

Forensic Medicine

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	Forensic chemistry, Analytical toxicology			
Title of the Research Activity	Chemical-toxicological investigation of new narcotics and psychotropic medicines			
Department (complete address)	Principal Investigator or Head of the Research Group			
Department of Toxicological and Analytical Chemistry Danylo Halytsky LNMU Pekarska str., 69 Lviv, 79010, UKRAINE	Name: Halkevych Iryna			
	Title: Associate Professor, PhD			
	Tel: + 38 0322 786437			
	Fax: + 38 0322 757734			
E-mail: galkirin@meduniv.lviv.ua				
Abstract	Maximum 500 characters			
Development of methods of isolation of narcotics and psychotropic preparations from internal organs of human body, in biological liquids and development of modern techniques of obtained extract cleaning. Development methods of qualification and quantification of investigated substances and postmortem forensic examination. Development of testing systems for express diagnosing of intoxications by narcotics and psychotropic preparations.				
Methods used	Maximum 300 characters			
Solid-phase extraction, flash-chromatography, immune-enzyme analysis, UV- and IR-spectrophotometry, high-performance liquid chromatography, capillary electrophoresis, mass-spectrometry, NMR.				
Related references (max 3)	Indicate the impact factor of the cited reference			
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

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Organization	Department of Forensic Medicine, Medical School, University of Pécs
Area of the Research	Forensic expert investigations, forensic pathology, forensic DNA tests, forensic toxicology, criminal toxicology, forensic autopsy, forensic experts' reports based on written documents
Title of the Research Activity	Forensic Medicine
Department (complete address)	Principal Investigator or Head of the Research Group
Department of Forensic Medicine, Medical School, University of Pécs H-7624 Pécs, Szigeti út 12, Hungary	Name: Dr. BAJNÓCZKY, István
	Title: Dr.
	Tel: +36 72 536-230
	Fax: +36 72 536-242
	E-mail: bajnoczky@formed.hu
Abstract	Maximum 500 characters
Research area	
1 Forensic Medicine: <ul style="list-style-type: none"> 1.1 Forensic medical implications of suicides 1.2 Forensic medical implications of medical law suits 1.3 Forensic medical implications of damage suits 1.4 Determination of bone age, gender and pathological changes using chemical procedures 1.5 General and cellular-level effects of drugs 1.6 Oxidative damages of the heart muscle 	
2 Forensic Pathology <ul style="list-style-type: none"> 2.1. Investigation of traumatic brain damages 2.1. Investigation vascular damages caused by traffic accidents 	
3 Forensic DNA Investigations: <ul style="list-style-type: none"> 3.1 Low Copy Number analysis of DNA samples 3.2 DNA analysis in ancient bones 3.3 Validation of mini STR systems and their application in forensic medical DNA determination 3.4 Population genetic investigations by STR systems 	
4 Toxicology: <ul style="list-style-type: none"> 4.1. Toxicological aspects of alcohols and organic solvents 4.1. Investigations of alkaloids in plants 	
Human resources	
Interdisciplinary research unit with international relations: forensic experts (3), physician (5), psychiatrists (2), psychiatrists (1), biologist (1), chemist (1) specialist assistants (3), students of Student Research Societies (4); number of doctoral (PhD) degrees: 4, number of doctor habils: 1.	
Special instruments	
Sterile cubicle, incubator, molecular biological instruments (PCR device, ELFO-equipment, transilluminators, centrifuges), microscopes (invert, light and fluorescent mode microscopes with LCD screens and CCD cameras), HPLC, FPLC chromatographic device (3 gas, 1 fluid), autopsy room, forensic DNA laboratory, forensic toxicological laboratory, laboratory for corpus delicti	

examinations, photo laboratory

Products and services:

1. Forensic autopsy
2. Forensic expertise
3. Forensic psychological and psychiatric investigations
4. Forensic DNA determinations
5. Establishing DNA data bases
6. Fragments analysis, sequencing
7. Hereditary and population genetic investigations
8. Forensic toxicological examinations
9. Forensic pathological investigations
10. Blood alcohol investigations
11. Drug screening investigations
12. Detection of drugs and determination of drug concentration

Methods used	Maximum 300 characters
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Related references (max 3)	Indicate the impact factor of the cited reference
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Related Inventions Disclosures and Patents	
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