

## Neurobiophysics Bachelor Studies Programme, 2022

Institution	Department/Laboratory	Themes
<p style="text-align: center;"><b>VU Life Sciences Center</b></p>	<p style="text-align: center;"><b>Institute of Biosciences</b></p>	<p>Investigation of the effect of cannabinal on sleep in rats using electrocorticography</p> <p>The impact of sex and sex steroids on gaze parameters while viewing affective pictures</p> <p>Relationship between individual theta frequency and working memory</p> <p>Evaluation of the factors, that can influence mental rotation performance</p> <p>The electrophysiological brain response to a cue preceding an emotional stimulus: An evaluation of the influence of sex and sex hormones</p> <p>An event related potentials study of visual working memory: evaluation of the impact of sex and sex hormones</p> <p>Modeling of social disfunction in rats</p> <p>The evolution of electrophysiological properties of mouse hippocampal pyramidal neurons during development</p> <p>Bistability and hysteresis of aerobic and anaerobic bacterial interactions (modelling)</p> <p>Investigation of chlorophyll fluorescence of Characean <i>Nitellopsis obtusa</i> cells</p>
	<p style="text-align: center;"><b>Institute of Biotechnology</b></p>	<p>Department of Biothermodynamics and Drug Design</p> <p>Investigation of benzenesulfonamides, bearing modified glycine fragment, as human carbonic anhydrase inhibitors</p>
	<p style="text-align: center;"><b>Institute of Biochemistry</b></p>	<p>Department of Bioanalysis</p> <p>Development and characterization of biosensor for L-amino acid detection</p>

<b>Center for Physical Sciences and Technology</b>	<b>Department of Functional Materials and Electronics</b>	Bioelectrics Laboratory	Valuable compounds extraction from microalgae using cold plasma and pulsed electric fields Investigation of electroporation-assisted transformation and introduction of cryoprotectants into competent <i>Escherichia coli</i> cells
<b>VU Faculty of Physics</b>	<b>Institute of Theoretical Physics and Astronomy</b>		The identification of the most suitable exoplanets for the search for life by exploring their habitable zones
<b>Vilnius Psychiatric Hospital</b>			Study of interrelation of auditory evoked potentials LDAEP and P300 in healthy subjects
<b>Droplet Genomics company</b>			Single synaptosomes transcriptomics analysis