Horizon 2020 Marie Sklodowska Curie Actions PROFILE FORM

Organization	Center for Laser Microscopy	Organization	CLM	
Name /	Institute for Physiology and Biochemistry	Short Name		
Department	Faculty of Biology			
	University of Belgrade			
	University Public Research Centre	│	`	
Organization Type	Large Scale Enterprise	□ National NGO		
	Small and Medium Scale Enterprise			
	Chemistry CHE	Sub-Fields / Keywo	rds:	
	Social and Human Sciences SOC	Biology		
	Economic Sciences ECO	Biomedicine		
	Information Science and Engineering ENG	Neuroscience		
Research Fields	Environment and Geosciences ENV			
	Mathematics MAT Physics PHY			
	The Centre for Laser Microscopy (CLM; http://clm.	bio.ba.ac.rs) was fou	nded in 2004 It is	
	situated at the premises of the Institute for Physiology & Biochemistry at the Faculty of			
University of Belgrade.			, 0,	
	The Centre consists of the preparatory laboratory and the imaging facility with a confocal (LSM 510 ZEISS) and a videomicroscope system (Visitron, Axiovert Zeiss and Evolve CCD). The Centre is also situated in the vicinity of the School's electron microscope and close to the			
Shart Description				
Short Description of the	Animal block.			
Organization /	Upon founding the strategic aims of the Centre were defined as the following :			
Department	 strengthening the research potential of the Faculty, especially of the Institute for Physiology & Biochemistry, 			
-	 strengthening the hands-on potential for education, 			
	 providing research and teaching positions for young colleagues, 			
	 development of innovative protocols in research, 			
	 increasing competitiveness for national and international projects, and 			
	 to increase the impact of national science. 			
	Previous projects: National project Biophysical neuro	profiling on experimen	tal models of CNS	
		onal projects "NEUROIMAGE" EU - FP6-INCO WBC		
	SSA3;Bilateral projects Pathogenesis mechanism of C9ORF72 repeat expansion in			
	evious Related amyotrophic lateral sclerosis and frontotemporal dementia; Molecular imaging on cells from animal model of amyotrofic lateral sclerosis – ALSIMAGE; The state of mitochondria in the pyramidal cells of hippocampus after an ischemic episode; The role of endosomes in excitation is not participation of amiotrophic lateral sclerosis.			
Previous Related				
Projects /	excitotoxic neural damage – the implications in pathogenesis of amiotrophic lateral sclerosis; Calcium stores in ALS neuroimmunology (IMUNOCALS); Neuroimmunology of ALS – a			
Research	biophysical approach; Multilateral projects (actions) Academic synapsing in the Balkans;Brain			
Experience	Extracellular Matrix in Health and Disease (ECMNet); Akademischer Neuaufbau Südosteuropa (Stabilitätspakt SOE); Neural Regeneration and Plasticity (NEREPLAS). Grants Verification of trace elements on the subcellular level in astrocytes isolated from a rat model of Amyotrophic Lateral Sclerosis; SOD1 protein aggregates in intact astrocytes – a cellular			
	model of Amyotrophic lateral sclerosis; ERAWEB – E	rasmus Mundus-Wes	tern Balkans;	
	"Centre of Excellence" grant.			

Short Description of the Project idea (if foreseeable)	 AUTOMATED FUNCTIONAL SCREENING OF IgGs FOR DIAGNOSTICS of NEURODEGENERATIVE DISEASES. Development of experimental cellular models and procedures with immunoglobulins (IgGs) from patient sera as <i>diagnostic and prognostic technologies</i> related to neurodegenerative diseases particularly amyotrophic lateral sclerosis (ALS), Alzheimer's disease, and multiple sclerosis. Defining mark-up characteristics of the standardized <i>in vitro</i> approach for <i>personalized diagnostic protocols</i> for neurodegenerative diseases Design of a <i>small-scale platform</i> based on automated fluorescence microscopy. 	
Related Call	- H2020-MSCA RISE Also: HEALTH (SCI) WIDESPREAD (Twinning)	
Contact Person	Pavle R. Andjus	
Position in the Organization	Prof. Pavle R. Andjus, PhD, head of Centre	
Tel	(+381 11) / 30 32 356	
Email	pandjus@bio.bg.ac.rs	