, PhD.	100	1.00
17.	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	1.00
4.	Ing. Peter Ditte	100	1.00
5.	Mgr. Gabriela Flores-Ramírez	100	1.00
6.	Mgr. Zuzana Halásová	100	1.00
7.	Mgr. Alžbeta Hulíková, PhD.	100	0.00
8.	RNDr. Lenka Jelenská	100	0.00
9.	Mgr. Eva Kastel	100	1.00
10.	Mgr. Annamária Kelemenová	100	0.33

11.	Ing. Edita Kollerová	100	1.00
12.	Mgr. Lucia Kotlářová	100	0.33
13.	Mgr. Hana Krasoňová	100	1.00
14.	Ing. Marcela Krasulová	100	1.00
15.	Ing. Stela Laušová	100	1.00
16.	RNDr. Martina Ličková	100	1.00
17.	Mgr. Joanna Agnieszka Obacz	100	0.25
18.	RNDr. Ingrid Ovečková	100	1.00
19.	Ing. Katarína Palkovičová	100	0.24
20.	Ing. Ľubica Predajňová	100	0.42
21.	RNDr. Oľga Sedláková	100	1.00
22.	RNDr. Zuzana Staneková	100	0.33
23.	Ing. Darina Svetlíková	100	1.00
24.	JUDr. Iveta Šárniková	100	1.00
25.	Mgr. Katarína Trnková	100	1.00

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.	Zuzana Gulášová	100	1.00
6.	Ľudmila Hasíková	100	1.00
7.	Zuzana Chabroňová	100	1.00
8.	Jana Išová	86	0.86
9.	Viera Jesenská	100	1.00
10.	Radoslav Kohanyi	100	1.00
11.	Alena Kosorinová	100	1.00
12.	Margita Mišovičová	100	1.00
13.	Matilda Némethová	100	1.00
14.	Eva Nováková	100	1.00
15.	Alena Oravská	100	1.00
16.	Milada Poldaufová	100	1.00
17.	Blažena Rajciová	100	1.00
18.	Marta Siebenstichová	100	1.00
19.	Renáta Szalayová	100	1.00

20.	Kvetoslava Tarábková	100	1.00
21.	Zuzana Urszinyiová	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.	Jozef Puszter	100	1.00
11.	Vladimír Rojik	100	1.00
12.	Ľubica Sopúšková	100	1.00

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení 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. Petra Borovská	Prírodovedecká fakulta UK	4.2.13 virológia
4.	Mgr. Petra Bullová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
5.	Ing. Zuzana Ditte	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
6.	Mgr. Martina Frimmelová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
7.	Mgr. Jana Janulíková	Prírodovedecká fakulta UK	4.2.13 virológia
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.	Mgr. Ľubomíra Lukáčiková	Prírodovedecká fakulta UK	4.2.13 virológia

12.	Ing. Andrea Maňúrová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
13.	Mgr. Alžbeta Nagyová	Prírodovedecká fakulta UK	4.2.13 virológia
14.	Mgr. Peter Pančík	Prírodovedecká fakulta UK	4.2.13 virológia
15.	Mgr. Margaréta Práznovská	Prírodovedecká fakulta UK	4.2.13 virológia
16.	Mgr. Lukáš Predajňa	Prírodovedecká fakulta UK	4.2.13 virológia
17.	Mgr. Lukáš Radosa	Prírodovedecká fakulta UK	4.2.13 virológia
18.	Mgr. Peter Radvák	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
19.	Mgr. Lucia Škorvanová	Prírodovedecká fakulta UK	4.2.13 virológia
20.	RNDr. Zuzana Timková	Prírodovedecká fakulta UK	4.2.13 virológia
21.	RNDr. Veronika Tóthová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia

Interní doktorandi hradení z iných zdrojov

VÚ SAV nemá interných doktorandov hradených z iných zdrojov

Externí doktorandi

1.	Ing. Peter Ditte	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
2.	Mgr. Gabriela Florez Ramirez	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
3.	RNDr. Zuzana Halásová	Prírodovedecká fakulta UK	4.2.13 virológia
4.	Mgr. Annamária Kelemenová	Prírodovedecká fakulta UK	4.2.7 mikrobiológia
5.	Mgr. Lucia Kotlárová	Prírodovedecká fakulta UK	4.2.13 virológia
6.	RNDr. Martina Ličková	Prírodovedecká fakulta UK	4.2.13 virológia
7.	Mgr. Zuzana Staneková	Prírodovedecká fakulta UK	4.2.13 virológia
8.	Mgr. Katarína Trnková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia

Príloha B

Projekty riešené vo VÚ SAV

Medzinárodné projekty

Programy: 6RP

1.) Manipulácia a analýza buniek na čipoch

(On-chip cell handling and analysis)

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.4.2007 / 31.12.2011
Evidenčné číslo projektu:	MRTN-CT-2006-035854
Organizácia je koordinátorom projektu:	Nie
Koordinátor:	prof. Vellekoop, Vienna University of Technology
Počet spoluriešiteľských inštitúcií:	7 - Nemecko: 2, Dánsko: 1, Grécko: 1, Švajčiarsko: 1, Holandsko: 2
Čerpané financie:	6RP EÚ: 207415 € podpora medzinárodnej spolupráce z národných zdrojov: 2806 €

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. V roku 2011 na tomto projekte pracovali traja zahraniční pracovníci (2 skúsení "ER" a 1 začiatočný "ESR"). Z vedeckého hľadiska je projekt zameraný na vývoj a testovanie rozličných biosenzorov na bunkových modeloch.

V spolupráci s partnerom z Technickej univerzity vo Viedni sme sa podieľali na vývoji metódy na detekciu nádorových buniek pomocou infračerveného senzora. Okrem toho sme spolupracovali pri vývoji zobrazovacieho zariadenia na snímanie pohybov buniek v reálnom čase.

Vedecké výstupy:

S. van den Driesche, W. Witarski, S. Pastorekova, H. Breiteneder, C. Hafner, and M.J. Vellekoop "A label-free indicator for tumor cells based on the CH₂-stretch ratio", *Analyst* 2011, doi:10.1039/c1an15076f

N. Moscelli, S. van den Driesche, W. Witarski, S. Pastorekova, and M. J. Vellekoop "An imaging system for real-time monitoring of adherently grown cells", *Sens. Actuators A*. 2011, doi:10.1016/j.sna.2011.05.010

S. van den Driesche, W. Witarski, S. Pastorekova, H. Breiteneder, M. J. Vellekoop, C. Hafner, " A label-free indicator for melanoma cells based on the CH₂-stretch ratio", Annual Meeting of the Society for Investigative Dermatology, 2011, Phoenix, AZ, USA.

N. Moscelli, V. Malvaioli, F. Iuliano, M.J. Vellekoop, "A microfluidic system for full hydrodynamic focusing control", *Euroensors XV*, 2011, Athens, Greece.

Programy: COST

2.) 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:	žiadne

Dosiahnuté výsledky:

Pokračovala spolupráca fungujúcej siete laboratórií riešiacich problematiku RNA variability, gene silencing, produkcie dvojláknovej RNA a krížovej ochrany.

S cieľom nájdenia alternatívneho lacného a ekologicky prijateľného nosiča sme testovali súbor viacerých lacných a netoxických materiálov ako potenciálnych nosičov DNA. Celite 512 bol schopný úspešne dodať cDNA do rastlín *Nicotiana benthamiana* a indukovať ich infekciu.

Pokračovali sme v štúdiu genetickej variability niektorých RNA vírusov pomocou parciálnej alebo úplnej sekvenácie ich genómu (*Plum pox virus*, *Watermelon mosaic virus*, *Zucchini yellow mosaic virus*, *Grapevine fleck virus*).

Vedecké výstupy:

Nagyová A, Predajňa L, Glasa M, Šubr Z (2011): An alternative and ecological source of microprojectils for biolistic DNA delivery into plant tissues. *Acta Virologica*, 55: 365 – 366.

3.) 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:	podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

V roku 2011 sa vedeckí pracovníci VÚ SAV (S. Pastoreková, J. Tomášková, L. Csáderová) zúčastnili dvoch konferencií konzorcia HypoxiaNet "Oxygen 2011" v Davose (8.-12.1.2011, s pozvanou

prednáškou) a "The impact of hypoxia on cells, mice and men" v Monte Verita, vo Švajčiarsku. Okrem toho sa S. Pastoreková zúčastnila na pracovnom stretnutí niektorých členov konzorcia k príprave nového projektu Rámcového programu EÚ.

Programy: 7RP

4.) Kontrola vírusu šarky so zreteľom na rozširovanie EÚ

(Containment of shark 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:	7 RP EU: 17998 € podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Určili sme dve kompletne a ďalšie parciálne sekvencie súboru izolátov vírusu šarky slivky (PPV) patriacich do nedávno etablovaného, a doteraz veľmi málo študovaného kmeňa PPV-W. Zistili sme, že vnútrokmeňová variabilita PPV-W bola značne vyššia v porovnaní s variabilitou iných kmeňov, čo môže mať potenciálne dôsledky pre sérologickú detekciu PPV-W izolátov. Vyvinuli sme pár diagnostických primerov pre špecifickú detekciu doteraz dostupných PPV-W pomocou RT-PCR. Charakterizácia nových PPV-W izolátov poskytla nové poznatky o evolučnej histórii PPV-W ako samostatnej línie PPV, podporuje hypotézu o ich východoeurópskom pôvode a otvára cestu k biologickej a epidemiologickej charakterizácii tohto veľmi málo známeho, avšak potenciálne emergujúceho PPV kmeňa.

Súbor PPV-D/PPV-Rec a PPV-M/PPV-D infekčných chimér bol zhodnotený na základe symptomatológie na paneli bylinných experimentálnych hostiteľov, z ktorých *Nicotiana occidentalis* a *Nicandra physaloides* sa ukázali ako vhodné pre ich fenotypovú diferenciáciu na základe kmeňovej príslušnosti. Výsledky dokázali vplyv P1/HC časti genómu na rozdielnu expresiu symptómov.

Participovali sme na vypracovaní dokumentu "Identifikácia a zhodnotenie management možností pre šarku", ktorý môže byť aplikovaný pri limitácii rizík vstupu, založenia epidémie a rozšírenia vírusu šarky slivky v Európskej únii.

Vedecké výstupy:

Glasa M, Malinowski T, Predajňa L, Pupola N, Dekena D, Michalczuk L, Candresse T (2011) Sequence variability, recombination analysis, and specific detection of the W strain of Plum pox virus. *Phytopathology* 101: 980-985.

5.) 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 Méditerranée, Marseille
Počet spoluriešiteľských inštitúcií:	8 - Nemecko: 2, Francúzsko: 2, Veľká Británia: 2, Švajčiarsko: 1, Slovinsko: 1
Čerpané financie:	Európska komisia: 76652 € podpora medzinárodnej spolupráce z národných zdrojov: 10248 €

Dosiahnuté výsledky:

V rámci plnenia stanovených cieľov projektu v rámci pracovného balíka pre BSL 3 sme v tomto roku pokračovali vo vyhodnocovaní a optimalizácii procesov prípravy vírusových zásobných suspenzií a navyše na vývoj metód pre zvyšovanie koncentrácie vírusov vo finálnom produkte. Takisto sme pokračovali v revitalizácii a genetickej charakterizácii historických izolátov arbovírusov tak, aby ich spĺňali požadované kritériá a bolo ich možné zaradiť do Európskeho vírusového archívu. Do vírusového katalógu sme vložili 13 vírusových produktov a v rámci tzv. transnárodných aktivít sme poskytli 8 produktov 4 inštitúciám zo 4 Európskych krajín.

V rámci neustáleho obohacovania archívu o nové vírusy sme izolovali a charakterizovali nový izolát hantavírusu Dobrava-Belgrade zo smrteľného prípadu hemoragickej horúčky s renálnym syndrómom v Rusku.

Vedecké výstupy:

KRÜGER, D.H. - SCHONRICH, G. - KLEMPA, Boris. Human pathogenic hantaviruses and prevention of infection. In Human Vaccines, 2011, vol. 7, no. 6, p. 685 - 693. (2.042 - IF2010). ISSN 1554-8619.

DZAGUROVA, T.K. - WITKOWKI, P.T. - TKACHENKO, E.A. - KLEMPA, Boris - MOROZOV, V.G. - AUSTE, B. - ZAVORA, D.L. - IUNICHEVA, I.V. - MUTNIH, E.S. - KRUGER, D.H. Isolation of Sochi Virus from a Fatal Case of Hantavirus Disease with Fulminant Clinical Course. In Clinical Infectious Diseases, 2011, p. 1 - 4. (8.186 - IF2010). (2011 - Current Contents). ISSN 1058-4838.

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:	7 RP EÚ: 121316 € podpora medzinárodnej spolupráce z národných zdrojov: 7772 €

Dosiahnuté výsledky:

V roku 2011 sme ukončili experimenty, pomocou ktorých sme objasnili biologický význam a molekulárny mechanizmus fosforylácie Thr443 v intracelulárnej časti proteínu CA IX. Zistili sme, že fosforyláciu Thr443 uskutočňuje hypoxiou aktivovaná proteín kináza A (PKA). Ukázali sme, že fosforylácia Thr443 pomocou PKA je dôležitá pre schopnosť CA IX regulovať nádorovú acidózu a bunkovú migráciu. Okrem toho sme tiež ako prví na svete podali dôkaz in situ o interakcii CA IX s bikarbonátovými transportérmi v lamelipódiách migrujúcich nádorových buniek a demonštrovali sme význam katalytickej domény pre pro-migračné vlastnosti CA IX.

Vedecké výstupy:

Ditte P, Dequiedt F, Svastova E, Hulikova A, Ohradanova-Repic A, Zatovicova M, Csaderova L, Kopacek J, Supuran CT, Pastorekova S, Pastorek J. Phosphorylation of Carbonic Anhydrase IX Controls Its Ability to Mediate Extracellular Acidification in Hypoxic Tumors. *Cancer Res.* 2011 Dec 15;71(24):7558-67. Epub 2011 Oct 28.

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.* 2011 Dec 14.[Epub ahead of print]

7.) 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:	7RP EÚ: 8833 €

Dosiahnuté výsledky:

V prvom roku riešenia sme na projekt prijali zahraničnú pracovníčku v pozícii ESR (výskumník-začiatok), ktorá nastúpila na VÚ SAV v októbri. Uskutočnili sme tiež úvodné experimenty, ktorých cieľom bolo charakterizovať bunkové línie derivované z karcinómov prsníka vzhľadom na expresiu vybraných nádorových markerov (CA IX, CD44, MICA, p53) na úrovni mRNA a proteínov. Výsledky zatiaľ neboli publikované. Okrem toho sme v septembri 2011 v Bratislave zorganizovali 2. generálny míting projektového konzorcia spojený s prezentáciou zámerov a predbežných výsledkov jednotlivých partnerov.

8.) 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:	EÚ: 99769 € Podpora medzinárodnej spolupráce z národných zdrojov: 20515 €

Dosiahnuté výsledky:

Koncepcia riešenia projektu FLUPHARM spočíva v príprave protichrípkových látok novej generácie, ktoré sú cielené na vírusovú polymerázu. Táto stratégia je založená na detailnom poznaní štruktúry RNA polymerázového komplexu, zloženého z troch subjednotiek: PA, PB1 a PB2 proteínov. Naši projektoví partneri pripravujú nové susbtancie, ktoré spĺňajú uvedené kritériá. Z množstva nasyntetizovaných látok sa in vivo testujú len tie, ktoré majú vyhovujúci polčas rozpadu a neinterferujú so základnými metabolickými procesmi v bunke. Toxicitu doposiaľ navrhnutých nových substancií sme v našej pracovnej skupine testovali in vitro na MDCK bunkách ako aj in vivo v rôznych koncentračných rozsahoch, v závislosti od testovanej látky. Tie reagenty, ktoré neboli toxické in vitro a mali inhibičný účinok na replikáciu vírusu v oblasti netoxických koncentrácií, boli vybrané pre in vivo štúdium antivírusového účinku danej látky, kde sa ako experimentálny model používajú inbredné myši, pretože sú vnímavé na chrípkovú infekciu. Myši boli infikované letálnou dávkou vírusu a perorálne im bola podávaná testovaná substancia. Prežívanie myší po aplikácii antivirotika a klinické príznaky ochorenia sa porovnávali s kontrolnými, neliečnými skupinami myší a výsledky sa štatisticky vyhodnotili. Stanovil sa index protektivity každej testovanej látky, ktorý sa konfrontoval s dnes najpoužívaným antivirotikom, Tamiflu.

Vedecké výstupy:

Výstupy z riešenia projektu budú predmetom patentovania, preto nemôžu byť zverejnené.

Programy: Multilaterálne - iné

9.) 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:	nemá
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 rámci mobility vedeckých pracovníkov zúčastnených na riešení projektu, bol pre Mgr. Petru Bullovú zabezpečený dvojročný pracovný pobyt v NIH.

Programy: Bilaterálne - iné

10.) Objasnenie mechanizmu tolerancie proti zatopeniu pri soji pomocou proteomických techník

(Elucidation of tolerance mechanism against flooding in soybean using proteomics technique)

Zodpovedný riešiteľ:	Martin Hajduch
Zodpovedný riešiteľ v organizácii SAV:	Ľudovít Škultéty
Trvanie projektu:	1.4.2009 / 31.3.2011
Evidenčné číslo projektu:	0
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Mgr. Martin Hajdúch, Ústav genetiky a biotechnológií rastlín SAV
Počet spoluriešiteľských inštitúcií:	2 - Japonsko: 2
Čerpané financie:	žiadne

Dosiahnuté výsledky:

Na objasnenie mechanizmu tolerancie sóje proti zatopeniu sme použili proteomické techniky, ktoré sa zamerali najmä na odhalenie výskytu zmien v hladinách expresie a úrovne fosforylácie. Dvojdňové klíčky sóje sme zatopili na 24h a z koreňových špičiek sme extrahovali proteíny, ktoré sme následne poštípili trypsínom. Použitie proteomických techník [1, 2] založených na hmotnostnej spektrometrii nám umožnilo porovnať hladiny expresie jednotlivých proteínov a ich fosforylačný stav. V dôsledku zaplavenia sme pozorovali zvýšenie expresie proteínov súvisiacich s produkciou energie a na druhej strane zníženie expresie proteínov, ktoré súvisia so zbalovaním proteínov a zachovaním bunkovej štruktúry. Zatopenie vyvolalo aj zmeny v stave fosforylácie proteínov, ktoré sa najviac prejavili u tých, ktoré boli zapojené do tvorby energie, syntézy proteínov a zachovaním bunkovej štruktúry. Zdá sa nám, že proteíny, ktoré sú zapojené do metabolických dráh súvisiacich s tvorbou a správou energie sú regulované v dôsledku zatopenia zmenami v stave fosforylácie [3].

Vedecké výstupy:

Klubicova, K., Bercak, M., Danchenko, M., Skultety, L., Rashydov, NM., Berezhna, VV., Miernyk, JA., Hajduch, M. Agricultural recovery of a formerly radioactive area: I. Establishment of high-resolution quantitative protein map of mature flax seeds harvested from the remediated Chernobyl area. *Phytochemistry* 72(10), 2011, 1308-1315. DOI: 10.1016/j.phytochem.2010.11.010

Klubicova, K., Danchenko, M., Skultety, L., Berezhna, VV., Hricova, A., Rashydav, NM., Hajduch, M. Agricultural recovery of a formerly radioactive area: II. Systematic proteomic characterization of flax seed development in the remediated Chernobyl area. *J. Proteom.* 74(8), 2011, 1378-1384. DOI: 10.1016/j.jprot.2011.02.029. IF: 5.074

Nanjo, Y., Skultety, L., Uváčková, L., Klubicová, K., Hajduch, M., Komatsu, S. Mass Spectrometry-Based Analysis of Proteomic Changes in the Root Tips of Flooded Soybean Seedlings. *J Proteome Res.* 11, 2012, 372–385. DOI: 10.1021/pr200701y. IF: 5.074

11.) 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:	The Royal Society: 715 €

Dosiahnuté výsledky:

Hlavným zameraním projektu je budovanie medzinárodnej spolupráce a vzájomný prenos technológií a skúseností medzi partnerskými organizáciami. konkrétnym vedeckým zameraním je sledovanie vplyvu vírusového obalového proteínu E na prenos vírusu kliešťovej encefalitídy kliešťami v prírode. V prvom roku prišlo ku dvom vzájomným kratším návštevám oboch partnerov. výsledkom je zavedenie metodík RNA transfekcie eukaryotických buniek za účelom prípravy rekombinantných vírusov na našom pracovisku a zároveň oboznámenie sa doktorandskej študentky z Readingu s technikami manipulácie kliešťov a infekcie vírusom kliešťovej encefalitídy. Časť projektu, zahŕňajúca študijný pobyt pre Slovenského partnera v laboratóriu v Readingu, je zameraná na zavádzanie bodových mutácií do obalového proteínu E s použitím infekčného klonu vírusu kliešťovej encefalitídy je naplánovaná na budúci rok.

12.) Vnútrobunkový životný cyklus *Francisella piscicida* v atlantickej 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:

Z buniek *Francisella piscicida* (nový názov *F. noatunensis*) sa izoloval lipopolysacharid (LPS) pomocou modifikovanej metódy fenol-voda. Na LPS sa pôsobilo enzýmami s cieľom odstrániť zbytkové proteíny a nukleové kyseliny. Základné chemické zloženie LPS sa stanovilo kombináciou kolorimetrických metód a plynovou chromatografiou v kombinácii s hmotnostnou spektrometriou (GC-MS). Zistilo sa, že LPS je zložený z nasledovných konštitučných sacharidov ramnóza, fukóza, manóza, glukóza a quinovozamín (v mólových %) 6,2:32,4:13,6:44,8:3,0. Imunoreaktivita LPS z *F. noatunensis* bola pomerne slabá v porovnaní so silnou kapacitou LPS z *Escherichia coli* indukovať gény zodpovedné za spustenie inflamatórnej odpovede.

Výsledky neboli zatiaľ publikované.

Programy: European Regional Development Fund (ERDF)

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

(Combined innovative methods to improve the health status and the quality of 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:	ER: 33404 €

Dosiahnuté výsledky:

Zanalyzovala sa databáza sekvencií vírusu šarky slivky (PPV) a vírusu chlorotickej škvrnitosti jablone (ACLSV) z dostupných údajov a údaje boli použité na dizajnovanie špecifických diagnostických primerov. Bol zoptimalizovaný dvojkrokový protokol pre RT-PCR (využitím imunovychytávania pre cDNA syntézu) pre detekciu PPV a ACLSV. Otestovalo a sekvenčne sa zanalyzovalo viac než 100 vzoriek zo sádov západného, južného a východného Slovenska (RT-PCR bola zacielená na CP a P3-6K1 gény pri PPV a CP gén pri ACLSV. V prípade ACLSV sa zhodnotila intra-izolátová molekulárna diverzita 3 ACLSV izolátov, pričom sa dokázal nielen kvázidruhový charakter vírusovej populácie, ale i možnosť zmesnej infekcie viacerými izolátmi v jednej vzorke. Získané sekvencie boli porovnané s referenčnými izolátmi. Bola založená in vitro kultúra *Prunus domestica* a *P. cerasifera* na štúdium interakcií vírus/rastlina. Rovnako sa otestoval systém na PPV inokuláciu rastlín voškami.

Projekty národných agentúr

Programy: VEGA

1.) Molekulárne mechanizmy regulácie a funkcie endosialínu, hypoxiou indukovaného markera nádorovej angiogenézy

(Molecular mechanisms of regulation and function of endosialin, a hypoxia-inducible marker of tumor angiogenesis)

Zodpovedný riešiteľ:	Monika Baráthová
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0210/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9786 €

Dosiahnuté výsledky:

Pokračovali sme v charakterizácii monoklonových protilátok špecifických voči endosialínu. Pomocou delečných mutantov endosialínu sme dokázali ich doménovú špecifickosť. Prostredníctvom buniek exprimujúcich regulačné oblasti génu kódujúceho endosialín sme analyzovali vplyv pro-angiogénnych faktorov VEGF, PDGF, bFGF, EGF na aktiváciu promotora pri zníženej koncentrácii séra v normoxii a hypoxii. V bunkách s prirodzenou expresiou endosialínu sme pomocou špecifických inhibítorov analyzovali vplyv vybraných signálnych dráh na expresiu endosialínu. Efekty konštitutívnej expresie endosialínu sme analyzovali kultiváciou buniek v 3D systéme vo forme sferoidov, ktoré vernejšie napodobňujú podmienky a interakcie vyskytujúce sa v nádoroch.

Vedecké výstupy:

KONTSEKOVÁ, Soňa - OHRAĐANOVÁ - REPIC, Anna - POLČICOVÁ, Katarína - TUOMAALA, Pauliina - PASTOREK, Jaromír - PASTOREKOVÁ, Silvia - PARKKILA, Seppo and BARÁTHOVÁ, Monika:
Novel monoclonal antibodies specific for CTLD and sialomucin domains of endosialin, a mural cell marker of tumor vasculature. - zaslané do redakcie International Journal of Oncology

2.) Identifikácia vybraných bioaktívnych látok produkovaných v slinách kliešťov

(Identification of selected bioactive molecules secreted in tick saliva)

Zodpovedný riešiteľ:	Pavína 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: 6572 €

Dosiahnuté výsledky:

Jedným z cieľov nami riešeného projektu je identifikácia nami hľadaných imunomodulačných látok pomocou sekvenovania, klonovania do eukaryotických systémov a príprava rekombinovaných proteínov. Preto sme sa rozhodli u dvoch druhov kliešťov, *Dermacentor reticulatus* a *Rhipicephalus appendiculatus*, nájsť homológy evasínov, proteínov viažúcich chemokíny, pôvodne identifikovaných v slinných žľazách kliešťov *Rhipicephalus sanguineus*. Po izolácii totálnej RNA z oboch druhov kliešťov sme pomocou AP primerov nasyntetizovali prvé vlákno cDNA. Pomocou nami navrhnutých degenerovaných primerov pre Evasin-3 a AUAP primerov sme z cDNA *D. reticulatus* získali produkty o veľkosti cca 500bp, 350bp a 300bp. Po sekvenčnej analýze pcr produktov, sme identifikovali pomocou BLASTn podobnosť s *Dermacentor andersoni* clone DA E1224_08F03_TEx2Seq1Tick SMART cDNA Library *Dermacentor andersoni* cDNA. Navrhli sme si ďalšie degenerované primery. Pomocou 5' a 3' RACE PCR sme získali pcr produkty, ktoré vykazujú podobnosť s clone DA_E1224_10G04Tick SMART cDNA Library *Dermacentor andersoni* cDNA. Oba úseky cDNA z *D. andersoni* boli identifikované v slinných žľazách kliešťa počas prvých hodín cicania. Navrhli sme novú sériu primerov a momentálne prebieha ich testovanie. V prípade kliešťa *Rhipicephalus appendiculatus* sme postupovali rovnako, pomocou univerzálnych AP primerov sme syntetizovali prvé vlákno cDNA a následne cez AUAP a nami navrhnuté degenerované primery na Evasin3 sme získali 3 pcr produkty s veľkosťou 350bp, 400bp a 500bp, ktoré sme po ich izolácii poslali na sekvenčnú analýzu. Pomocou BLASTn sme identifikovali podobnosť s clone RAABB71 gb/CD784135.1 EST 655496 RAA *Rhipicephalus appendiculatus* cDNA, a na základe toho sme navrhli sadu nových primerov, s pomocou ktorých sme v 5' a 3' RACE PCR získali nové pcr produkty, ktoré sme zaslali na sekvenovanie. Experimenty stále pokračujú.

3.) Príprava malých interferujúcich RNA (siRNA) s terapeutickým účinkom proti vírusom chripky

(Construction of small interfering RNA (siRNA) against influenza viruses)

Zodpovedný riešiteľ:	Tatiana Betáková
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0018/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9275 €

Dosiahnuté výsledky:

Pri požiari v roku 2010 sme prišli o materiál, konštrukty siRNA a výsledky. V tomto roku sme obnovili prácu v laboratóriu. Pomocou softvéru siRNA Digest Toll (Promega) sme nadizajnovali niekoľko možných oligonukleotidov na prípravu siRNA namierených proti M a NS génom vírusu chrípky H1N1 A/PR/8/34. Pripravili sme plazmidy psi STRIKE hMGFP-siRNA, ktoré exprimovali siRNA pod U6 promótorom. Tieto siRNA sme otestovali na MDCK bunkách s dvoma rôznymi kmeňmi vírusov chrípky: H1N1 A/PR/8/34 a H7N7 A/FPV/Germany/27. Niektoré siRNA proti M génu inhibovali replikáciu homológneho vírusu na 30-50%, kým replikáciu heterológneho kmeňa inhibovali cca na 15%. siRNA namierené proti NS génu boli účinnejšie a inhibovali replikáciu homológneho vírusu až na 90 % a replikáciu heterológneho kmeňa na 50%.

Vedecké výstupy:

BOROVSKÁ, Petra - KOŠÍKOVÁ, Martina - SVETLÍKOVÁ, Darina - BETÁKOVÁ, Tatiana. Testovanie inhibičného účinku siRNA na replikáciu vírusu chrípky in vitro. In Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov [elektronický zdroj]. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 61 - 66. ISBN 978-80-223-3013-8

BOROVSKÁ, Petra - SVETLÍKOVÁ, Darina - BETÁKOVÁ, Tatiana. Inhibícia replikácie vírusu chrípky pomocou RNA interferencie. In Tomáškovy dny 2011 : Sborník abstraktu. - Brno, 2011, p. 14.

4.) 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:

Dokázal sa len 30%-ný prenos nanočastíc do nádorových buniek, v porovnaní s netransformovanými bunkami. Značenie povrchu nádorových buniek ruténiouvou červeňou ukázalo viacnásobný nárast glykokalixu na povrchu nádorových buniek, čo pravdepodobne znižuje prenikanie nanočastíc do týchto buniek.

5.) 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: 8008 €

Dosiahnuté výsledky:

Pre štúdium funkcie proteínu S100P v kontrole bunkových procesov pomocou jeho deregulácie v nádorových bunkových líniách sme nadizajnovali siRNA/shRNA namierené voči ORF S100P a model RNA interferencie.

Optimalizovali sme metódy prípravy a purifikácie fúzneho proteínu S100P pre ďalšie etapy proteomickej analýzy. Tento proteín ako aj jeho mutované varianty sme použili na koprecipitáciu s proteínovými lyzátmi rôznych ľudských bunkových línií za účelom nájdenia možného väzobného partnera.

Vedecké výstupy:

GIBADULINOVÁ, Adriana - TÓTHOVÁ, Veronika - PASTOREK, Jaromír - PASTOREKOVÁ, Silvia. Transcriptional regulation and functional implication of S100P in cancer. In Amino Acids, 2011 Oct;41(4):885-92. Epub 2010 Feb 14. PMID:20155429

TOTHOVÁ, V. - ISOLA, J. - PARKKILA, S. - KOPACEK, J. - PASTOREK, J. - PASTOREKOVÁ, S. - GIBADULINOVÁ, A. - Glucocorticoid receptor-mediated transcriptional activation of S100P gene coding for cancer-related calcium-binding protein. In: J Cell Biochem. 2011 Nov;112(11):3373-84. doi: 10.1002/jcb.23268. PMID: 21751241

6.) 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: 8603 €

Dosiahnuté výsledky:

Na základe sérologických testov (DAS-ELISA) sa zistilo široké zastúpenie vírusu škvrnitosti viniča (GFkV) vo výsadbách viniča na Slovensku. Určila sa sekvencia vyše 30 izolátov zacielená na gén kódujúci obalový proteín (CP). Fylogenetická analýza dokázala existenciu dvoch odlišných

genetických skupín vírusu. Genetická diverzita vírusu zvinutky viniča 1 sme sledovali parciálnou sekvenáciou genómu. Na základe získaných výsledkov sme zistili vysokú diverzitu vírusu na území Slovenska. Molekulárna variabilita 2 izolátov hospodársky významných vírusov viniča - GLRaV-3 a vírusu mozaiky arábky sa určila na základe dlhších genómových sekvencií. Získané výsledky významne obohacujú súčasné poznanky o variabilite týchto vírusov, s potenciálom ďalšieho vylepšenia diagnostických postupov.

Vedecké výstupy:

Glasa M, Predajňa L, Komínek P (2011): Grapevine fleck virus isolates split into two distinct molecular groups. *Journal of Phytopathology* 159: 805-807.

7.) Úloha kliešť'ov v šírení gamaherpesvírusov v prírode

(Role of ticks in the circulation of gammaherpesviruses in nature)

Zodpovedný riešiteľ:	Valéria Hajnická
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0040/09
Organizácia je koordinátorom projektu:	nie
Koordinátor:	RNDR. Mirko Slovák, CSC., Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	žiadne

Dosiahnuté výsledky:

V Európe sú hľadavce dôležitými hosťiteľmi pre nedospelé vývinové štádiá kliešť'a *Ixodes ricinus*, ktorý je vektorom takých ľudských patogénov, ako vírus kliešť'ovej encefalitídy a *Borrelia burgdorferi*. Na zistenie, či kliešte môžu byť biologickými vektormi aj myších gamaherpesvírusov, sledovali sme schopnosť kliešť'ov *I. ricinus* získať a preniesť MHV-68 na hostiteľa, laboratórnu myš. Nymfy kliešť'a *I. ricinus*, ktoré sa vyvinuli z lariev cicajúcich na MHV-68 infikovaných myšiach boli schopné preniesť vírus na neinfikované myši v 28.5%. Dospelé kliešte vyvinuté z nýmfi, ktoré cicali na infikovaných myšiach boli schopné preniesť vírus v 27.3% v prvom pokuse a 15.4% v druhom pokuse. Zdá sa, že okrem vírusu africkej horúčky prasiat sa môžu kliešte podieľať na prenose a šírení v prírode aj ďalšieho DNA vírusu - MHV-68.

Vedecké výstupy:

AFHB01146151 HALÁSOVÁ, Zuzana - HAJNICKÁ, Valéria - ŠTIBRÁNIOVÁ, Iveta - KÚDELOVÁ, Marcela - CHALUPKOVÁ, A. - BARTÍKOVÁ, Pavlína - SLOVÁK, Mirko. Experimentálny prenos myšieho gamaherpesvírusu MHV-68 kliešť'ami *Ixodes ricinus*. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 54. ISBN 978-80-970692-5-4.

8.) 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: 1584 €

Dosiahnuté výsledky:

Otestovali sme aktivitu IFN- lambda na MDCK, Vero, A549 a HeLa bunkách. Predbežné výsledky sme prezentovali na študentskej konferencii.

Vedecké výstupy:

ŠKORVANOVÁ, Lucia - SVETLÍKOVÁ, Darina - KABÁT, Peter - BETÁKOVÁ, Tatiana. Vplyv IFN-lambda2 na replikáciu vírusu chrípky typu A na A549, Vero, MDCK a HeLa bunkách. In Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov [elektronický zdroj]. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 695 - 700. ISBN 978-80-223-3013-8.

9.) Hemoragická horúčka s renálnym syndrómom na Slovensku: Medicínsky význam a molekulárna evolúcia hantavírusu Dobrava

(Hemorrhagic fever with renal syndrome in Slovakia: medical importance and molecular evolution of Dobrava hantavirus.)

Zodpovedný riešiteľ:	Boris Klempa
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0189/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 10365 €

Dosiahnuté výsledky:

V poslednom roku projektu, zameranom na evolúciu a patogenézu hantavírusu Dobrava-Belgrade (DOBV), sme ukončili charakterizáciu nového vírusového izolátu, reprezentujúceho stredoeurópsku vývinovú líniu vírusu DOBV-Aa prenášanú hľodavcom ryšavka tmavopása (*Apodemus agrarius*). V spolupráci s Charité Berlin v Nemecku sme ukázali, že DOBV, podobne ako iné vysokopatogénne hantavírusy Hantaan či Sin Nombre, využíva ako vírusový receptor pre vstup do bunky beta3 integríny. Viazanie beta3 integrínov je považované za jeden z najvýznamnejších faktorov patogenity hantavírusov, ktoré spôsobuje zvýšenie priepustnosti endoteliálnych buniek. Okrem toho sme ukázali, že vstupu vírusu do bunky môže byť zabránené aj blokovaním molekuly DAF (decay accelerating factor). Okrem toho sme ukázali, že infekcia DOBV-Aa v bunkovej línii A549 vedie k expresii interferónu lambda, ktorý je následne zodpovedný za indukciu antivírusového proteinu MxA. Získané výsledky, ktoré ukázali vysoký patogénny potenciál DOBV hantavírusu, boli zaslané na publikovanie v časopise Plos One a článok je momentálne v revízii ("minor revision"). Navyše, výsledky a skúsenosti v oblasti molekulárnej biodiverzity a patogenézy DOBV získané v rámci projektu boli využité pri napísaní kapitoly o molekulárnej diagnostike DOBV a napísaní review článku o patogénnych hantavíruoch a ich prevencii ich infekcií.

Vedecké výstupy:

KRÜGER, D.H. - KLEMPA, Boris. Dobrava - Belgrade Virus. In Molecular Detection of Human Viral Pathogens. - New York : CRC Press Group Taylor & Francis, 2011, p. 735 - 747. ISBN 1-4398-1236-5.

KRÜGER, D.H. - SCHONRICH, G. - KLEMPA, Boris. Human pathogenic hantaviruses and prevention of infection. In Human Vaccines, 2011, vol. 7, no. 6, p. 685 - 693. (2.042 - IF2010). ISSN 1554-8619.

10.) Význam ektoparazitických článkonožcov (roztáčov 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:	SAV: 4927 €

Dosiahnuté výsledky:

V intarviláne Bratislavy bol sledovaný výskyt a sezónna aktivita (marec – november) kliešťov I. ricinus a H.concinna.(10) Potvrdil sa význam kliešť'a I.arboricola pri prenose nie len borélii ale aj rickettsii a anaplasmiem.(1) Premorenosť kliešťov Dermacentor marginatus a D.reticulatus rickettsiami R.raoultii a R.slovaca bola vyššia ako v minulých rokoch, čo je spôsobené pravdepodobne aj dokonalejšími molekulárne-biologickými metódami ktoré sme použili.(3,4) Dokázal sa aj vyšší výskyt rickettsii a anaplasmiem vo vektoroch a hostiteľoch v prírodných ohniskách. (2,9,7,11) Na základe výsledkov odporúčame v laboratórnej diagnostike vyšetrovať rickettsie a iné zoonózy, a to u pacientov so suspektnými infekciami spôsobenými kliešťami na Slovensku.(5,6)

Vedecké výstupy:

ŠPITÁLSKA, Eva - LITERÁK, I. - KOCIANOVÁ, Elena - TARAGEL'OVÁ, Veronika. The importance of Ixodes arboricola in Transmission of Rickettsia spp. Anaplasma phagocytophilum, and Borrelia burgdorferi Sensu Lato in the Czech Republic Central Europe. In Vector-Borne and Zoonotic Diseases, 2011, vol. 11, no. 9, p. 1235 - 1241.

ŠTEFANIDESOVÁ, Katarína - ŠPITÁLSKA, Eva - KRKOŠ, I. - SMETANOVÁ, E. - KOCIANOVÁ, Elena. Anaplasma phagocytophilum and other tick-borne bacteria in wild animals in western Slovakia. In Biológia, 2011, vol. 66, no. 6, p. 1087 - 1090.

BALÁŽOVÁ, V. - PJECHOVÁ, M. - KOCIANOVÁ, Elena - ŠPITÁLSKA, Eva. Identifikácia Rickettsia slovaca analýzou PCR-RFLP sca4 génu. In Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov [elektronický zdroj]. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 16 – 21

ŠPITÁLSKA, Eva - ŠTEFANIDESOVÁ, Katarína - PJECHOVÁ, M. - BALÁŽOVÁ, V. - KOCIANOVÁ, Elena - BOLDIŠ, Vojtech. Rickettia slovaca vs.Rickettsia raoultii in Slovak Republic. In 7th Ticks and Tick-borne pathogens International Conference-Proceedings of abstracts. - Zaragoza, Spain, 2011, p. 366.

VÝROSTEKOVÁ, V. - GURYČOVÁ, D. - KOCIANOVÁ, Elena - SLOVÁK, Mirko. Francisella Tularensis in ticks from an endemic region of Tularemia in Slovakia. In 7th Ticks and Tick-borne pathogens International Conference-Proceedings of abstracts. - Zaragoza, Spain, 2011, p. 227.

KOČIANOVÁ, Elena - ŠPITÁLSKA, Eva - SEKEYOVÁ, Zuzana - VYROSTEKOVÁ, V. Prehľad kliešťami prenášaných rickettsií vyskytujúcich sa na Slovensku. In Zoonózy - spoločná ochrana zdravia ľudí a zdravia zvierat II.cirkulár - Zborník abstraktov - III.Kongres s medzinárodnou účasťou. - Bratislava, Štátna veterinárna a potravinová správa SR-aula, 2011, p. 50-51.

BALÁŽOVÁ, V. - PJECHOVÁ, M. - KOČIANOVÁ, Elena - ŠPITÁLSKA, Eva. Premorenosť kliešťov (Ixodidae) rickettsiálnymi mikroorganizmami počas parazitácie na hostiteľských zvieratách. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni: Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 21. JAREKOVÁ, J. - BAKOSS, P. - MACHÁČOVÁ, E. - STANKO, Michal - KOČIANOVÁ, Elena. Prírodné ohniská leptospirózy na Slovensku (r.1999-2008). In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 37. ISBN 978-80-970692-5-4.

PJECHOVÁ, M. - BALÁŽOVÁ, V. - KOČIANOVÁ, Elena - ŠPITÁLSKA, Eva. Výskyt rickettsií (Rickettsia slovaca, R. raoulti) v kliešťoch rodu Dermacentor v prírodných podmienkach Slovenska. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni: Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 20. ISBN 978-80-970692-5-4.

SOPKOVÁ, M. - KOČIANOVÁ, Elena. Výskyt kliešťov čeľade Ixodidae v intraviláne Bratislavy. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 14. ISBN 978-80-970692-5-4.

ŠTEFANIDESOVÁ, Katarína - ŠPITÁLSKA, Eva - KRKOŠ, I. - KOČIANOVÁ, Elena. Výskyt anaplazmózy u lovej zveri na západnom Slovensku. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava, Virologický ústav SAV, 2011, s. 48. ISBN 978-80-970692-5-4.

11.) Štúdium funkcie hypoxiou-indukovanej karbonickej anhydrázy IX v nádorovom fenotype pomocou indukovateľnej RNA interferencie

(Study of hypoxia inducible carbonic anhydrase IX function in the tumor phenotype utilizing inducible RNA interference)

Zodpovedný riešiteľ:	Juraj Kopáček
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0194/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7513 €

Dosiahnuté výsledky:

V kompaktných nádoroch dochádza počas intenzívneho rastu v dôsledku nedostatočného zásobovania kyslíkom k vytváraniu hypoxických oblastí. Následne hypoxia vytvára selekčný tlak s následnou selekciou buniek, ktoré sa dokážu adaptovať na tieto stresové podmienky. Nádor nie je tvorený iba nádorovými bunkami ale aj bunkami strómy. Komunikácia medzi nádorovými a stromálnymi bunkami je dôležitá pre vývoj nádoru a jeho metastazovanie. Karbonická anhydráza IX patrí medzi gény, ktorých expresia je najvýraznejšie indukovaná hypoxiou. Dôležitosť CA IX vo fyziológii nádorov nás inšpirovala k príprave shRNA indukovateľného systému za účelom štúdia

zmien v génových profiloch kontrolných a CA9 silencovaných bunkách. Podarilo sa nám identifikovať 109 rozdielne exprimovaných génov ako aj niektoré signálne bunkové dráhy. Jednou z najviac ovplyvnených dráh bola fokálna adhézia. Pomocou funkčných analýz sme potvrdili, že bunky so zníženou expresiou CA9 majú zníženú schopnosť adhérence k povrchu a taktiež migrácie cez kolagénový matrigél. Z našich výsledkov je zrejmé, že CA IX zohráva dôležitú úlohu pri udržiavaní bunecnej integrity, adhérence, mobility a migrácie.

Vedecké výstupy:

Modulácia expresie Karbonickej anhydrázy IX pomocou RNA interferencie a jej vplyv na nádorové bunky. Peter Radvák, Drobnicov memoriál, 21-23. Septembra, Piešťany, Príspevok získal ocenenie

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

(Selected pathogenetic parameters of experimental 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: 9531 €

Dosiahnuté výsledky:

Sledovali sa parametre protilátkovej odpovede voči fúznemu proteínu HA2gp a ektodomény M2 proteínu vírusu chrípky. Sledované parametre sa porovnali aj s ohľadom na protektivitu myší pred letálnou chrípkovou infekciou.

Vedecké výstupy:

KIRÁLY, J. - VAREČKOVÁ, Eva - MUCHA, Vojtech - KOSTOLANSKÝ, František. Evaluation of anti-influenza efficiency of polyclonal IgG antibodies to the ectodomain of M2 protein of influenza A virus by passive immunization of mice. In Acta Virologica : international journal, 2011, vol. 55, no. 3, p. 261 -266. (0.547 - IF2010). (2011 - Current Contents). ISSN 0001-723X.

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, 2011, vol., no., p. (3.812 - IF2010). (2011 - Current Contents). ISSN 1750-2640. Prijaté do tlače.

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, 2011, vol. 55, no. 1, p. 61 -68. (0.547 - IF2010). (2011 - Current Contents). ISSN 0001-723X.

13.) Databáza slovenských izolátov vírusových a mikrobiálnych fytopatogénov a ich diagnostické využitie z aspektu biologickej bezpečnosti

(Database of Slovak isolates of the viral and microbial phytopathogens and their diagnostic application from the aspect of biosafety)

Zodpovedný riešiteľ:	Otakar Kúdela
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0200/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 2580 €

Dosiahnuté výsledky:

Zosumarizovali sme výsledky prieskumu výskytu vírusov obilnín za obdobie 10 rokov. Výskyt vírusov bol sledovaný v rámci vedeckých projektov Oddelenia rastlinnej virológie a monitoringu ÚKSÚPu (Viruses of small grains in Slovakia - podané do časopisu Agriculture.). Spracovali sme tiež zoznamy ďalších fytopatogénov (zdroje - pracoviská ÚKSÚPu, VÚ SAV). Údaje by mali byť dostupné pestovateľom, fytopatologickým pracoviskám a Európskemu úradu pre bezpečnosť potravín (EFSA)-panel "Zdravie rastlín". Výsledky riešenia projektu boli ústne prezentované v rámci XVI.kolokvia EFSA v Parme.

Vedecké výstupy:

Kúdela,O(2011). Vplyv rastlinných vírusov na kvalitu a bezpečnosť potravín.In Roháčik,T.,Hudec,K.(eds.).IV.medzinárodná konferencia Slovenskej rastlinolekárskej spoločnosti,31.máj-1.jún,Nitra,pp.81-84.

Kúdela,O.,Vajciková,V.(2011).Vírusy pšenice a jačmeňa na území Slovenska.In Gallová.Z.(recenzent).Nové poznatky z genetiky a šľachtenia poľnohospodárskych rastlín.Zborník z 18.medzinárodnej vedeckej konferencie,Piešťany,8-9.november,pp.25-26.

Glasa,M.,Predajňa,L.,Kúdela,O.,Šubr.Z.(2011). Diversity and genetic structure of Apple chlorotic leaf spot virus isolates onfecting stone fruit(Prunus spp.)in Slovakia. In Nové poznatky z genetiky a šľachtenia poľnohospodárskych rastlín. Zborník z 18.medzionárodnej konferencie,Piešťany,8-9.november,pp.107-109.

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

(Study on novel protein modulator of immune response encoded by Murine gammaherpesvirus)

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: 9555 €

Dosiahnuté výsledky:

Pripravili sme dva rekombinantné plazmidy pET26b(+),s inzeriou génu M3 Myšieho herpetického vírusu 68 a 72(MHV-68 and MHV-72)a sekvencie 6xHis na C konci, ktoré sme exprimovali v E.coli BL21 (DE3) indukciou s IPTG. Optimalizovali sme podmienky kultivácie potrebné na purifikáciu M3 proteínu afinitnou chromatografiou a dokázali expresiu proteínu Western blotom za natívnych aj denaturačných podmienok.

Stanovili sme primárnu štruktúru 22,899 bp genómu MHV-72 a porovnali ich so sekvenciou štandardného kmeňa MHV-68. Sekvencia 13 štruktúrálnych a 6 neštruktúrálnych proteínov sa u MHV-72 odlišuje ôsmimi mutáciami v 4 štruktúrálnych (ORF20, ORF26, ORF48, and ORF52) a v jednom neštruktúrálnom (ORF4) proteíne. Tieto mutácie menia hydrofilicitu proteínov a tiež expozíciu ich povrchu, a tak zrejme prispievajú k špecifickým patogenetickým vlastnostiam MHV-72 in vitro a in vivo.

Ako prví sme dokázali, že nižšie vývojové štádiá kliešťov *I. ricinus* cicajúce na jaštericiach, voľne žijúcich v regióne centrálnej Európy, môžu byť infikované s MHV-68, ktorý je prirodzeným patogénom voľne žijúcich myšovitých hlodavcov. Naše výsledky potvrdzujúce prítomnosť MHV-68 v týchto kliešťoch podporujú hypotézu, že Myší herpetický vírus môže cirkulovať v prírode prostredníctvom vektora, kliešťov *I. ricinus*.

Vedecké výstupy:

KÚDELOVÁ, M - RAJČÁNI, J. Gammaherpesviruses and Oncogenesis : Chapt. III. In Nose and Viral Cancer Etiology, Pathogenesis and Treatment : Book Series: Cancer Etiology Diagnosis and Treatments. 1. vyd. - USA : Nova Science Publishers, Inc., 2010, p. 105 - 144.

HALÁSOVÁ, Z - VALOVIČOVÁ, M. - MAČÁKOVÁ, K - PANČÍK, P - BELVONČÍKOVÁ, P - REŽUCHOVÁ, I- KÚDELOVÁ, M. Partial genome sequence of murine gammaherpesvirus 72 and its analysis. In Acta Virologica : international journal, 2011, vol. 55, no. 4, p. 317 - 325. (0.547 - IF2010). (2011 - Current Contents). ISSN 0001-723X.

FICOVÁ, M. - BETÁKOVÁ, T. - PANČÍK, P. - VÁCLAV, R - PROKOP, P.- HALÁSOVÁ, Z - KÚDELOVÁ, M. Molecular Detection of Murine Herpesvirus 687 in Ticks Feeding on Free-living Reptiles. In Microbial Ecology, 2011, vol. 62, p. 862 - 867. (2.875 - IF2010). (2011 - Current Contents). ISSN 0095-3628.

PANČÍK, P- BAUEROVÁ-HLINKOVÁ, V - HALÁSOVÁ, Z - KÚDELOVÁ, M. Expresia proteínu M3 Myšieho herpetického vírusu v *E.coli* a jeho purifikácia pomocou afinitnej chromatografie. In Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov, Eds M Galamboš, V Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 572 - 577. ISBN 978-80-223-3013-8.

HALÁSOVÁ, Z - PANČÍK, P - REŽUCHOVÁ, I - KÚDELOVÁ, M. Study on relation between genes sequence diversity and biological properties of Murine herpesvirus (MHV) strains. In Tomáškovy dny 2011 : Sborník abstraktu. - Brno, 2011, p. 26. ISBN 978-80-263-0004-5.

PANČÍK, P - BAUEROVÁ-HLINKOVÁ, V - HALÁSOVÁ, Z - REŽUCHOVÁ, I - KÚDELOVÁ, M. Protein M3 myšieho herpetického vírusu - klonovanie , expresia a purifikácia pomocou afinitnej chromatografie: M3 protein of Murine herpesvirus- cloning expression and purification by affinity chromatography. In Tomáškovy dny 2011 : Sborník abstraktu. - Brno, 2011, p. 50 - 51. ISBN 978-80-263-0004-5.

PANČÍK, P, KÚDELOVÁ, M, RAJČÁNI, J. The M3 protein of Murid herpesvirus 4 (MuHV-4): Gene cloning, protein expression and purification. In. Acta Microbiologica et Immunologica Hungarica, Abstracts of the 16th International Congress of the Hungarian Society for Microbiology, July 20–22, 2011, Budapest, Hungary, Volume 58, Supplement 2, pp. 123-124, DOI:10.1556/AMicr.58.2011. Suppl.2, p.116-240, ISSN 1588-2640 (online), ISSN 1217-8950 (print)

HALÁSOVÁ, Z - VALOVIČOVÁ, M. - PANČÍK, P - REŽUCHOVÁ, I - KÚDELOVÁ, Marcela. Sequence variability among the Murine gammaherpesvirus strains. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 67. ISBN 978-80-970692-5-4.

HALÁSOVÁ, Z - HAJNICKÁ, V - ŠTIBRÁNIOVÁ, I - KÚDELOVÁ, M - CHALUPKOVÁ, A. - BARTÍKOVÁ, P- SLOVÁK, M. Experimentálny prenos myšieho gamaherpsevírusu MHV-68 kliešťami Ixodes ricinus. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 54. ISBN 978-80-970692-5-4.

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

(Immunopathology of influenza virus infection with respect to the role of neutrophils 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: 3399 €

Dosiahnuté výsledky:

Charakterizovali a kvantifikovali sme subpopulácie neutrofilov mikroskopicky a cytometricky pomocou neutrofilo-špecifickej monoklonovej protilátky 1A8 z krvných vzoriek myší infikovaných vírusom chrípky a neinfikovaných.

16.) Presmerovaná imunoterapia: Nový terapeutický koncept pre liečbu vírusových a nádorových ochorení.

(Redirected immunotherapy: novel therapeutic concept for treatment of viral and cancer diseases)

Zodpovedný riešiteľ:	Juraj Petřík
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: 9541 €

Dosiahnuté výsledky:

Pripravili sme konštrukt chimérickej molekuly pozostávajúci z hemaglutinínu osýpok na C terminálnom konci a na N terminálnom konci z peptidu viažúceho sa na PG doménu proteínu CA IX. Z tohto konštrukt sme in vitro transkripčnými a translačnými procesmi pripravili proteín, ktorý sme ďalej testovali v interakcii so sérami. Tiež sme skúšali jeho väzbu na proteín CA IX, voči ktorému je namierený, metódami ELISA, WB a IP. Podarilo sa nám dokázať, že ľudia v populácii majú vo svojom sére protilátky voči potenciálnym nosným antigénom pre túto chimérickú molekulu v rôznych hladinách. Hladina protilátok po prekonaní infekcie napr. z detstva je signifikantnejšie vyššia než hladina protilátok po očkovaní.

Vedecké výstupy:

TRNKOVÁ, Katarína - PETRÍK, Juraj. Presmerovaná imunoterapia - nová antivírusová a protinádorová stratégia? In Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov [elektronický zdroj]. Editori Michal Galamboš, Vladimíra Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 766 - 771. ISBN 978-80-223-3013-8.

17.) Charakterizácia krížovo-reagujúcich protilátok voči antigénne variabilným vírusom chrípky typu A

(Characterization of cross-reactive antibodies against highly variable influenza A virus)

Zodpovedný riešiteľ:	Gustáv Russ
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0175/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5532 €

Dosiahnuté výsledky:

Hoci sa vývoj protichrípkových vakcín doteraz zameriaval prakticky výlučne na hemaglutinín, ukazuje sa, že aj ďalšie vírusové proteíny môžu mať protektívny potenciál. Preskúmali sme, či DNA vakcína, ktorá je založená na proteíne PB1 môže chrániť BALB/c myši pred chrípkovou infekciou. DNA vakcína obsahovala pTriEx4 plazmid exprimujúci PB1 proteín, ako pozitívna kontrola slúžil pTriEx4 plazmid exprimujúci hemaglutinín. Myši imunizované s týmito plazmidmi boli potom infikované dávkou 0,1 LD₅₀ vírusu chrípky A/Puerto Rico/8/34(H1N1). U týchto myší sme sledovali indukciu špecifických protilátok, ich prežívanie, zmeny v hmotnosti, prítomnosť infekčného vírusu v pľúcach, hladiny vybraných cytokínov a granzymu B. Výsledky potvrdili, že DNA vakcína exprimujúca PB1 poskytuje imunizovaným myšiam dobrú protektívnu imunitu. Nakoľko PB1 proteín vírusu chrípky je veľmi konzervatívny, takáto vakcína bude efektívna aj proti vírusom chrípky so značne odlišným hemaglutinínom a neuraminidázou.

Vedecké výstupy:

Ivan Košík, Ingrid Krejnosová, Margaréta Práznovská, Katarína Poláková², Gustáv Russ: A DNA vaccine expressing PB1 protein of influenza A virus protects mice against the virus infection. In: Archives of Virology, in press

18.) 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: 6082 €

Dosiahnuté výsledky:

Celkovo 235 a 215 "non-reundant" proteínov bolo jednoznačne identifikovaných u *Coxiella burnetii* z purifikovaných buniek vo fáze I a II. Novo identifikované proteíny nám poskytujú ďalšie poznatky o patogenéze Q horúčky, ako napr o biosyntéze a metabolizme.

Zdôraznili sme pokrok v oblasti *C. burnetii* proteomiky, so zameraním hlavne na príspevok týchto technológií na rozvoj a zlepšenie Q horúčkovej diagnostiky.

Poskytli sme prvý záznam v centrálnej Európe o identifikácii *R. africae* a *Wolbachia* sp. v blche, získanej zo sťahovavého vtáka po jeho návrate z Afriky. Táto molekulárne biologická štúdia rozširuje pohľad na geografický rozsah a spektrum článkonožcov, ako možných vektorov prenášajúcich infekčné ochorenia.

Monitorovali sme klinické vzorky od pacientov z rôznych vekových skupín z vybraných regiónov Slovenska. Potvrdili sme, že na Slovensku prevládajú infekcie *Rickettsia helvetica*, *Rickettsia slovaca* a *Rickettsia raoultii*. Dokázali sme aj prítomnosť *Coxiella burnetii*, *Borrelia* sp. a historicky po prvý krát na Slovensku aj výskyt *Bartonella elisabethae*.

Vedecké výstupy:

Škultéty L, Hajduch M, Flores-Ramirez G, Miernyk JA, Čiampor F, Toman R, Sekeyová Z.: Proteomic comparison of virulent phase I and avirulent phase II of *Coxiella burnetii*, the causative agent of Q fever. *J Proteomics*. 2011 Sep 6;74(10):1974-84. Epub 2011 May 15. IF: 5.074

Kowalczywska M, Sekeyová Z, Raoult D.: Proteomics paves the way for Q fever diagnostics. *Genome Med*. 2011 Jul 29;3(7):50. New electronic journal non CC, <http://www.ncbi.nlm.nih.gov/pubmed/21801463>

Zuzana Sekeyová, Oleg Mediannikov, Véronique Roux, Geetha Subramanian, Eva Špitalská, Jano Kristofík, Alžbeta Darolová, Didier Raoult: Identification of *Rickettsia africae* and *Eolbachia* sp. in *Ceratophyllus garei* fleas from a passerine birds migrated from Africa. *Vector Borne and Zoonotic Diseases*. In press (June 17th 2011) IF: 2.733

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 Immunology & Medical Microbiology*. In press (10-Nov-2011) IF: 2,494

Zuzana Sekeyová, Geetha Santhi, Oleg Mediannikov, Marco Quevedo Diaz, Hana Blaškovičová, Didier Raoult: Evaluation of clinical specimens for *Rickettsia*, *Bartonella*, *Borrelia*, *Coxiella*, *Anaplasma*, *Franciscella* and *Diplorickettsia* positivity using serological and molecular biological methods. 03. 06. 2011 - 07. 06. 2011 "The 6th International Meeting on Rickettsiae and Rickettsial Diseases", Heraklion, Crete, Greece.

Geetha Subramanian, Oleg Mediannikov, Zuzana Sekeyová, Didier Raoult: Multiple tick-associated bacteria in *Ixodes ricinus* from Slovakia. 03. 06. 2011 - 07. 06. 2011 "The 6th International Meeting on Rickettsiae and Rickettsial Diseases", Heraklion, Crete, Greece.

Z. Sekeyová, O. Mediannikov, M.L. Birg, D. Raoult: Nová obligátne vnútrobuinková gamma proteobaktéria *Diplorickettsia massiliensis*, gen. nov., sp. nov. 28. 04. 2011 - 29. 04. 2011 "Labudove dni" Vedecká konferencia, Virologický ústav SAV, Bratislava, Zborník abstraktov ISBN 978-80-970692-5-4, Eds.: Špitalská E., Kazimírová M., Kocianová E.

19.) 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 Škultety
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: 11283 €

Dosiahnuté výsledky:

V prvom roku skúmania prebiehala systematická identifikácia použitím plne integrovanej hmotnostno-informačnej platformy [1]. Porovnaním celobunecných lyzátov *C. burnetii* vo fáze I a fázy II sme odhalili 235 proteínov fázy I a 215 z fázy II. Medzi nimi sme našli 44 proteínov, ktoré pravdepodobne hrajú významnú úlohu v patogenéze a prežívaní *C. burnetii* za drsných životných podmienok a 9 proteínov súvisiacich so syntézou lipopolysacharidov [2].

Keďže tieto proteíny súvisia so syntézou bakteriálneho povrchu, ďalší náš výskum sme sústredili na povrchovo lokalizované proteíny. Vyvinuli sme metódu zameranú na aplikácii najmodernejších proteomických techník založených na osekanií povrchu bunky s kovalentne naviazaným proteolytickým enzýmom na magnetických mikročasticiach, po ktorej nasleduje identifikácia proteínov hmotnostnou spektrometriou. Táto metóda nám v budúcnosti umožní minimalizovať počet extrakčných a purifikačných krokov a skrátiť tak čas potrebný na identifikáciu povrchovo-asociovaných proteínov.

Vedecké výstupy:

Marak, J , Stanova, A , Gajdostinova, S, Skultety, L , Kaniansky, D: Some possibilities of analysis of complex samples by mass spectrometry with sample pretreatment by off-line coupled preparative capillary isotachopheresis, Electrophoresis 32, 2011, 1273-1281, DOI: 10.1002/elps.201000629

Skultety L, Hajduch M, Flores-Ramirez G, Miernyk JA, Ciampor F, Toman R, Sekeyova Z. Proteomic comparison of virulent phase I and avirulent phase II of *Coxiella burnetii*, the causative agent of Q fever. J Proteom. 74(10), 2011,1974-84. IF: 5.074

20.) 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: 5331 €

Dosiahnuté výsledky:

Po prvýkrát sme zaznamenali vysokú prevalenciu (44.0% lár v a 24.5% ným f) rickettsialnej infekcie subadultných štádií *I. arboricola* zozbieraných z vtákov, štúdia predostrela význam *I. arboricola*, *P. major* a *P. palustris* v cirkulácii rickettsií.

Sledovanie séroprevalencie pomocou IFA použitím rôznych antigénov *Bartonella*, *Borrelia*, *Rickettsia*, *Coxiella*, *Anaplasma*, *Franciscella tularensis* a *Diplorickettsia massiliensis* u vidieckych a mestských obyvateľov SR ukázalo, že 32% bolo pozitívnych na rickettsie skupiny purpurovej horúčky a len 10% IFA pozitívnych prípadov bolo potvrdených aj pomocou PCR.

Vedecké výstupy:

Spitalska E, Literak I, Kocianová E, Taragelova V. The Importance of *Ixodes arboricola* in Transmission of *Rickettsia* spp., *Anaplasma phagocytophilum*, and *Borrelia burgdorferi* Sensu Lato in the Czech Republic, Central Europe. *Vector-Borne and Zoonotic Diseases*. 2011, 11: 1235-1241.

Sekeyova Z, Subramanian G, Mediannikov O, Quevedo Diaz M, Nyitray A, Blaškovičova H, Raoult D. Evaluation of clinical specimens for *Rickettsia*, *Bartonella*, *Borrelia*, *Coxiella*, *Anaplasma*, *Franciscella* and *Diplorickettsia* positivity using serological and molecular biology methods. *FEMS Immunology and Medical Microbiology* 2011, accepted.

21.) 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: 9670 €

Dosiahnuté výsledky:

Jedným z cieľov projektu je sledovať imunogénny potenciál AvPDI, prvej kompletne osekvenovanej proteín disulfid izomerázy u kliešťov. Prvý rok sme sa zamerali na prípravu rekombinantného proteínu AvPDI zo slinných žliaz kliešťa *Amblyomma variegatum* (AV). Gén pre jednu jeho funkčnú doménu (AVD) sme pomocou gén špecifických primerov amplifikovali z cDNA AV, vložili do expresného vektoru pGEX4T1. V tomto roku sme ním natransformovali *E. coli* a po indukcií s IPTG sme produkovaný rekombinantný fúzny proteín (AVD-GST) purifikovali pomocou afinitnej chromatografie. Takto získaný proteín sme použili na imunizáciu Balb/c myši, pričom sa nám potvrdil silný imunogénny potenciál, polyklonálne sérum vykazovalo aktivitu až po riedenie 1: 100000 už po 2 imunizáciách. Momentálne máme naimunizované myši ICR, na ktoré sa budú po navodení protilátkovej odpovede pridávať kliešte, a budeme sledovať vplyv imunizácie na prisatie, cicanie a následnú metamorfózu, a v ďalšom kroku tiež vplyv imunizácie na prenos patogénnu počas „cofeedingu“ infekčných (TBEV) a neinfekčných kliešťov na hostiteľa a medzi kliešťami. Rovnaký experiment je plánovaný aj pre Balb/c myši a kliešte infikované *Borrelia afzeli*.

Je známe, že kliešte manipulujú hostiteľskými imunitnými odpoveďami pomocou molekúl sekretovaných ich slinnými žľazami. Tieto látky viažu cytokíny a chemokíny. Demonštrovali sme, že substancie v slinách kliešťov viažu aj rastové faktory (GF): transforming growth factor beta (TGF- β 1), platelet-derived growth factor (PDGF), fibroblast growth factor (FGF-2) a hepatocyte growth factor (HGF), v závislosti od druhu kliešťa. SGE derivované z *Amblyomma variegatum*

reagujú so všetkými nami testovanými GF, Dermacentor reticulatus a Rhipicephalus appendiculatus viažu TGF β 1, FGF2 a HGF a Ixodes ricinus a I. scapularis len PDGF. SGE kliešťov viažucich PDGF(A. variegatum a I. ricinus) tiež inhibujú bunkovú proliferáciu in vitro, a navodzujú zmeny v morfológii rôznych typov buniek, čo koreluje s narušením aktívneho cytoskeletu.
* Valeria Hajnická, Iveta Vančová-Štibrániová, Mirko Slovák, Pavlína Kocáková, Patricia A. Nuttall(2011): Ixodid tick salivary gland products target host wound healing growth factors, International Journal for Parasitology 41 (2011) 213–223

Schopnosť viazať GF sme dokázali aj u ďalšieho kliešťa, Hyalomma anatolicum excavatum. Schopnosť viazať GF sme identifikovali u nymfálneho aj adultného štádia. Detegovali sme vplyv na proliferáciu a morfológiu dvoch bunkových línií, ľudske keratinocyty HaCaT a myšie fibroblasty NIH3T3. Získané výsledky podporujú našu teóriu o vplyve dĺžky hypostómu kliešťa na spektrum bioaktívnych molekúl v jeho slinách, a budú publikované v pripravovanom článku: Slovák M., Štibrániová I., Hajnická V., Nuttall P.A.: „Anti-growth factor activities of ixodid ticks compared with size of mouthparts“ (in preparation)

Vedecké výstupy:

SLOVÁK, Mirko - ŠTIBRÁNIOVÁ, Iveta - HAJNICKÁ, Valéria. Growth factor binding activity in salivary gland extracts of Hyalomma anatolicum excavatum ticks. In 7th Ticks and Tick-borne pathogens International Conference-Proceedings of abstracts. - Zaragoza, Spain, 2011, p. 116.

HALÁSOVÁ, Zuzana - HAJNICKÁ, Valéria - ŠTIBRÁNIOVÁ, Iveta - KÚDELOVÁ, Marcela - CHALUPKOVÁ, A. - BARTÍKOVÁ, Pavlína - SLOVÁK, Mirko. Experimentálny prenos myšieho gamaherpesvírusu MHV-68 kliešťami Ixodes ricinus. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava: Virologický ústav SAV, 2011, s. 54. ISBN 978-80-970692-5-4.

ŠTIBRÁNIOVÁ, Iveta - SLOVÁK, Mirko - HAJNICKÁ, Valéria. Anti-cytokínové aktivity slín kliešťov v Hyalomma anatolicum excavatum. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 55. ISBN 978-80-970692-5-4.

22.) Molekulová a funkčná analýza genómu slovenských izolátov vírusu šarky slivky (*Molecular and functional genome analysis of Slovak plum pox virus isolates*)

Zodpovedný riešiteľ:	Zdeno Šubr
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0027/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7247 €

Dosiahnuté výsledky:

Skríning vzoriek získaných z terénneho zberu na východe Slovenska prispel k uceleniu obrazu o rozšírení jednotlivých kmeňov PPV na našom území. Zhruba sa dá povedať, že pozdĺž karpatského oblúka sú zreteľné tri zóny: západná/severná, s prevažným výskytom PPV-Rec, stredná s prevažným výskytom PPV-D a južná, kde prevažuje PPV-M na broskyniach a PPV-Rec na slivkách. Približne 40 ďalších čiastkových sekvencií PPV je pripravených na uloženie v databáze GenBank. V prevažnej väčšine prípadov izoláty jednotlivých kmeňov vykazovali typickú hostiteľskú preferenciu:

PPV-M / broskyne, PPV-D / slivky a marhule, PPV-Rec / slivky. Celkovo iba deväť izolátov vybočvalo z tohto pravidla (päťkrát PPV-M / slivka, trikrát PPV-D / broskyňa a raz PPV-Rec / marhuľa).

Naše experimenty s kmeňovo zmiešanými infekciami drevín ukazujú, že v slivkách sa prevažne presadí PPV-D, v marhuliach a broskyniach PPV-M. Výsledný obraz však závisí od rôznych faktorov, predovšetkým od kvality zdroja infekcie. V jednom prípade sa v strome slivky po niekoľkoročnej koexistencii s PPV-Rec presadil izolát kmeňa PPV-M VAR-2. Detailná štúdia kvázidruhovej variability VAR-2 v rámci tohto jediného stromu ukázala výraznú stabilitu vedúcej sekvencie, ktorá aj sedem rokov po infekcii bola prakticky totožná s pôvodným zdrojom.

Pripravenú sadu medzikmeňových chimér PPV sme použili na infekciu rôznych bylinných hostiteľov PPV (*Nicotiana benthamiana*, *N. occidentalis*, *N. rustica*, *N. glutinosa*, *N. clevelandii*, *Nicandra physaloides*, *Pisum sativum*, *Arabidopsis thaliana*). Na množenie a udržiavanie všetkých foriem bol najvhodnejší druh *N. benthamiana*, pre účely fenotypového mapovania sa ukázali vhodné *N. occidentalis* a *Nicandra physaloides*, na ktorých sme pozorovali v závislosti na kmeni PPV výrazne odlišné príznaky. Analýza biologických experimentov s medzikmeňovými chimérami PPV ukázala, že za manifestáciu rôznych typov príznakov na týchto rastlinách je zodpovedná oblasť genómu P1/HC-pro. Cieľovou mutagenézou dvoch oblastí génu P1 vytipovaných na základe in silico porovnania sekvencií sme pripravili formy vírusu, ktorých biologické vlastnosti nám umožnia definitívne potvrdiť alebo vylúčiť vplyv týchto úsekov na tvorbu symptómov.

Zdlhavými experimentami sa podarilo optimalizovať metódu množenia myrobalánu a slivky v in vitro podmienkach. Úroveň produkcie bola stabilizovaná na cca 30 zakorenených rastlín mesačne, čo plne postačuje pre potreby našich experimentov. Dosiaľ prebiehajú pokusy o získanie stabilných in vitro línií broskyne a marhule. Prenos vírusu z bylín na dreviny sa ukázal byť kritickým miestom výskumu. Pre účely infikovania drevinných hostiteľov chimérickými konštruktami PPV sme aplikovali rôzne metódy a ich kombinácie: mechanickú inokuláciu v prítomnosti práškového abrazívneho materiálu, biolistickú metódu, poškodenie povrchovej vrstvy listov brúsnyim papierom alebo enzýmovým natrávením, infiltráciu koreňového systému alebo listov injekťážou, prenos voškami. Dosiaľ žiadny z testovaných postupov nevedol k uspokojuvým výsledkom. Pravdepodobne bude potrebné pre tieto účely zaviesť technológiu agroinfekcie. Preto sme zatiaľ mohli porovnať konkurencieschopnosť pripravených chimér iba v systéme s bylinným hostiteľom. Ukázalo sa, že v *N. benthamiana* boli všetky testované chiméry prinajmenšom rovnako životaschopné ako materské izoláty vírusu – po zmiešanej infekcii dlhodobo pretrvávali v rastlinách, v niektorých prípadoch dokonca materskú formu vytlačili.

Vedecké výstupy:

Nagyová, A., Predajňa, L., Šubr, Z.W., Glasa, M. (2011): Preparation of an infectious cDNA clone of the Plum pox virus strain PPV-Rec. *Acta Horticulturae* 899: 103-108

Glasa M., Malinowski T., Predajňa L., Pupola N., Dekena D., Michalczuk L., Candresse T. (2011): Sequence Variability, Recombination Analysis, and Specific Detection of the W Strain of Plum pox virus. *Phytopathology* 101: 980-985

Predajňa L., Nagyová A., Šubr Z., Glasa M. (2011): Evaluation of genetic diversity of Plum pox virus in a single plum tree. II Symposium on Plum of Serbia. 24.-26.8.2011, Čačak, Serbia. Book of Abstracts (p 94-95)

Nagyová A., Gajdošová A., Glasa M., Šubr Z. (2011): In vitro micropropagation of *Prunus* spp. for biological experiments with Plum pox virus. II Symposium on Plum of Serbia. 24.-26.8.2011, Čačak, Serbia. Book of Abstracts (p 96-97)

23.) 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: 10132 €

Dosiahnuté výsledky:

Ukázali sme, že expresia proteínu CA IX urýchľuje bunkovú migráciu a že táto schopnosť súvisí s enzymatickou aktivitou a s fosforyláciou jeho cytoplazmatickej časti CA IX. Dokázali sme, že proteín CA IX je relokovaný do funkčne významnej oblasti migrujúcich buniek tzv. lamelipódií, kde priamo fyzicky interaguje s bikarbonátovými transportérmi NBCe1 a AE2. Naše výsledky naznačujú, že CA IX prispieva k bunkovej migrácii práve cez zrýchlenie iónového transportu v metabolóne a cez pH reguláciu. Uvedené výsledky boli publikované v dvoch článkoch a prezentované na sympóziu ISPDC (International Society for Proton Dynamics and Cancer) v Nice v novembri 2011.

Vedecké výstupy:

ŠVASTOVÁ, Eliška - WITARSKI, Wojciech - CSÁDEROVÁ, Lucia - KOŠÍK, Ivan – ŠKVARKOVÁ, Lucia - HULÍKOVÁ, Alžbeta - ZAŤOVIČOVÁ, Miriam - BARÁTHOVÁ, Monika - KOPÁČEK, Juraj - PASTOREK, Jaromir - PASTOREKOVÁ, Silvia . Carbonic anhydrase IX interacts with bicarbonate transporters in lamellipodia and increases cell migration via its catalytic domain. In Journal of Biological Chemistry, 2011, Dec 14 Epub ahead of print

DITTE, Peter - DEQUIEDT, F. - ŠVASTOVÁ, Eliška - HULÍKOVÁ, Alžbeta - OHRAĎANOVÁ - REPIČ, Anna - ZAŤOVIČOVÁ, Miriam - CSÁDEROVÁ, Lucia - KOPÁČEK, Juraj - SUPURAN, C.T. - PASTOREKOVÁ, Silvia - PASTOREK, Jaromír. Phosphorylation of carbonic anhydrase IX control its ability to mediate extracellular acidification in hypoxic tumors. In Cancer Research, 2011, vol. 71, no. 24, p. 7558 - 7567. (8.234 - IF2010). (2011 - Current Contents). ISSN 0008-5472. Typ: ADCA

PASTOREKOVÁ, Silvia - ŠVASTOVÁ, Eliška - DITTE, Peter - ZAŤOVIČOVÁ, Miriam - HULÍKOVÁ, Alžbeta - CSÁDEROVÁ, Lucia - KOPÁČEK, Juraj - PASTOREK, Jaromír. Upstream regulation and downstream effects of carbonic anhydrase IX in the context of hypoxic tumor phenotype. In 2nd Symposium of the International Society for Proton Dynamics in Cancer (ISPDC) - Scientific program and abstracts. - Nice : ISPD, 2011, p. 22. Typ: AFG

24.) Význam karbonickej anhydrázy IX ako neinvazívneho indikátora prognózy a molekulárneho terča pre jasnobunkový karcinóm obličiek

(Significance of the carbonic anhydrase IX as a non-invasive prognostic indicator and a molecular target in renal cell carcinoma)

Zodpovedný riešiteľ:	Martina Takáčová
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0216/09
Organizácia je koordinátorom projektu:	áno

Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9901 €

Dosiahnuté výsledky:

V rámci predklinickej analýzy CA IX ako terapeutického terča sme realizovali testovanie vybraných bunkových línií pochádzajúcich z JKO. Následne bola najvhodnejšia bunková línia ACHN opracovaná s kinázovým inhibítorom (sunitinib) a analyzovaná z pohľadu expresie proteínov CA IX a HIF-1?. V klinickej časti projektu sme najskôr pokračovali v zbere a analýze vzoriek pacientov s jasnobunkovým karcinómom obličiek (JKO). Vo vzorkách krvi sme okrem zisťovania prítomnosti cirkulujúcich nádorových buniek (RT-PCR) sledovali aj hladinu solubilnej formy CA IX (ELISA). Okrem toho sme analyzovali vzorky tkanív prostredníctvom Western blottingu a imunohistochemie. V druhej polovici roku sme pristúpili k vyhodnoteniu výsledkov testovania pacientov v kontexte s klinickými parametrami. Nakoľko nie všetky vzorky z celkového počtu 110 pacientov s JKO boli dostupné, na štatistické vyhodnotenie a sledovanie významu CA IX ako markera pre JKO sme použili len výsledky získané všetkými detekčnými metódami (RT-PCR, ELISA, Western blotting, imunohistochemia), t.j. od 74 pacientov. Získané výsledky sme zhrnuli v pripravovanej publikácii s názvom Carbonic anhydrase IX is a clinically significant tissue and serum biomarker associated with renal cell carcinoma.

Vedecké výstupy:

Takáčová M., Bartošová M., Zaťovičová M., Škvarková L., Pastorek J., Pastoreková S., Breza J. (2011) CA IX predstavuje klinicky významný biomarker asociovaný s nádormi obličiek. *Klinická urológia*; 7(1):28-32

Vidličková I., Zaťovičová M., Takáčová M., Bartošová M., Škvarková L., Pastoreková S., Breza J.: Detekcia a kvantifikácia karbonickej anhydrázy IX pri karcinómoch obličiek. Študentská vedecká konferencia PRIF UK 2011, zborník recenzovaných príspevkov. Editori Michal Galamboš, Vladimíra Džugasová: Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 772-777, ISBN 978-80-223-3013-8

25.) Lipopolysacharidy z *Coxiella burnetii* a *Rickettsia prowazekii*. Chemické zloženie, štruktúra a funkcia v patogenéze a imunite Q horúčky a škvrnitého týfusu

*(Lipopolysaccharides from *Coxiella burnetii* and *Rickettsia prowazekii*. Chemical composition, structure and function in pathogenesis and immunity of Q fever and epidemic typhus)*

Zodpovedný riešiteľ:	Rudolf Toman
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0127/09
Organizácia je koordinátorom projektu:	Áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	5 - Nemecko: 2, Francúzsko: 3
Čerpané financie:	VEGA: 9754 €

Dosiahnuté výsledky:

Chemická štruktúra lipidu A z *C. burnetii* v avirulentnej fáze II sa nezmenila napriek veľkým deléciám v génoch zodpovedných za biosyntézu LPS. Virenóza a dihydrohydroxystreptóza v O-polysacharidovom reťazci LPS I hrajú významnú úlohu v patogenéze a imunite perzistentnej/chronickej Q horúčky. Pripravila sa monoklónová protilátka vysoko špecifická voči

virenóze, ktorá je unikátnym biomarkerom *C. burnetii*. Umožní to vývoj nového diagnostického prípravku pre rýchlu a špecifickú detekciu tejto baktérie/Q horúčky. Sledovala sa séroprevencia Q horúčky u triedičov a práčov vlny v Belgicku. Zistili sa atypické protilátkové odpovede evokujúce chronickú, alebo relapsujúcu Q horúčku bez zjavných klinických príznakov. Single-nucleotide-polymorphism genotypizácia *C. burnetii* pri monitoringu prebiehajúcej Q horúčky v Holandsku ukázala, že epidémiu spôsobilo najmenej 5 odlišných genotypov. Chemická štruktúra lipidu A z *Rickettsia typhi* je podobná lipidom A enterobaktérií s vysokým endotoxínovým účinkom.

Vedecký výstup:

HUIJSMANS, C.J.J.- SCHELLEKENS, J.J.A.- WEVER, P.C.- TOMAN, R.- SAVELKOUL, P.H.M.- JANSE, I.- HERMANS, M.H.A. Single-nucleotide-polymorphism genotyping of *Coxiella burnetii* during a Q fever outbreak in the Netherlands. In *Appl. Environ. Microbiol.*, Vol. 77 (2011), p. 2051-2057, podiel 0,3, (3.778-IF2011).

WATTIAU, P.- BOLDISOVA, E. - TOMAN, R. VAN ESBROECK, M. - QUOILIN, S.- HAMMADI, S.- TISSOT-DUPONT, H.- RAOULT, D.- HENKINBRANT, J.M.- VAN HESSCHE, M.- FRETIN, D.: Q fever in woollsorters, Belgium. In *Emerg. Infect. Dis.*, Vol. 17 (2011), p. 2368-2369, podiel 0,4, (6.859-IF2011).

FODOROVA, M. - VADOVIC, P. – TOMAN, R. Structural features of lipid A of *Rickettsia typhi*, the etiological agent of endemic typhus. In *Acta Virol.*, Vol. 55 (2011), p. 31-44, podiel 1,0, (0.547-IF2011).

BARTOVA, K.- VADOVIC, P.- HAMADOVA, M.- TOMAN, R. Preliminary structural studies on a lipopolysaccharide of *Rickettsia conorii*. In *6th International Meeting on Rickettsiae and Rickettsial Diseases*, June 5-7, 2011, Heraklion, Crete, Greece, Book of Abstracts, p. 95.

VADOVIC, P. - FODOROVA, M. -TOMAN, R. Structural studies on endotoxin of *Rickettsia typhi* - the etiological agent of endemic typhus. In *EUROCARB 16, 16th European Carbohydrate Symposium*, July 3-7, 2011, Sorrento-Naples, Italy, Book of Abstracts, p. 341.

TOMAN, R.- VADOVIC, P.- HAMADOVA, M.- BARTOVA, K.- BETINOVA, E.- MEGE J.L. Investigations on the structure-function relationships of the lipopolysaccharides from *Coxiella burnetii*, the etiological agent of Q fever. In *EUROCARB 16, 16th European Carbohydrate Symposium*, July 3-7, 2011, Sorrento-Naples, Italy, Book of Abstracts, p. 342.

BOLDISOVA, E.- FÜLEOVA, A.- WATTIAU, P.- TOMAN, R. Q fever among wool sorters in Belgium. In *BioMicroWorld 2011, IV International Conference on Environmental, Industrial and Applied Microbiology*, September 14-16, 2011, Torremolinos, Malaga, Spain, Book of Abstracts, p. 449.

26.) 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: 9754 €

Dosiahnuté výsledky:

Dokázali sme, že ak sú bunky, ktoré sú perzistentne infikované vírusom LCM vystavené chronickej hypoxii, dochádza k aktivácii expresie všetkých vírusových génov a k zvýšenej tvorbe extracelulárnych infekčných viriónov cez mechanizmus, ktorý je závislý od transkripčného faktora HIF. Naše zistenia naznačujú, že hypoxia moduluje LCMV replikáciu a celkový priebeh infekcie a preto môže zohrávať dôležitú úlohu v patológii chorôb spojených s hypoxiou. S cieľom identifikovať bunkové proteíny, ktoré sa zúčastňujú na interakciách s vírusovými proteínmi alebo sú v dôsledku infekcie LCMV deregulované, sme si pripravili nové bunkové línie infikované LCMV MX a taktiež sme optimalizovali prípravu vzoriek na proteomické analýzy, ako aj podmienky metód 2D-ELFO a koimunoprecipitácie.

Vedecké výstupy:

TOMÁŠKOVÁ, Jana - OVEČKOVÁ, Ingrid - LABUDOVÁ, Martina - LUKÁČIKOVÁ, Ľubomíra - LAPOŠOVÁ, Katarína - KOPÁČEK, Juraj - PASTOREKOVÁ, Silvia - PASTOREK, Jaromír. Hypoxia Induces the Gene Expression and Extracellular Transmission of Persistent Lymphocytic Choriomeningitis Virus. In Journal of Virology, 2011, vol. 85, no. 24, p. 13069 - 13076. (5.189 - IF2010). (2011 - Current Contents). ISSN 0022-538X.

TOMÁŠKOVÁ, Jana - OVEČKOVÁ, Ingrid - LABUDOVÁ, Martina - LUKÁČIKOVÁ, Ľubomíra - LAPOŠOVÁ, Katarína - KOPÁČEK, Juraj - PASTOREK, Jaromír - PASTOREKOVÁ, Silvia. Virus response to hypoxia: LCMV arenavirus as a paradigm. In OXYGEN 2011 : Hypoxia sensing, signaling and adaptation. - Davos : COST Action TD0901, 2011, p. 29.

LAPOŠOVÁ, Katarína - LUKÁČIKOVÁ, Ľubomíra - OVEČKOVÁ, Ingrid - PASTOREKOVÁ, Silvia - TOMÁŠKOVÁ, Jana. Prevalencia vírusu LCM u pacientov s nádorom obličiek. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 65. ISBN 978-80-970692-5-4.

LUKÁČIKOVÁ, Ľubomíra - OVEČKOVÁ, Ingrid - DITTE, Peter - LAPOŠOVÁ, Katarína - PASTOREK, Jaromír - PASTOREKOVÁ, Silvia - TOMÁŠKOVÁ, Jana. Úloha interferónu lambda LCM pri infekcii LCMV. In Slovenská parazitologická spoločnosť pri SAV. II. Labudove dni : Zborník abstraktov z vedeckej konferencie Labudove dni 2011. - Bratislava : Virologický ústav SAV, 2011, s. 66. ISBN 978-80-970692-5-4.

27.) Konzervatívne epitopy HA2 gp hemagglutínínu vírusu chrípky A ako induktory heterosubtypovej imunity voči chrípkovej infekcii

(Conserved epitopes of HA2 glycopolypeptide of influenza A virus haemagglutinin as inductors of heterosubtypic immunity against influenza infection)

Zodpovedný riešiteľ:	Eva Varečková
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0154/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9531 €

Dosiahnuté výsledky:

Skonstruovali sme imunogén obsahujúci vybrané T a B epitopy HA2 glykoproteínu vírusu chrípky A, zdieľané rôznymi HA subtypmi vírusu chrípky. Použili sme nový, u chrípky doposiaľ nepopísaný spôsob prezentácie antigénu sprostredkovaný detoxifikovaným adenylát cyklázovým toxínom produkovaným baktériou Bordetella pertussis. Ukázali sme, že tento imunogén stimuluje T-bunkovú odpoveď ako aj HA2-špecifické protilátky, ktoré majú hetero-protetivný účinok na letálnu infekciu myši. Toto je prvá správa o experimentálnej inaktivovanej HA2 vakcíne s potenciálom stimulovať humorálnu aj bunkovú imunitu voči chrípkovej 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*, 2011, vol., no., p. (3.812 - IF2010). (2011 - Current Contents). ISSN 1750-2640, accepted for publication, 8th December 2011.

KIRÁLY, J. - VAREČKOVÁ, Eva - MUCHA, Vojtech - KOSTOLANSKÝ, František. Evaluation of anti-influenza efficiency of polyclonal IgG antibodies to the ectodomain of M2 protein of influenza A virus by passive immunization of mice. In *Acta Virologica : international journal*, 2011, vol. 55, no. 3, p. 261 -266. (0.547 - IF2010). (2011 - 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*, 2011, vol. 55, no. 1, p. 61 -68. (0.547 - IF2010). (2011 - Current Contents). ISSN 0001-723X.

28.) Biologické vlastnosti a imunoterapeutický potenciál monoklonových protilátok špecifických pre nádorovo-asociovaný proteín CA IX

(Biological properties and immunotherapeutic potential of the monoclonal antibodies specific for the tumor-associated protein CA IX)

Zodpovedný riešiteľ:	Miriám Zaťovičová
Trvanie projektu:	1.1.2009 / 31.12.2011
Evidenčné číslo projektu:	2/0184/09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9901 €

Dosiahnuté výsledky:

Chimerická monoklonová protilátka G250 je v súčasnosti v 3. fáze klinických testov imunoterapie obličkových nádorov. Viazá sa na karbonickú anhydrázu IX, ktorá je exprimovaná vo väčšine obličkových nádorov, ale tiež v iných hypoxických nádoroch odlišného pôvodu. Naším cieľom bolo charakterizovať väzbové a internalizačné vlastnosti protilátky a jej terapeutický efekt na modeli kolorektálnych nádorových buniek. Zistili sme, že G250 deteguje konformačný epitop CA domény CA IX, ktorý sa prekrýva s epitopmi protilátok VII/20, V/10 a V/12 získanými na VÚ SAV, rozpoznáva solubilnú formu ECD CA IX, ale neviaže sa na splicing variant a nevykazuje krížovú reaktivitu s izoformami CA I, II a XII. Ukázali sme, že protilátka internalizuje prostredníctvom „clathrin-coated“ vezikúl, nepodlieha degradácii v lyzozómoch, ale recykluje prostredníctvom perinukleárných kompartmentov. Recyklovaná protilátka si zachováva intaktnú Fc oblasť IgG

zodpovednú za ADCC imunitnú odpoveď, čo môže viesť k akcelerácii terapeutického účinku protilátky.

Dokázali sme, že podávanie protilátky G250 významne redukuje veľkosť xenograftov kolorektálnych karcinómových buniek HT-29. Naše výsledky svedčia o potenciálnom využití protilátky G250 pri imunoterapii nádorov nie len obličkového pôvodu.

Vedecké výstupy:

Publikácia je v štádiu prípravy.

29.) 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: 6047 €

Dosiahnuté výsledky:

Pre štúdium vplyvu hypoxie na replikáciu herpesvírusov a expresiu génov hostiteľskej bunky boli revitalizované bunkové línie transformované lymfotrópnymi herpesvírusmi Epstein-Barr - EBV (EB95-8, Raji), Myším herpesvírusom 4 – MuHV-4 (NB78) a vírusom Marekovej choroby – MDV (CU41).

Metódou RT-PCR nebol zistený významný efekt podmienok hypoxie na expresiu génov hostiteľskej bunky HIF-1 a CAIX v bunkách transformovaných EBV – Raji alebo EB95-8.

Vedecké výstupy:

Zelnik, V., Kung, H.-J., Kamil, J. (2011) Mardivirus. In The Springer Index of Viruses, 2nd Edition, pp.649-661, Eds. Tidona, Ch., Darai, G. Springer Science + Business Media, LLC 2011. DOI 10.1007/978-0-387-95919-1. ISBN 978-0-387-95918-4.

Rahaus, M., Müller, W., Zelnik, V. (2011) Detection and quantification of HVT. 21st Annual Meeting of Society for Virology, Freiburg, Germany.

Programy: APVV

30.) Identifikácia molekulových dráh riedených prostredníctvom 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: 44815 €

Dosiahnuté výsledky:

V úvodnej etape projektu sme sa sústredili na prípravu a testovanie vhodných bunkových modelov, ktoré budú následne určené pre štúdium dráh ovplyvnených CA IX.

31.) Štruktúra ohnisk 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:	
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	APVV: 6650 €

Dosiahnuté výsledky:

V tomto rozsiahlom projekte, zameranom na hlodavcami prenášané patogény v mestskom type krajiny, je našou čiastkovou úlohou identifikácia hantavírusov a ich hostiteľov, sledovanie zmien v ich výskyte a rozšírení a sledovanie ich molekulárnej evolúcie a biodiversity. Vzhľadom k zahájeniu projektu len v máji tohto roku boli doterajšie aktivity zamerané najmä na zber biologického materiálu prostredníctvom partnerských pracovísk a zahájenie základného testovania doteraz získaných vzoriek molekulárno biologickými metódami.

32.) 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 / 31.12.2014
Evidenčné číslo projektu:	APVV-0042-10
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 30129 €

Dosiahnuté výsledky:

V júni 2011 sme vykonali terénny zber vzoriek v regióne východného Slovenska. Získali sme 46 vzoriek prevažne zo sliviek, ktoré sme analyzovali na prítomnosť PPV testom ELISA, imunoblotom a RT-PCR. Dvadsaťpäť z nich patrilo do kmeňa PPV-D, 18 do PPV-Rec, tri vzorky boli negatívne. Pri 26 vzorkách sme sekvenovali genómovú oblasť kódujúcu (C-ter)NIB/(N-ter)CP. Jedna zo vzoriek bola netypická vzhľadom na hostiteľa (PPV-D na broskyni) a bola vybraná pre kompletnú sekvenáciu genómu. Okrem toho sme začali kompletne sekvenovať niekoľko subizolátov izolátu VAR-2 (PPV-M), ktoré boli dlhodobo experimentálne udržiavané v rôznych drevinných hostiteľoch (slivka, marhuľa, broskyňa).

Skríning získaných vzoriek prispel k uceleniu obrazu o rozšírení jednotlivých kmeňov PPV na našom území. Zhruba sa dá povedať, že pozdĺž karpatského oblúka sú zreteľné tri zóny: západná/severná, s prevažným výskytom PPV-Rec, stredná s prevažným výskytom PPV-D a južná, kde prevažuje PPV-M na broskyniach a PPV-Rec na slivkách.

Indície získané porovnaním aminokyselinových sekvencií izolátov PPV nasvedčujú, že determinanty patogenity, a teda pravdepodobne aj hostiteľskej preferencie, môžu byť lokalizované v oblasti génov P1 a HC-pro. Pripravili sme medzikmeňové chiméry PPV (vo forme infekčných cDNA klonov) rekombinované v tejto genómovej oblasti a testovali ich biologické vlastnosti po infekcii rôznych bylinných hostiteľov. Pre účely fenotypového mapovania sa ukázali vhodné *Nicotiana occidentalis* a *Nicandra physaloides*, na ktorých sme pozorovali v závislosti na kmeni PPV výrazne odlišné príznaky. Biologické experimenty s chimérami potvrdili vplyv oblasti P1/HC-pro na manifestáciu symptómov v týchto dvoch bylinných hostiteľoch. Na základe in silico porovnania sekvencií sme vytipovali dva úseky v géne P1, potenciálne zodpovedné za tento efekt. Ich cieľovou mutagenézou sme pripravili formy vírusu, ktorých biologické vlastnosti nám umožnia definitívne potvrdiť alebo vylúčiť vplyv týchto úsekov na tvorbu symptómov.

Biologické testy na iných druhoch rastlín nedávali uspokojivé výsledky, či už kvôli celkovo slabej intenzite príznakov (*Nicotiana rustica*, *N. clevelandii*, *N. glutinosa*), alebo preto, že rozdiely v symptomatológii boli skôr kvantitatívneho charakteru a nedali sa klasifikovať do jasne vyhranených skupín (*N. benthamiana*, *Pisum sativum*).

Podarilo sa zaviesť a optimalizovať metódu množenia myrobalánu a slivky in vitro. Úroveň produkcie bola nastavená na cca 30 zakorenených rastlín mesačne. Zatiaľ sa nepodarilo získať stabilné in vitro línie broskyne a marhule, pokračujeme v skúšaní rôznych typov médií a rôznych zdrojov východiskového biologického materiálu.

33.) Predikcia epidémie/pandémie chrípky typu A na základe identifikácie dominantných markerov patogenity a prenosnosti vírusu

(Prediction of influenza A virus epidemic/pandemic outooc by identifying dominant markers of viral pathogeneses 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: 35397 €

Dosiahnuté výsledky:

Preukázali sme, že vírusový proteín PB1-F2 zohráva úlohu v regulácii expície proteínov vírusového polymerázového komplexu, čo môže mať vplyv na patogenitu vírusu.

Zisťovali sme imunogenicitu konzervatívnych antigénov vírusu chrípky M2 a HA2 počas prirodzenej infekcie ľudí aj na zvieracom modeli. Kvantifikovali sme protektívnu schopnosť špecifických protilátok voči týmto antigénom.

Vedecké výstupy:

Király J., Varečková E., Mucha V., Kostolanský V.: Evaluation of anti-influenza efficiency of polyclonal IgG antibodies specific to the ectodomain of M2 protein of influenza A virus by passive immunization of mice. *Acta virologica*, 55 (2011) p. 261-265. IF: 0:744

Stanecková Z., Mucha V., Sladková T., Blaskovičová H., Kostolanský F. and Varečková E.: Epitope specificity of anti-HA2 antibodies induced in humans during influenza infection. *Influenza and Other Respiratory Viruses*, IF: 3.812, accepted 8.December 2011

Kosik I, Krejnosova I., Bystricka M., Polakova K., Russ G.: N-terminal region of the PB1-F2 protein is responsible for increased expression of influenza A viral protein PB1. *Acta Virol.*, 2011, 55, 45-54

Programy: Štrukturálne fondy EÚ Výskum a vývoj

34.) 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:	UMFG SAV
Počet spoluriešiteľských inštitúcií:	5 - Slovensko: 5
Čerpané financie:	žiadne

Dosiahnuté výsledky:

Zaviedli sme efektívnu a citlivú metódu duplexnej PCR vhodnú na súčasnú identifikáciu prítomnosti dvoch herpetických vírusov - Ľudského cytomegalovírusu (HCMV) a vírusu Epsteina-Barrovej (EBV), ktoré sa v populácii ľudí prenášajú predovšetkým kontaminovanými slinami. Vyvinutou metódou je možné nezávisle detekovať 300 resp. 30 kópií HCMV alebo EBV. Diferenciálna diagnostika spúta prinajmenšom imunokompromitovaných pacientov umožní včasnú, citlivú a rýchlu detekciu reaktivácie HCMV a EBV z latencie. Takáto diagnostika umožňuje včas zahájiť vhodnú liečbu, ktorá okrem prevencie prenosu herpetických vírusov kontaktom predstavuje aj prevenciu možnej kongenitálnej infekcie plodu (v prípade HCMV) alebo chronickej infekcie vedúcej k transformácii vnímavých buniek (v prípade EBV). Identifikácia reaktivácie herpetických vírusov je v súčasnosti kľúčovou oblasťou záujmu vo vývoji a implementácii nových stratégií antivírusovej terapie.

Vedecké výstupy:

HALÁSOVÁ, Z - LAPUNIKOVÁ, B. - OROLIN, M - KOŠOVSKÝ, J - PANČÍK, P- JANÍKOVÁ, K. - REŽUCHOVÁ, I - KÚDELOVÁ, M. Molekulárna diagnostika herpetických vírusov: detekcia vírusu Epstein-Barrvej. In: Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov, Eds M Galamboš, V Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 238 - 243. ISBN 978-80-223-3013-8.

LAPUNIKOVÁ, B. - KOŠOVSKÝ, J - PANČÍK, P- HALÁSOVÁ, Z- REŽUCHOVÁ, I - KÚDELOVÁ, M. Diferenciálna diagnostika herpetických vírusov: detekcia EBV a HCMV v. In Študentská vedecká konferencia Prif UK 2011 : zborník recenzovaných príspevkov Eds. M Galamboš, V Džugasová. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2011, s. 456 - 461. ISBN 978-80-223-3013-8.

OROLIN, M - LAPUNIKOVÁ, B. - KOŠOVSKÝ, J - BETÁKOVÁ, T - HALÁSOVÁ, Z - PANČÍK, P - REŽUCHOVÁ, I - KÚDELOVÁ, M. Differential diagnostics of Human Cytomegalovirus and Epstein-Barr virus in clinical material. In Tomáškovy dny 2011 : Sborník abstraktu. - Brno, 2011, p. 49. ISBN 978-80-263-0004-5.

35.) Centrum excelentnosti pre translačný výskum v molekulárnej medicíne

(Center of Excellence for Translational Research in Molecular Medicine)

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.6.2009 / 31.5.2011
Evidenčné číslo projektu:	26240120008
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Virologický ústav SAV
Počet spoluriešiteľských inštitúcií:	8 - Slovensko: 8
Čerpané financie:	ASFEU: 24745 €

Dosiahnuté výsledky:

V roku 2011 bola ukončená fáza transferu poznatkov k užívateľom infraštruktúry vybudovanej z projektových prostriedkov. Všetci partneri využili zakúpené prístroje a zariadenia na riešenie výskumných úloh vyplývajúcich z rôznych domácich a/alebo zahraničných projektov a na posilnenie vzájomnej spolupráce.

36.) Centrum excelentnosti pre translačný výskum v molekulárnej medicíne 2.

(Centre of Excellence for Translational Research in Molecular medicine 2) ľudová tvorivosť

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: 1816819 €

Dosiahnuté výsledky:

V roku 2011 boli vykonané verejné obstarávania na zariadenia určené pre jednotlivých partnerov Centra excelentnosti. Niektoré zo zariadení boli dodané a uvedené do prevádzky, napr. hmotnostný spektrometer MALDI-TOF/TOF (pre VÚ SAV), systém na analýzu buniek v tkanivách Image stream, infračervený zobrazovací systém, kryostat a mikrotóm (pre ÚEO SAV), multimodálna platničková čítačka, systém pre 2D elektroforézu a sonifikátor (pre ÚMB SAV), HPLC detektor na báze rozptylu svetla (pre ÚBGZ).

Vedecké výstupy:

Martina Takáčová, Mária Bartošová, Miriam Zaťovičová, Lucia Škvarková, Jaromír Pastorek, Silvia Pastoreková, Ján Brežá: CA IX PREDSTAVUJE KLINICKY VÝZNAMNÝ BIOMARKER ASOCIOVANÝ S NÁDORMI OBLIČIEK. Klinická urológia 1/2011, 1-5

37.) Priemyselný výskum v klinickej diagnostike infekčných patogénov

(Industrial Research in Clinical Diagnostics of Infectious Pathogens) ľudová tvorivosť

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: 319446 €

Dosiahnuté výsledky:

V roku 2011 sme uskutočnili verejné obstarávania a nákup niektorých zariadení, vrátane vysokoobrátkovej centrifúgy (ultracentrifúgy) a automatického systému na nanášanie a analýzy vzoriek. Tieto zariadenia boli uvedené do prevádzky a začal sa na nich realizovať priemyselný výskum, ktorý je predmetom projektu, t.j. vývoj platformy na detekciu infekčných patogénov.

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:	žiadne

Dosiahnuté výsledky:

V roku 2011 sa začali realizovať aktivity projektu spojené s prípravou verejných obstarávaní na plánovanú infraštruktúru a s produkciou biologických materiálov potrebných na vývoj a testovanie nových diagnostických prístupov.

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

(Developing a Competency 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 Bratislave
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	ASFEU: 14996 €

Dosiahnuté výsledky:

Projekt sme začali riešiť v poslednom štvrtroku 2011 obstarávaním infraštruktúry potrebnej na budovanie kompetenčného centra.

40.) Centrum excelentnosti pre využitie informačných biomakromolekúl v prevencii ochorení a pre zlepšenie kvality života *(Centre of Excellence for the Use of Informational Biomacromolecules in Prevention of Diseases and for Improvement of the Quality of Life)*

Zodpovedný riešiteľ:	Silvia Pastoreková
Trvanie projektu:	1.7.2009 / 30.6.2011
Evidenčné číslo projektu:	26240120003
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedcká fakulta UK
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	žiadne

Dosiahnuté výsledky:

Prietokový cytometer Guava, ktorý sme získali v rámci projektu (nákup realizovaný koordinátorom projektu), sme využili na analýzu a detekciu nádorových biomarkerov (napr. sledovanie expresie CA IX), kvantifikáciu antigénov a protilátok, určenie počtu a viability buniek v monovrstve alebo 3D sferoide, určenie účinnosti tranfekcie rôznych vektorov v cicavčích bunkách. Sledovali sme stabilitu väzby potenciálne imunogénnych peptidov odvodených od vírusu LCMV v HLA komplexe na T2 bunkách.

Vedecké výstupy:

Ditte P, Kopáček J, Pastorek J, Pastoreková S. Flow cytometry - the sensitive method for detection of molecular markers in cancer. Acta Physica Universitatis Comenianae vol. I.II (2011) 55-59.

Csáderová L, Hulíková A, Švastová E, Pastoreková S. Confocal laser scanning microscopy in translational research of molecular tumor markers. Acta Physica Universitatis Comenianae vol. I.II (2011) 61-65.

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

(Improvement of Centre of Excellence 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:	žiadne

Dosiahnuté výsledky:

V súlade s projektovými zámermi sme prostredníctvom koordinátora projektu zrealizovali nákup infraštruktúry, t.j. prídavného zariadenia ku konfokálnemu mikroskopu vhodné na pozorovanie buniek v reálnom čase. Toto zariadenie sme uviedli do prevádzky a začali sme ho využívať na experimentálne účely, najmä na štúdium bunkovej motility a migrácie a úlohy nádorových molekúl v týchto procesoch.

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: 281024 €

Dosiahnuté výsledky:

V roku 2011 sme uskutočnili verejné obstarávanie a nákup plnoautomatického systému na purifikáciu bioaktívnych makromolekúl. Toto zariadenie bolo uvedené do prevádzky a začal sa na ňom realizovať výskum, ktorý je predmetom projektu. Zároveň prebehli aj pokusy s klonovaním vybranej bioaktívnej makromolekuly do vhodného eukaryotického expresného vektora.

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

(Development of Diagnostic Methods for Detection of Pathogens Transmitted 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: 3576 €

Dosiahnuté výsledky:

Koordinátor projektu začal výberové konanie na zabezpečenie infraštruktúry projektu. Naše pracovisko pre uvedenú činnosť vypracovalo podklady pre definovanie špecifik zariadení.

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:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	UMFG SAV
Počet spoluriešiteľských inštitúcií:	6 - Slovensko: 6
Čerpané financie:	žiadne

Dosiahnuté výsledky:

Uskutočnili sme analýzu expresie génov kódujúcich metaloproteinázy a rôzne markery hypoxie v nádorových bunkových líniach v podmienkach miernej hypoxie (2% kyslík) a normoxie a tiež pri pufrovaní extracelulárnej acidózy. Prvotné výsledky ukazujú, že acidóza výrazne ovplyvňuje génovú expresiu v nádorových bunkách vystavených hypoxii. Výsledky zatiaľ neboli publikované.

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:	MŠ SR: 33000 €

Dosiahnuté výsledky:

Cieľom projektu je pripraviť adaptovaný kmeň vírusu osýpok a mumpsu na diploidné bunky. Spravili sme 12 pasáží vírusu osýpok a 13 pasáží vírusu mumpsu na diploidných bunkách. V priebehu pasážovania sa sledoval infekčný titer vírusu, ktorý postupne počas pasážovania narastal. V adaptácii vírusov na diploidné bunky sa bude pokračovať.

46.) Priamy dôkaz *Borrelia burgdorferi* vo vzorkách pacientov s Lymeskou boreliózou, molekulárno–biologická analýza a skrížená reaktivita s vybranými druhmi kliešťami prenášaných patogénov

*(Direct detection of *Borrelia burgdorferi* in Lyme borreliosis patients samples, molecular biological analysis and cross reactivity with selected pathogen species transmitted by ticks)*

Zodpovedný riešiteľ:	Katarína Schwarzová
Trvanie projektu:	19.8.2008 / 31.12.2011
Evidenčné číslo projektu:	MZSR 2007/11-SZU-07
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská zdravotnícka univerzita
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	žiadne

Dosiahnuté výsledky:

V priebehu riešenia projektu došlo k ukončeniu pracovného pomeru riešiteľky z VÚ SAV.

Programy: Podpora MVTs z prostriedkov SAV

47.) Podpora MVTs - 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:	1.3.2009 / 28.2.2013
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Agricultural University of Athens, Greece
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV- podpora MVTs: 4000 €

Dosiahnuté výsledky:

Pokračovala spolupráca fungujúcej siete laboratórií riešiacich problematiku RNA variability, gene silencing, produkcie dvojláknovej RNA a krížovej ochrany.

S cieľom nájdenia alternatívneho lacného a ekologicky prijateľného nosiča sme testovali súbor viacerých lacných a netoxických materiálov ako potenciálnych nosičov DNA. Celite 512 bol schopný úspešne dodať cDNA do rastlín *Nicotiana benthamiana* a indukovať ich infekciu. Pokračovali sme v štúdiu genetickej variability niektorých RNA vírusov pomocou parciálnej alebo úplnej sekvenácie ich genómu (Plum pox virus, Watermelon mosaic virus, Zucchini yellow mosaic virus, Grapevine fleck virus).

Vedecké výstupy:

Nagyová A, Predajňa L, Glasa M, Šubr Z (2011): An alternative and ecological source of microprojectils for biolistic DNA delivery into plant tissues. *Acta Virologica*, 55: 365 – 366.

Príloha C

Publikačná činnosť VÚ SAV - zoradená podľa kategórií

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

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3. [1.1] Stropkovska A, Janulikova J, Vareckova E Trends in development of the influenza vaccine with broader cross-protection *ACTA VIROLOGICA* Volume: 54 Issue: 1 Pages: 7-19 Published: 2010, WOS

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ADDA45 SLÁDKOVÁ, Tatiana - KOSTOLANSKÝ, František. The role of cytokines in the immune response to influenza A virus infection. In Acta Virologica : international journal, 2006, vol. 50, no. 3, p. 151-162. (0.696 - IF2005). (2006 - Current Contents). ISSN 0001-723X.

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MEMORIAS DO INSTITUTO OSWALDO CRUZ Volume: 105 Issue: 7 Pages: 914-917
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ADDA47 STROPKOVSKÁ, Andrea - MUCHA, Vojtech - FISLOVÁ, Tatiana - GOCNÍK, Michal - KOSTOLANSKÝ, František - VAREČKOVÁ, Eva. Broadly cross-reactive monoclonal antibodies against HA2 glycopeptide of Influenza A virus hemagglutinin of H3 subtype reduce replication of influenza A viruses of human and avian origin. In *Acta Virologica : international journal*, 2009, vol. 53, no. 1, p. 15 - 20. (0.810 - IF2008). (2009 - Current Contents). ISSN 0001-723X.

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ADDA49 ŠKULTÉTY, Ľudovít - HERNYCHOVÁ, L. - BEREGHÁZYOVÁ, E. - SLABÁ, Katarína - TOMAN, Rudolf. Detection of specific spectral markers of *Coxiella burnetii* isolates by MALDI-TOF mass spectrometry. In *Acta Virologica : international journal*, 2007, vol. 51, no. 1, p. 55-58. (0.788 - IF2006). (2007 - Current Contents). ISSN 0001-723X.

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ADDA50 ŠPITÁLSKA, Eva - BOLDIŠ, Vojtech - KOŠŤANOVÁ, Z. - KOCIANOVÁ, Elena - ŠTEFANIDESOVÁ, Katarína. Incidence of various Tick-borne microorganisms in rodents and ticks of central Slovakia. In *Acta Virologica : international journal*, 2008, vol. 52, p. 175 - 179. (0.560 - IF2007). (2008 - Current Contents, Current Awareness in Biological Sciences , Chemical Abstracts and Excerpta Medica database). ISSN 0001-723X.

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2. [1.1] Franke J (Franke, J.)¹, Meier F (Meier, F.)², Moldenhauer A (Moldenhauer, A.)¹, Straube E (Straube, E.)², Dorn W (Dorn, W.)¹, Hildebrandt A (Hildebrandt, A. Established and emerging pathogens in *Ixodes ricinus* ticks collected from birds on a conservation island in the Baltic Sea MEDICAL AND VETERINARY ENTOMOLOGY Volume: 24 Issue: 4 Pages: 425-432 Published: DEC 2010, WOS

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ADDA51 ŠPITÁLSKA, Eva - KOCIANOVÁ, Elena. Agents of Ehrlichia phagocytophila group and other tick-borne microorganisms co-infecting ticks in southwestern Slovakia. In Acta Virologica : international journal. - Bratislava : Virologický ústav SAV, 1957-, 2002, vol. 46, p. 49-50. (0.644 - IF2001). (2002 - Current Contents). ISSN 0001-723X.

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ADDA56 VADOVIČ, Pavol - FODOROVÁ, M. - TOMAN, Rudolf. Structural features of lipid A of Piscirickettsia salmonis, the etiological agent of the Salmonid rickettsial septicemia. In Acta Virologica : international journal, 2007, vol. 51, no. 4, p. 249-259. (0.788 -

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ADEA Vedecké práce v zahraničných nekarentovaných časopisoch impaktovaných

ADEA01 KHASNATINOV, Maxim A. - USTANIČKOVÁ, Katarína - FROLOVA, T. - POGODINA, Vanda V. - BOCHKOVA, N.G. - LEVINA, L.S. - SLOVÁK, Mirko - KAZIMÍROVÁ, Mária - LABUDA, Milan - KLEMPA, Boris - ELEČKOVÁ, Elena - GOULD, E.A. - GRITSUN, T.S. Non-Hemagglutinating Flaviviruses: Molecular Mechanisms for the Emergence of New Strains via Adaptation to European Ticks. In *PLoS ONE*, 2009, vol. 4, no. 4, p. 1-11. (2009 - Current Contents). ISSN 1932-6203. Názov z titulnej obrazovky. Požaduje sa Adobe Reader. Dostupné na internete: <<http://www.plosone.org>>.

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2. [1.1] RUZEK, DANIEL - YAKIMENKO, VALERIY V - KARAN, LYUDMILA S - TKACHEV, SERGEY E. Omsk haemorrhagic fever *LANCET* Vol. 376, no. 9758 (2010), p. 2104-2113, WOS

ADEA02 LITERÁK, I. - ŘEHÁČEK, J. Q fever distribution and importance of this disease in Czech Republic and in the Slovak Republic. In *Veterinární medicína*, 1996, vol. 41, no. 2, p. 45 - 63. ISSN 0375-8427.

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1. [1.1] Dorko, E (Dorko, Erik)¹; Rimarova, K (Rimarova, Kvetoslava)¹; Pilipinec, E (Pilipinec, Emil)²; Travnicek, M (Travnicek, Milan)³ PREVALENCE OF COXIELLA BURNETII ANTIBODIES IN WILD RUMINANTS IN KAVECANY ZOO, KOSICE, EASTERN SLOVAKIA *ANNALS OF AGRICULTURAL AND ENVIRONMENTAL MEDICINE* Volume: 16 Issue: 2 Pages: 321-324 Published: DEC 2009, WOS

ADEB Vedecské práce v zahraničných nekarentovaných časopisoch neimpaktovaných

ADEB01 MALI, V.R. - ŠUBR, Zdeno W. - KÚDELA, Otakar. Seed Transmission of Como and potyvirus 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. [1.1] Petrzik, K. Complete genome sequence of broad bean true mosaic virus ARCHIVES OF VIROLOGY Volume: 155 Issue: 7 Pages: 1179-1181 DOI: 10.1007/s00705-010-0668-2 Published: JUL 2010, WOS, WOS

ADEB02 RAVELONANDRO, M. - BRIARD, P. - GLASA, Miroslav - ADAM, S. The ability of a mild isolate of Plum pox virus to cross-protect against sharka virus. In Acta Horticulturae, 2008, vol. 781, p. 281-286.

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1. [1.2] Dang, P.M., Scully, B.T., Lamb, M.C., Guo, B.Z. Analysis and RT-PCR identification of viral sequences in peanut (*Arachis hypogaea* L.) expressed sequence tags from different peanut tissues Plant Pathology Journal 9 (1), pp. 14-22, 2010, SCOPUS

ADFB Vedecské práce v domácich nekarentovaných časopisoch neimpaktovaných

ADFB01 LUKÁČOVÁ, Magdaléna - MELNIČÁKOVÁ, Jana - QUEVEDO-DIAZ, Marco - BARÁK, Imrich. Coxiella burnetii as a query microorganism. In Biologia : journal of the Slovak Academy of Science, 2002, vol. 57, no. 6, p. 713-720. (0.208 - IF2001). (2002 - Current Contents). ISSN 0006-3088.

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AEGA Stručné oznámenia, abstrakty vedeckých prác v zahraničných karentovaných časopisoch impaktovaných

AEGA01 KOLLEROVÁ, Edita - NOVÁKOVÁ, Slavomíra - ŠUBR, Zdeno W. - GLASA, Miroslav. Plum pox virus mixed infection detected on apricot in Pakistan. In Plant Disease, 2006, vol. 90, p. 1108. (2.387 - IF2005). ISSN 0191-2917.

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AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 CÍGLEROVÁ, Ivana - TARAGEL'OVÁ, Veronika - DERDÁKOVÁ, Markéta - ŠPITÁLSKA, Eva - KAZIMÍROVÁ, Mária. Vertical distribution of Ixodes ricinus tick and pathogens transmitted by them in the Martinské hole Mountains (Central Slovakia). In EDEN 2010: Emerging vector-borne diseases in a changing European environment. - Montpellier : Cirad, 2010, s. 114-115.

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1. [3] EFSA. Panel on Animal Health and Welfare (AHAW). *Scientific Opinion on Geographic Distribution of Tick-borne Infections and their Vectors in Europe and the other Regions of the Mediterranean Basin* EFSA Journal 2010; 8 (9):1723

AFG02

KOČI, Juraj - TARAGEL'OVÁ, Veronika - DERDÁKOVÁ, Markéta - SELYEMOVÁ, Diana - CÍGLEROVÁ, Ivana - LENČÁKOVÁ, Daniela - MAJLÁTHOVÁ, Viktória - VÍCHOVÁ, Bronislava - STANKO, Michal - KAZIMÍROVÁ, Mária - LABUDA, Milan. Spatio-temporal distribution of Ixodes ricinus ticks and prevalence of tick-borne pathogens in Slovakia. In EDEN 2010: Emerging vector-borne diseases in a changing European environment. - Montpellier : Cirad, 2010, s. 12-13.

Citácie:

1. [3] EFSA. Panel on Animal Health and Welfare (AHAW). *Scientific Opinion on Geographic Distribution of Tick-borne Infections and their Vectors in Europe and the other Regions of the Mediterranean Basin* EFSA Journal 2010; 8 (9):1723

Príloha D

Údaje o pedagogickej činnosti VÚ SAV

Semestrálne prednášky:

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

Názov semestr. predmetu: *Štruktúra a morfogénéza vírusov*

Počet hodín za semester: 56

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

- **RNDr. Elena Kocianová, DrSc.**

Názov semestr. predmetu: *Akarológia*

Počet hodín za semester: 20

Názov katedry a vysokej školy: Katedra zoológie, Prírodovedecká fakulta UK

- **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

- **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

Názov semestr. predmetu: *Základy molekulárnej imunológie*

Počet hodín za semester: 6

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

- **RNDr. Marcela Kúdelová, DrSc.**

Názov semestr. predmetu: *Vybrané kapitoly z virológie - Molekulárna diagnostika vírusov*

Počet hodín za semester: 3

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

- **RNDr. Martina Labudová, PhD.**

Názov semestr. predmetu: *Biosyntéza vírusov*

Počet hodín za semester: 3

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

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

Názov semestr. predmetu: *Biosyntéza vírusov*

Počet hodín za semester: 13

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

Názov semestr. predmetu: *Regulácia expresie génov v eukaryotoch*

Počet hodín za semester: 13

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

- **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

Názov semestr. predmetu: *Bunková a molekulárna biológia rakoviny*

Počet hodín za semester: 26

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

Názov semestr. predmetu: *Regulácia expresie génov v eukaryotoch*

Počet hodín za semester: 13

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

- **RNDr. Juraj Petřík, DrSc.**

Názov semestr. predmetu: *Molekulárna imunológia*

Počet hodín za semester: 12

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

- **Ing. Jana Tomášková, PhD.**

Názov semestr. predmetu: *Molekulárna imunológia*

Počet hodín za semester: 4

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

- **RNDr. Miriam Zaťovičová, CSc.**

Názov semestr. predmetu: *Molekulárna imunológia*

Počet hodín za semester: 2

Názov katedry a vysokej školy: Katedra molekulárnej biológie, Prírodovedecká fakulta UK

Semestrálne cvičenia:

- **RNDr. Elena Kocianová, DrSc.**

Názov semestr. predmetu: *Akarológia*

Počet hodín za semester: 20

Názov katedry a vysokej školy: Katedra zoológie, Prírodovedecká fakulta UK

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

- **RNDr. Vladimír Zelník, CSc.**

Názov semestr. predmetu: *Imunológia vírusových nákaz*

Počet hodín za semester: 4

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

Terénne cvičenia:

- **Ing. Ľudovít Škultéty, PhD.**

Názov semestr. predmetu: *Vybrané kapitoly z mikrobiológie - Proteomika v praxi*

Počet hodín za semester: 4

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

Individuálne prednášky:

- **RNDr. Elena Kocianová, DrSc.**

Názov semestr. predmetu: *Vybrané kapitoly z akarológie*

Počet hodín za semester: 3

Názov katedry a vysokej školy: Katedra zoológie, Prírodovedecká fakulta UK

- **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

Názov semestr. predmetu: *Vybrané kapitoly z virológie*

Počet hodín za semester: 2

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

- **Ing. Ľudovít Škultéty, PhD.**

Názov semestr. predmetu: *Vybrané kapitoly z mikrobiológie - Úvod do proteomiky a hmotnostnej spektrometrie*

Počet hodín za semester: 4

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

- **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

- **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

Príloha E**Medzinárodná mobilita VÚ SAV:****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko			Klempa	2	Pastoreková	3
Česko			Obacz	4	Čiampor	1
			Radosa	1	Janulíková	4
			Siebenstichová	1	Kamencayová	4
			Tóthová	1	Klempa	1
					Nagyová	4
					Staneková	4
					Škultéty	2
					Šubr	6
					Zelník	1
Dánsko			Pastoreková	2		
Francúzsko			Sekeyová	14	Glasa	4
					Havlíková	5
					Kostolanský	4
					Predajňa	4
					Varečková	4
Grécko					Pastoreková	3
Maďarsko					Glasa	1
					Kocianová	3
					Kúdela	1
					Nagyová	1
Nemecko			Bolaeva	31	Glasa	4
			Klempa	61	Predajňa	4
Poľsko					Kocianová	3
Portugalsko					Bullová	9
					Tóthová	9
Rakúsko					Pastoreková	2
Rumunsko					Glasa	4
					Predajňa	4
Španielsko					Kopáček	3
					Pastoreková	3
Švajčiarsko					Csáderová	6
					Tomášková	9
Taiwan					Pastoreková	8
Veľká Británia					Havlíková	3
					Klempa	7
Počet vyslaní spolu			9	117	35	138

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	Druh dohody					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko			Ing. Peter Šebo, PhD.	1		
Maďarsko			prof. Laszlo Palkovics	1		
Rakúsko			Dr. Andrea Volkerstorfer	1		
			Dr. Andrej Jegorov, PhD.	5		
			Dr. Boris Ferko, PhD.	5		
			Dr. Helmut Buschmann	1		
Taliansko			Dr. Claudiu Supuran	5		
			Dr. Giuseppina De Simone	3		
			prof. Nicola Zambrano	9		
Ukrajina			Dr. Maksym Danchenko	105		
USA					prof. Giovanni Melillo	3
Veľká Británia					Dr. Niluka Goonawardane	23
Počet prijatí spolu			10	136	2	26

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	Mikroskopie 2011	Čiampor	3
	RECAMO	Benej	4
	TD	Borovská	2
		Orolín	2
		Vadovič	2
Francúzsko	ISPDC	Pastoreková	4
		Švastová	4
Grécko	IMR and RD	Sekeyová	5
		Toman	5
Holandsko	EORTC	Pastoreková	3
Maďarsko	ICHSM	Pančík	1
Nemecko	DVV	Klempa	3
Poľsko	EFSA	Kúdela	10
Srbsko	ICSMC	Berthová	3
	S on P	Nagyová	4
		Šubr	4
Španielsko	BioMicroWord 2011	Toman	6
	TTD 7	Havlíková	6
		Špitalská	6
Švajčiarsko	OXYGEN 2011	Pastorek	6
		Pastoreková	6

Taliansko	16th EUROCARB	Toman	7
	CA SM	Ditte, Peter	4
		Kopáček	4
		Zat'ovičová	4
		Pastoreková	4
		Takáčová	4
	DID FI	Sekeyová	5
	KEABP	Kúdela	3
	MCEM	Čiampor	8
Turecko	ENIVP	Klempa	4
Spolu	21	31	136

Skratky použité v tabuľke C:

16th EUROCARB - 16th Edition of the European Carbohydrate Symposium

BioMicroWord 2011 - IV International Conference on Environmental, Industrial and Applied Microbiology,
BioMicroWord 2011

CA SM - Carbonic Anhydrase Satellite Meeting

DID FI - Diagnosing Infectious Diseases: Future and Innovation

DW - Jahrestagung der Deutschen Vereinigung zur Bekämpfung der Viruskrankheiten e.V

EFSA - European Food and Safety Authority

ENIVP - Meeting of the European Network for Diagnostic of "Imported Viral Diseases"

EORTC - European Organization for Research and Treatment of Cancer

ICHSM - 16th International Congress of the Hungarian Society for Microbiology

ICSMC - International Conference on the Survey Monitoring and Conservation of the Long - eared Owl

IMR and RD - The 6th International Meeting on Rickettsiae and Rickettsial Diseases

ISPDC - International Society for Proton Dynamics in Cancer

KEABP - Koloqium Európskej agentúry pre bezpečnosť potravín

MCEM - Multinational Electronmicroscopy Conference

Mikroskopie 2011 - Výročná konferencia Československej mikroskopickej spoločnosti

OXYGEN 2011 - OXYGEN 2011

RECAMO - 2nd RECAMO Joint Meeting

S on P - Symposium on Plum

TD - Tomáškové dni

TTD 7 - Tick and Tickborn Diseases