Public Health

RECOOP HST Research Activity Inventory

Please complete the template for each selected project your organization would like to share with the partners of the RECOOP HST Consortium and would like to invite other organizations to write FP7 or NIH proposals.

Organization	Faculty of Military Health Sciences, University of Defence
Area of the Research	Medical countermeasures against intoxications caused by chemical warfare agents; Molecular diagnostics; Toxicology; Pharmaceutical discovery and development
Title of the Research Activity	Medical Countermeasures of Nuclear, biological and chemical casualties

Department (complete address)	**Principal Investigator or Head of the Research Group**
[1]Department of Toxicology [2]Center of Advanced Studies Faculty of Military Health Sciences, University of Defence Trebesska 1575 500 01 Hradec Kralove Czech Republic	Name: Jiri Kassa Title: prof. Tel: +420 973 251 500 Fax: +420 495 518 094 E-mail: kassa@pmfhk.cz

Abstract Maximum 500 characters

The research plan "Medical Problem of Weapons of Mass Destruction" will be realized at three departments of the applicant. The subject of the research activity performed at the Department of Toxicology will be to study the biological effects of important CWA misused as chemical weapons by armed forces or terrorists and to develop new medical countermeasures for the protection of people. At the Department of Radiobiology, ionizing radiation effects at molecular level in diagnostics, protection and treatment of humans against the nuclear weapons will be studied. The research plan will be focused on the identification of proteins playing a key role in cellular response to ionizing irradiation. The research activity carried out at the Institute of Molecular Pathology will cover the study of molecular structures of microbes from the BW-agent list, the analysis of their interaction with host defense mechanisms and the construction of new immunoprophylactic tools for BW-protection.

Methods used Maximum 300 characters

Chemical synthesis. Method for determination of activity of cholinesterases according to Ellman. Potentiostatic titration for determinations of above mentioned activities. Functional observational battery (FOB) consists of 42 behavioral parameters for determination of health effects of chemical warfare agents and the newly developed antidotal means. In vivo animal experiments.

Related references (max 3) Indicate the impact factor of the cited reference

Bajgar J., Fusek J., Bartosova L., Jun D., Kuca K.: Evaluation of reactivation test in experimental intoxication with nerve agents. Journal of Apllied Toxicology. 2006, 26(5), 439-443 (IF 1.85)

Kassa J., Kuca K., Jun D.: The Reactivating and Therapeutical Efficacy of Oximes to Counteract Russian VX Poisonings. International Journal of Toxicology. 2006, 25(5), 397-401 (IF 1.02)

Kuca K., Cabal J., Jun D., Bajgar J., Hrabinova H.: Potency of new structurally different oximes to reactivate cyclosarin inhibited-human brain acetylcholinesterases. Journal of Enzyme Inhibition and Medicinal Chemistry. 2006, 21(6), 6636-666. (IF 1.66)

Related Inventions Disclosures and Patents none

Planning grant application (please mark your selection with X)	FP7		NIH	
Only participating in projects (please mark your selection with X)	FP7		NIH	

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Please complete the template for each selected project your organization would like to share with the partners of the RECOOP HST Consortium and would like to invite other organizations to write FP7 or NIH proposals.			
Organization	University of Debrecen, Medical and Health Science Center		
Area of the Research	Public Health, Preventive Medicine		
Title of the Research Activity	Molecular genetic investigation		
Department (complete address)		**Principal Investigator or Head of the Research Group**	
University of Debrecen, Medical and Health Science Center, Department of Preventive Medicine Kassai 26., Debrecen 4028, Hungary		Name: Roza Adany Title: Full Professor Tel: 00 36 52 417 267 Fax: 00 36 52 417 267 E-mail: adany@dote.hu	
Abstract	Maximum 500 characters		
The main research areas have been focused to identification of those genetic markers that may play a significant role in the development of cardiovascular and other non communicable common diseases. In the genetic epidemiological studies frequencies of the involved genetic polymorphisms (SNPs) and their proposing risk status are established concerning with hypercholesterolaemia, hypertonia, alcoholic liver disease, metabolic syndrome in the Hungarian population.			
Methods used	Maximum 300 characters		
We have developed new real time PCR based methods to detect apolipoprotein B G3500A, paraoxonase (PON) Leu55Met, PON Arg192Glu, angiotensinogen (AGT) Met235Tre, alcohol dehydrogenase Glu487Lys, aldeyde dehydrogenase Arg47His, PPAR alpha Leu162Val SNPs. Furthermore we have successfully adopted published methods to study apolipoprotein E Arg112Cys and Cys158Arg SNPs. All our SNP investigations are based on ultra fast real time PCR system extended with melting point analysis using fluorescence resonance energy transfer, which technique allows screening SNPs in large populations with high throughput and accuracy.			
Related references (max 3)	Indicate the impact factor of the cited reference		
Széles G, Vokó Z, Jenei T, Kardos L, Pocsai Zs, Bajtay A, Papp E, Pásti G, Kósa Zs, Molnár I, Lun K, Ádány R: A preliminary evaluation of a health monitoring programme in Hungary, Eur J Public Health. 15:26-32 (2005).			
Pocsai, Zs, Tóth, Zs, Paragh, Gy, Széles, Gy: Rapid genotyping of paraoxonase 55 and 192 mutations by melting point analysis using real time PCR technology. Clin Chim Acta 332 31–36 (2003)			
Pocsai, Zs, Paragh, Gy, Ádány, R: Multiplex PCR assay for screening deletions in the low density lipoprotein receptor gene. Clin Chim Acta 307(1):7-12 (2001)			
Related Inventions Disclosures and Patents			

Planning grant application (please mark your selection with X)	FP7		NIH	
Only participating in projects (please mark your selection with X)	FP7		NIH	

RECOOP HST Research Activity Inventory		
Please complete the template for each selected project your organization would like to share with the partners of the RECOOP HST		
Organization	Lviv National Medical University	
Area of the Research	MAJOR INFECTIOUS DISEASES: TO CONFRONT MAJOR THREATS TO PUBLIC HEALTH **or** DISEASE PREVENTION **or** EPIDEMIOLOGY	
Title of the Research Activity	Molecular Epidemiology of Salmonellosis Outbreaks in the Lviv Regions Ukraine	
Department (complete address)		**Principal Investigator or Head of the Research Group**
Department of Pediatric Infectious Diseases, Lviv National Medical University, 69 Pekarska st., Lviv 79010, **Ukraine.** Head of Department Professor Alexander Nadraga*, nadraga05@litech.net*		Name: Hrynash Yuliya MD, PhD Title:Associate Professor Tel:+380-322-930445 Fax: :+380-322-755947 E-mail: yselnet@pochta.ru

Abstract Maximum 500 characters

We propose to undertake a series of studies to assess Salmonella incidence in Ukraine, rates of resistance, and possible modes of transmission within a community setting by performing stool and other appropriate cultures to isolate Salmonella from all suspect cases at the time of hospital admission, serotyping, determining resistance patterns of all isolates, molecular epidemiologic typing to compare patient isolates with isolates from food and agricultural sources, possible human carriers.

Methods used Maximum 300 characters

PFGE - study genetic relatedness of *Salmonella* strains, their relatedness by comparative analyses of PFGE macrorestriction patterns obtained from restriction digestion procedures of genomic DNA, antibiotic resistance; correlative analyses for association between antibiotic-resistance & PFGE types.

Related references (max 3) Indicate the impact factor of the cited reference

Hrynash Yu., The specialty of nosocomial salmonellosis in children// 4th Ukrainian Congress of Parasitologists. Kcharkiv. 4-7. 10. 1995. – P.45-46.

Hrynash Yu., Bilavka V. Sensitivity of salmonella strains, isolated from patients in 2003 year in Lviv city, to antibiotics // Plenum of the Ukrainian Assosiation of Infectionists. Ternopil, 03.05.2004.- P. 42-44.

Kotetishvili M., O.C. Stine, A.Kreger, J.G. Morris, Jr., and A. Sulakvelidze. Multilocus sequence typing for characterization of clinical and environmental Salmonella strains. J. Clin. Microbiol. 2002. 40: 1626-1635.

Related Inventions Disclosures and Patents	Kotetishvili M., Morris, JR Department of Epidemiology and Preventive Medicine, University of Maryland School of Medicine, MSTF Bldg., 10 South Pine Street, Baltimore, MD 21201. asulakve@epi.umaryland.edu

RECOOP HST Research Activity Inventory						
Please complete the template for each selected project your organization would like to share with the partners of the RECOOP HST Consortium and would like to invite other organizations to write FP7 or NIH proposals.						
Organization	Danylo Halytsky Lviv National Medical University					
Area of the Research	Public Health					
Title of the Research Activity	Economic-organizing and pharmacoeconomic grounding in ways of improving of supplying population of Ukraine with medicines					
Department (complete address)		**Principal Investigator or Head of the Research Group**				
Department of Organization and Economics of Pharmacy Danylo Halytsky LNMU Pekarska str. 69, Lviv 79010, Ukraine		Name: Orest Hrom Title: Professor, PhD Tel: +38-03222-768581, (768639) Fax: - E-mail: oef1784@gmail.com				
Abstract	Maximum 500 characters					
Determining main and investing new directions of medicines supply improving, analyzing the situation and structure of pharmaceutical personnel, setting out recommendation for improving pharmaceutical legislation in Ukraine are under our research.						
Methods used	Maximum 300 characters					
Statistical methods, simulation methods, methods of pharmacoeconomic analysis, methods of marketing analysis						
Related references (max 3)	Indicate the impact factor of the cited reference					
Prospects of development of pharmacy service of Ukraine taking into account possible eurointegration // B.P. Hromovyk, S.M. Mokryanyn, S.I. Tereshchuk, I.O. Miroshnikova. – Pharmaceutical Journal. –2007. –№1. –C.3-9 (in Ukrainian).						
Related Inventions Disclosures and Patents						
Planning grant application (please mark your selection with X)			FP7		NIH	
Only participating in projects (please mark your selection with X)			FP7	X	NIH	X