

Neurobiophysics Bachelor Studies Programme, 2026

Institution		Department/Laboratory	Themes
VU Life Sciences Center (LSC)	Institute of Biosciences	Department of Neurobiology and Biophysics	Skin Conductance Response to Emotional Stimuli: a Comparison Between Adolescents With and Without Chronic Pain Effects of NMDA Receptor Antagonists on Schizophrenia Biomarkers in Mice Cortical Rhythms and Their Alterations Following Systemic NMDA Receptor Antagonism Study of Emotion Regulation in Males: Assessing the Relationship Between Testosterone, Cortisol and EEG Parameters Influence of α-pinene on the Electrophysiological Parameters of Starry Stonewort (<i>Nitellopsis obtusa</i>) Cells Application and Optimization of the "miniML" Artificial Intelligence-Based Framework for Synaptic Activity Analysis in Mouse Hippocampal CA1 Neurons The Effect of Hydrogen Peroxide-Induced Oxidative Stress on Photosynthesis in the Algae <i>Nitellopsis obtusa</i> Glutamatergic Modulation of Auditory Steady-State Responses Effects of Ibuprofen on Pain and Behavior in a Rat CFA Model Alcohol Deprivation Effect on Rat Emotional State
	Institute of Biochemistry	Department of Molecular Cell Biology	Influence of Depression-Related Factors TNF- α and miR-16-5p on the Effects of Transcranial Magnetic Stimulation in the SH-SY5Y Cell Model
		Department of Bioelectrochemistry and Biospectroscopy	Morphology and Surface Properties of Protein Fibrillar Structures
		Department of Bioanalysis	Thermodynamic Studies of Folding of Small Monomeric Proteins Using the Wako–Saitô–Muñoz–Eaton (WSME) Model

	Institute of Biotechnology	Department of Protein - DNA Interactions	Correlation Between Kinesin Movement and Microtubule Dynamics
	EMBL Partnership Institute	Laboratory of Dr. Patrick Pausch	Type IV-A1 System Design Optimization for Single Molecule Tracking Experiments
VU Faculty of Medicine (MF)	Institute of Translational Health Research	Biomarker Research Laboratory	Effects of Chronic Psychological Stress on Fatty Acid Profile, Oxidative and Endocrine Response in Rats with Type Two Diabetic mellitus
		Centre for Applied Neuroscience	Evaluation of Hemodynamic Responses To Sounds Using fNIRS Assessing Eye Movements by Observing Moving Facial Parts
The Republican Vilnius Psychiatric Hospital		Department of Neurophysiological Research and Treatment Methods	Diagnostic Possibilities of Attention-Deficit/Hyperactivity Disorder Using EEG and Event-Related Potentials The Effect of Virtual Reality CBT-VR Program on EEG and Heart Rate Variability in Individuals with Depressive Disorder
Center for Physical Sciences and Technology		Department of Functional Materials and Electrinics	Application of Electroporation in Microfluidic Organ-on-a-Chip Systems and Evaluation of Its Effect Using the TEER Method Electrochemically Stimulated Release of Meloxicam from Polypyrrole Based Conductive Polymer Matrices
		Department of Molecular Compounds Physics	Adjustment of Conditions for Steady-State and Time-Resolved Fluorescence Measurements of the Diatom <i>Cyclotella meneghiniana</i> at Cryogenic Temperatures
Université libre de Bruxelles	Neuroscience Institute		Establishing New Advanced Imaging Approaches for <i>Caenorhabditis elegans</i> Nervous System Cell Components Across Scales