

## Genetics, Master Studies Programme, 2024

Institution		Departments, Laboratories	Themes
VU Life Science Center	Institute of Biosciences	Department of Botany and Genetics // Plant Genetics Research Group	The Study of Genetic Variability in <i>Heracleum sosnowskyi</i> Mand. Populations Using SCoT Markers  Study of Plants of the Genus <i>Myriophyllum</i> Using Molecular Methods
		Department of Botany and Genetics // <i>Genotoxicological Research Group</i>	Evaluation of Genotoxic and Antigenotoxic Properties of Reishi ( <i>Ganoderma lingzhi</i> ) and Lion's Mane ( <i>Hericium erinaceus</i> ) Mushroom extracts  Analysis of <i>in vitro</i> Cytotoxicity and Genotoxicity of Polystyrene Nanoparticles in Human Hepatoma Cell Line HepG2
		Department of Botany and Genetics // Human Genome Research Group	Analysis of Epigenetic Heterogeneity in Renal Tumors  Regulation of Histone Methylation-Associated Genes in Prostate Cancer Cell Lines
	Institute of Biochemistry	Department of Molecular Cell Biology	Study of the Effect of Mesenchymal Stromal Cell Treatment for Restoring Ovarian Function
	Institute of Biotechnology	Department of Protein-Nucleic Acid Interaction Research	Epigenetic Clock Predictions Depend on the Time of Day  Functional Relationships Between Proteins of the BREX1 Antiviral System in Bacterial Cells
		Department of Biological DNA Modification	Synthetic Cytosine-5 Modification of Mouse Genome Fragments
	EMBL Partnership Institute	Group of Targeted Delivery of CRISPR-Cas System and Cell/Immunotherapies (Laboratory of Dr. Jonathan Arias)	Knock-In of Genetically Encoded EM Reporters in Human Cells through CRISPR-Cas9 Nuclease

<b>Nature Research Centre</b>		Laboratory of Molecular Ecology	<p>Genetic Diversity Comparison of Capercaillie Population Raised in Reserve with Capercaillie Population Living in the Białowieża Forest Using Microsatellite and Mitochondrial DNA Markers</p> <p>Confirmation of Atypical Sarcocystis Species in Lithuanian Domestic Sheep (<i>Ovis aries</i>)</p> <p>Genetic Characterization of Czech and Lithuanian Domesticated Common Carp Strains via Microsatellite Markers</p>
		Laboratory of Ecotoxicology	<p>Changes in multiple toxicity-related biomarkers after exposure to tire particles at different stages of rainbow trout (<i>Oncorhynchus mykiss</i>) ontogenesis</p>
<b>Thermo Fisher Scientific Baltics</b>			<p>SARS-CoV-2 Variant Identification Using Oligonucleotide Tethered 2',3'-dideoxynucleotides</p> <p>Thermophilic Helicases for Isothermal Amplification</p>