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Faculty of Biology University of Belgrade The Centre for Laser Microscopy

Scientific field (Frascati Manual)

Behavioural sciences biology

Other biological topics

Neurosciences (including psychophysiology)

Brief description of expertise

Confocal microscopy on cell cultures and tissue samples. Cellular electrophysiology. Epifluorescence of ion markers in cells. MRI of small animals (in collaboration). Animal and cell models of neurodegenerative diseases. The role of extracellular matrix in the plasticity of the central nervous system.

Keywords

neurodegenerative diseases, amyotrophic lateral sclerosis, cerebral ischemia, extracellular matrix, inflammation, oxidative stress, intracellular calcium, confocal microscope, patch clamp, neural cell cultures

Commercial services

Imaging on a Confocal Microscope (biological and other fluorescently labeled samples). Osmotic measurements of liquid samples.

Realized and current projects

A) NATIONAL PROJECTS

Title	Project ID	Funding source	Duration
"Biophysical neuroprofiling on experimental models of CNS	143054B	Ministry of Science and	2006-2010
damage and recovery."		Environmental Protection, RS	
"Biomarkers in		Ministry of Education, Science	
neurodegenerative and malignant processes."	III41005	and Technology, RS	2011-2015
B) INTERNATIONAL PROJECTS			

Title	Project ID	Funding source	Duration
«Neural regeneration and	D21	COST ESE	2005-2009
plasticity"	B31	COST-ESF	2003-2009

Title	Project ID	Funding source	Duration
"Centre of Excellence" grant		Psysiological Society (UK)	2006-2008
"Reinforcing a center for laser			
microscopy and cell profiling	026400	EC FP6	2006-2009
for regional networking -			
NEUROIMAGE"			
"The role of the endosomes in			
the excitotoxic neuronal			
injury - importance for the		Bilateral Croatia-Serbia	2008-2010
pathogenesis of amyotrophic			
lateral sclerosis."			
"The state of mitochondria in			
the pyramidal cells of		Bilateral-SANU- Academy of Sciences Ukraine	2008-2012
hippocampus after an			
ischemic episode"			
"Molecular Imaging on cells			
from the animal model of		Bilateral Hungary-Serbia	2010-2011
amyotrophic lateral sclerosis"			
«Brain Extracellular Matrix in		COST-ESF	2010-2014
Health and Disease (ECMNet)"	BM1001		
EU-ROS	BM 1203	COST-ESF	2012-2016
"Neuroimmunology of ALS – a		Dilatoral France Carleia	2007 2000
biophysical approach"		Bilateral France-Serbia	2007-2009

Industry group (according to "Gazette RS", No. 54/10)

Research and experimental development on natural sciences and engineering

Staff list within the unit

Name	Last name	Teaching/scientific title
Pavle	Andjus	Full professor
Lidija	Radenović	Full professor
Milena	Milošević	assistant professor
Danijela	Bataveljić	research associate

Name	Last name	Teaching/scientific title
Vera	Stamenković	research assistant
Stefan	Stamenković	research assistant
Miloš	Jovanović	research assistant
Andrej	Korenić	research assistant
Mina	Perić	yunior researcher
Dunja	Bijelić	yunior researcher
Dušica	Kočović	yunior researcher