

### Biochemistry, Master Studies Programme, 2025

Institution		Department/Laboratory	Themes
<b>VU Life Sciences Center</b>	<b>Institute of Biochemistry</b>	Department of Molecular Microbiology and Biotechnology	Research on the Mechanism of Antiproliferative Activity of Water-Soluble Carboxyindirubins  Directed Modification of the Specific Activity of dCTP Deaminase and Cytidine Deaminases  Investigation of the DUS3B and 62Fuc Fucosidase Mutants
		Proteomics Centre	Application of Cell Co-cultures for the Investigation of CAR Protein Mechanisms
	<b>Institute of Biotechnology</b>	Department of Protein – DNA Interactions	Adaptation of Cas12m Proteins for the Development of Next-generation Genome Editing Tools  CRISPR-Cas-Based Fluorescent DNA Labelling and Imaging in Living Cells
		Department of Biological DNA Modification	<i>In vitro</i> Evolution of DNA Methyltransferase eM.SssI for Covalent DNA Labeling Technology  Investigation of DNA Methyltransferase DNMT1-Specific Activity in Cancer Cells
		Department of Bioinformatics	Prediction of Protein-Ligand Binding Affinity
	<b>EMBL Partnership Institute</b>	Laboratory of Dr. Stephen Knox Jones	Directed Evolution Studies of a Methylation-Sensitive Cas9 for Human Genome Editing
<b>National Cancer Institute</b>	<b>Research Departments</b>	Laboratory of Molecular Oncology	The Link Between Hypoxia and PARP Expression in Colorectal Cancer Cells Following Ionizing Radiation Exposure
<b>Thermo Fisher Scientific Baltics</b>			Studies on Next-generation Protein Stabilizers