

Sensorial System

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	Detection, diagnosis, and monitoring				
Title of the Research Activity	The cognitive dysfunctions in several psychiatric disorders				
Department (complete address)		Principal Investigator or Head of the Research Group			
University of Debrecen, Medical and Health Science Center, Department of Psychiatry Nagyerdei Krt. 98, Debrecen, 4032-Hungary		Name: Istvan Degrell			
		Title: Full Professor			
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Abstract	Maximum 500 characters				
One main area is the study of the cognitive dysfunctions in several psychiatric disorders, such as schizophrenia, dementia, affective and substance-use disorders in order to understand the importance of cognitive deficit in the appearance of clinical symptoms and its effect on the treatment outcome. Other area of the research is the study of the influence of pharmacogenetic factors on the clinical effects and side effects of different psychotropic drugs.					
Methods used	Maximum 300 characters				
- Use of Computerized Automated Cognitive Battery (CANTAB) developed by Cambridge Cognition. The cognitive deficits can be objectively determined in 11 different domains. - Use of Cadwel Spectrum EEG for EEG brain mapping and avoked potential P300 to examine cognitive functions in primary and secondary dementia, mild cognitive impairment, depression and other psychiatric disorders.					
Related references (max 3)	Indicate the impact factor of the cited reference				
Egerhazy A, Berecz R, Bartok E, Degrell I, :Automated Neuropsychological Test Battery(CANTAB) in mild cognitive impairment and in Alzheimer's diseases. Prog Neuropsychopharmacol Biol Psychiatry. 2007 Jan 16; Epub					
Bartok E, Berecz R, Glaub T, Degrell I,: Cognitive functions in prepsychotic patients. Progress in Neuro-Psychopharmacology and Biological Psychiatry 2005; 4:621-625					
Bartok E, Berecz R, Glaub T, Degrell I, Ferencz A: Cognitive functions in prepsychotic and negative-symptom schizophrenic patients. Neuropsychopharmacologia Hungarica 2005; 7:61-65.					
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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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	Creation, Experiment and Research Station (K4), Faculty of Music and Visual Arts, University of Pécs
Area of the Research	Psycho-acoustics; gestural control; 3D virtual reality; media space; visual and form identity; capabilities of materials; creation of new materials; information transfer; interactive instruments and multimedia systems; animation
Title of the Research Activity	Sensorial System
Department (complete address)	Principal Investigator or Head of the Research Group
Faculty of Music and Visual Arts, University of Pécs H-7624 Pécs, Damjanich u. 30, Hungary	Name: Dr. Colin Foster
	Title: Dr
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Abstract	Maximum 500 characters
<p>Research area Innovation in the fields of the visual, acoustic and virtual environment. Finding new roles for the creative arts in the private and public sectors. Creating projects with local industries which provide work experience in new fields for our out-going students, encouraging them to start spin-off businesses of their own.</p> <p>Individual tailor-made research projects centre on research into materials and their roles in the visual environment, creating new materials, and finding new roles for recycled materials. The other main area of research is in the field of sound and media arts, with particular emphasis on intermedial issues and interactive possibilities.</p> <p>Human resources: Each project has a responsible specialist and employs ex- or current students according to the scale of the task, for a specific length of time. The ex-students are encouraged to be self-employed and work on a contract basis.</p> <p>The Centre itself will have a minimal co-ordinating staff in the near future – director, administrator and IT specialist. At present these tasks are performed by tutors in the Faculty of Music and Visual Arts of the University of Pécs, aided by some outside specialists.</p> <p>Special instruments The centre does not currently have its own infrastructure and plant resources, but uses those of the Faculty, which has well-equipped workshops in the fields of sculpture, sound and visual media.</p> <p>Products and services Apart from our specifically research-orientated activities, we offer concerts and exhibitions, loans of artworks, organisation of arts events and related services (sound and lighting installation, publicity-material design, etc).</p>	
Methods used	Maximum 300 characters
Related references (max 3)	Indicate the impact factor of the cited reference
Related Inventions Disclosures and Patents	

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	Institute of Behavioural Sciences Medical School, University of Pécs
Area of the Research	Cognitive and affective neuroscience, cognitive neuropsychology, experimental psychology, psychosomatics, behavioural medicine, affective disorders, brain neural networks, health sociology
Title of the Research Activity	Sensorial System
Department (complete address)	Principal Investigator or Head of the Research Group
Institute of Behavioural Sciences Medical School, University of Pécs H-7624 Pécs, Szigeti út 12, Hungary	Name: Dr. KÁLLAI, János
	Title: Dr
	Tel: +36 72 536256
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	E-mail: janos.kallai@aok.pte.hu Web: http://www.aok.pte.hu/magtud
Abstract	Maximum 500 characters
Research are <ol style="list-style-type: none"> 1 Research groups for cognitive and affective neuroscience: <ol style="list-style-type: none"> i) Cognitive neuropsychology (fundamental research, clinical diagnostics; e.g.: brain lesions and deficits in spatial information processing) ii) Visual perception: affective and endocrine factors (fundamental research; e.g. stress hormones and visual perception) iii) Emotions, health, psychosomatics (fundamental and applied research; e.g. affective and psychosocial factors of pain) iv) Spatial navigation and anxiety (fundamental research; e.g: spatial navigation of epileptic patients) v) Brain neural network functions – animal studies (fundamental research, developing experimental methods; e.g. hippocampal multiunit recording) vi) Human playing behaviour and emotions (fundamental research; e.g. comparative analysis of playing behaviour) 2 Health sociology (fundamental and applied research; e.g. the role of socio-demographic factors in morbidity and mortality measurements) 	
Human resources Interdisciplinary research centre with several international cooperation: physicians (3), psychologists (2), biologist (1), assistant (4), PhD students (3), undergraduate students (9), PhD degree holders (5), habilitated researchers (2).	
Special instruments Laboratory of brain neural networks function: multiunit recording system, behavioural task control system (LOSI). Group for emotions, health, and psychosomatics: Hungarian standardization of international inquiries relevant to research fields; empathy laboratory, video system, multifunctional interview room, heart rate monitoring instrument. Laboratory for cognitive neuropsychology: tests and questionnaires for diagnostic clinical neuropsychology. Laboratory for spatial navigation and anxiety: Human Real Arena Maze (RAM) apparatus for measuring human spatial navigation, software package for generating virtual spatial environment (a human computer model of Morris type water maze task), Noldus-Ethovision software package (version 2.1) combining with a video-tracking system for recording and scoring the navigation performance in RAM.	
Methods used	Maximum 300 characters

Related references (max 3)	Indicate the impact factor of the cited reference
Related Inventions Disclosures and Patents	