

Viral

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	University of Debrecen, Medical and Health Science Center			
Area of the Research	Microbiology			
Title of the Research Activity	Investigation of human papillomavirus			
Department (complete address)	Principal Investigator or Head of the Research Group			
University of Debrecen, Medical and Health Science Center, Department Medical Microbiology Nagyerdei Krt. 98, Debrecen, 4032-Hungary	Name: Jozsef Konya			
	Title: Associate Professor			
	Tel: 00 36 52 417 565			
	Fax: 00 36 52 417 565			
				E-mail: konya@dote.hu
Abstract	Maximum 500 characters			
Prognostic value of human papillomaviruses in cervical carcinogenesis. Role of cytokines in viral infections. Host and environmental biomarkers in cervical carcinogenesis. Protective role of cellular immunity against human papillomaviruses and human immunodeficiency virus. Epitopes for cytotoxic T-lymphocytes. Epigenetic regulation in viral infections. Microbial persistence and the outcome of chronic infections.				
Methods used	Maximum 300 characters			
phosphorimager, real-time PCR, anaerobic microbial techniques, HIV laboratory				
Related references (max 3)	Indicate the impact factor of the cited reference			
Karosi T, Kónya J, Petko M, Szabo LZ, Pytel J, Jori J, Sziklai I. Antimeasles Immunoglobulin G for Serologic Diagnosis of Otosclerotic Hearing Loss. Laryngoscope. 2006;116:488-493. IF: 1,576				
Szoke K, Sapy T, Krasznai Z, Hernadi Z, Szladek G, Veress G, Dillner J, Gergely L, Kónya J (2003) Moderate variation of the oncogenic potential among high-risk human papillomavirus types in gynecologic patients with cervical abnormalities J. Med. Virol. 71 (4): 585-592 DEC 2003 IF: 2,593				
Murvai M, Borbely AA, Kónya J, Gergely L, Veress G. Effect of human papillomavirus type 16 E6 and E7 oncogenes on the activity of the transforming growth factor-beta2 (TGF-beta2) promoter. Arch Virol. 2004 Dec;149(12):2379-92. IF: 1,841				
Related Inventions Disclosures and Patents				
Planning grant application (please mark your selection with X)	FP7	X	NIH	X
Only participating in projects (please mark your selection with X)	FP7	X	NIH	X

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Organization	University of Debrecen, Medical and Health Science Center			
Area of the Research	Biochemistry; Molecular Biology			
Title of the Research Activity	Biochemistry and enzymology of retroviral replication			
Department (complete address)	Principal Investigator or Head of the Research Group			
University of Debrecen, Medical and Health Science Center, Department of Biochemistry and Molecular Biology Egyetem tér 1., Debrecen, 4032-Hungary	Name: Jozsef Tozser			
	Title: Full Professor			
	Tel: 00 36 411 717 / 65314			
	Fax: 00 36 52 314 989			
	E-mail: tozser@dote.hu			
Abstract	Maximum 500 characters			
One of the major research interests of the LRB is to study the biochemistry and enzymology of retroviral replication, with an emphasis on the function and features of the viral proteinase (PR). Previously we have studied and characterized the PR of the following retroviruses: HIV-1, HIV-2, equine infectious anemia virus, human T-cell leukemia virus, bovine leukemia virus, avian myeloblastosis virus, and human foamy virus. Currently we are concentrating on the characterization of mutant HIV-1 and HTLV-1 proteinases, as well as on the characterization of murine leukemia virus and mouse mammary tumor virus proteinases.				
Methods used	Maximum 300 characters			
Proteomics Core Facility: - Mass Spectrometry Analysis - Ultracentrifugation				
Related references (max 3)	Indicate the impact factor of the cited reference			
Liu, F., Boross, P.I., Wang, Y.F., Tozser, J., Louis, J.M., Harrison, R.W. and Weber, I.T. (2005) Distinct structural changes in high resolution crystal structures of HIV-1 protease with drug resistant mutations L24I, I50V and G73S. <i>J. Mol. Biol.</i> in press.				
Tozser, J., Tropea, J.E., Cherri, S., Bagossi, P., Copeland, T.D., Wlodawer, A. and Waugh, D.S. (2005) Comparison of the substrate specificity of two potyvirus proteases. <i>FEBS J.</i> 272, 514-523.				
Bagossi, P., Kadas, J., Miklossy, G., Boross, P., Weber, I.T. and Tozser, J. (2004) Development of a microtiter plate fluorescent assay for inhibition studies on the HTLV-1 and HIV-1 proteinases. <i>J. Virol. Methods</i> , 119, 87-93				
Related Inventions Disclosures and Patents				
Planning grant application (please mark your selection with X)	FP7	X	NIH	X
Only participating in projects (please mark your selection with X)	FP7	X	NIH	X

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Organization	Institute of Molecular Biology & Genetics, Natl.Acad.Sci. of Ukraine
Title of the Research Activity	Development of compounds active against influenza virus.
Department (complete address)	Principal Investigator or Head of the Research Group
Dept. of synthetic bioregulators Zabolotny Str.150, 03143, Kiev, Ukraine	Name: Anatoly SHVED
	Title: Ph.D.
	Tel: +380445260709
	Fax: +380445260759
	E-mail: shved@imbg.org.ua
Abstract	Maximum 500 characters
<p>The drug screening in different test-systems revealed compounds, active against as viral as bacterial infections. Recently studies have led to the identification of compounds with high anti-influenza activity. Experiments in cell cultures, permissive to influenza virus, showed essential decrease or complete inhibition of virus reproduction under protection with various acrdine derivatives. In the mouse model of influenza some compounds protected from 40 to 80 % of infected animals at 100% mortality in control group. Results of testing activity have been in part presented in several meetings and congresses in the field. A full papers on the subject are in course of publication. Previously obtained results also protected with patents. Further studies should include large scale preclinical testing of the most active derivatives. We are interested also in the determination of possible activity on a suitable model of avian influenza virus infection.</p>	
Methods used	Maximum 300 characters
<p>Chemical synthesis have been performed according to known techniques, but some steps were newly developed to rise purity and quantity of final product. In determination of activity of compounds against bacterial and viral pathogens the standard screening methods were used.</p>	
Related references (max 3)	Indicate the impact factor of the cited reference
<p>Palchykovska L.H., e.a. 2003. Composite bioregulators on the base of phenazine-1-carboxylic acid and 6-azauracil derivatives. Synthesis and structural characteristics. Biopolym. & Cell, 19:281.</p> <p>A.Stankiewicz-Drogoń, e.a. New type of inhibitors of hepatitis C virus (HCV) helicase activity. FEBS Journal (June 2006). - Volume 273, Supplement 1, page 314.</p> <p>Alexeeva I.V., e.a. 2006. Study of biological activity of some 4-derivatives of quinoline. Biopolym. & Cell, 22:468.</p>	
Related Inventions Disclosures and Patents	
Patent of Ukraine № 32901-A. Bulletin №1, 2001	
Patent of Ukraine № 69986 A. Bulletin №9, 2004.	
Patent of Ukraine №3849. Bulletin № 12, 2004.	
Two patents related to influenza and HCV are in course of preparation.	