

## Genetics, Bachelor Studies Programme, 2024

Institution		Departments, Laboratories	Themes
VU Life Science Center	Institute of Biosciences	Department of Botany and Genetics ( <i>Plant Genetics Research Group</i> )	Genetic Diversity Study of the Genus <i>Sparganium</i> sp. in Four Lithuanian Lakes Assesment of Genetic Diversity in Plants of the Genus <i>Najas</i> Using SCoT Markers A Study of Alfalfa ( <i>Medicago sativa</i> L.) Populations Genetic Polymorphism
		Department of Botany and Genetics ( <i>Genotoxicological Research Group</i> )	Cytogenetic Analysis of Lion's Mane ( <i>Hericium erinaceus</i> Bull.) Fruiting Body Extract Cytogenetic Analysis of Reishi ( <i>Ganoderma lucidum</i> Karst) Fruiting Body Extract Construction of Calibration Curves for Biological Dosimetry
		Department of Botany and Genetics ( <i>Human Genome Research Group</i> )	Analysis of Potential Epigenetic Biomarkers for Renal Cancer Diagnosis and Prognosis Expression Analysis of Cuproptosis-Related Genes in Prostate Tumors Cell-free miRNA Profiling for Peri-implant Disease Diagnostics and Prognostics
		Department of Biochemistry and Molecular Biology	Research of Intracellular Localisation Determinants of <i>Saccharomyces cerevisiae</i> Totiviruses The Role of Capsular Polysaccharides in Opportunistic Pathogen <i>Acinetobacter baumannii</i> under Antimicrobial-Induced Stress
		Department of Microbiology and Biotechnology	Development of a Mutant SUP35::SUP35-MCHERRY-URA3 Variant of the Yeast <i>Saccharomyces cerevisiae</i> Protein Sup35

	<b>Institute of Biochemistry</b>	Department of Biological Models	Generation and Characterisation of Mouse Cardiac Fibroblasts with Downregulated Fhl1 Gene.
	<b>Institute of Biotechnology</b>	Department of Protein - DNA Interactions	Identification and Study of Potential Activators of Retron Ec67 Bacterial Defense System
		Deptment of Immunology	Investigation of NLRP3 Inflammasome Activation by Viral Proteins and Their Immune Complexes in Primary Mouse Microglia
		Department of Eukaryote Gene Engineering	The Use of Sssl Methyltransferase for Transcription Factor Analysis in Zebrafish The Development of Danio rerio Reproter Line and New Genome Editing Tools Analysis of Recombinant Protein Biosynthetic Efficiency in <i>Saccharomyces cerevisiae</i> After Disruption of the Protease Encoding PEP4 and YPS1 Genes Splicing Analysis of Arthropod-Infecting Orthomyxoviruses
<b>Nature Research Centre</b>	Laboratory of Molecular Ecology	The Intraspecific Genetic Diversity of Eurasian Woodcock ( <i>Scolopax rusticola</i> ) Using Mitochondrial DNA Control Region Sequences Genetic diversity of Sarcocystis species distributed by birds of prey in Spain	
	Laboratory of Plant Pathology	Determination of Mating Type (MAT) and Genetic Diversity in Fungi of the Genus Diaporthe	
<b>National Cancer Institute</b>	Laboratory of Genetic Diagnostic	Methylation Profiling of Homeotic and Chromatin Remodeling Genes in Cancerous Ovarian Tissues Quantification of Expression Changes in the NOTCH Signaling Pathway Components in Ovarian Cancer Patients' Tissues	
<b>Thermo Fisher Scientific Baltics</b>			Construction and Characterization of a Chimeric M-MuLV Reverse Transcriptase