

Molecular Biology, Master Studies Programme, 2026

Institution		Department/Laboratory	Themes
VU Life Sciences Center	Institute of Biosciences	Department of Biochemistry and Molecular Biology	Investigation of the Respiratory Microbiome in Tuberculosis Patients in Lithuania The Role of Autophagy in Colorectal Cancer Cell Chemoresistance and the Regulation of Surface Exposure of B7 Family Proteins The Role of the Polysaccharide Capsule of <i>Acinetobacter baumannii</i> in Inducing Macrophage Apoptosis and Pyroptosis Study of Innate Resistance to Cisplatin in Human Colorectal Cancer Cells Investigation of STING Functions in Human Colorectal Cancer Cells with Acquired Resistance to Chemotherapeutic Agents
		Department of Microbiology and Biotechnology	Virulence and Molecular Genotyping of Clinical <i>Klebsiella Pneumoniae</i> and <i>Pseudomonas aeruginosa</i> Isolates
	Institute of Biochemistry	Proteomics Center	Development and Characterization of a Cellular Senescence System <i>in vitro</i>
		Department of Molecular Cell Biology	Investigation of Infertility-related Molecular Factors Through the Analysis of Personalized Human Endometrial Organoids
	Institute of Biotechnology	Department of Protein – DNA Interactions	Functional Analysis of the QatABCD Bacterial Defense System Construction and Application of Bacteriophage Genomic DNA Fragment Libraries
		Department of Biological DNA Modification	Tatton-Brown-Rahman Syndrome-causing DNMT3A Ser775Tyr Variant Interaction with DNA
		Department of Eukaryote Gene Engineering	Synthesis of the Recombinant Common Mugwort Allergen Art v 3 in Yeast and Characterization of Its Antigenicity Evaluation of Precise Genome Editing Efficiency in Reporter Danio rerio Lines

			A Novel Polyomavirus with Non-canonical Genome Organization: Analysis of its Diversity and the Capacity of its Structural Proteins to Assemble into Virus-like Particles
		Department of Immunology	Development of Methods for the Detection of Zoonotic Hepatitis E Virus Investigation of Extracellular SARS-CoV-2 Nucleocapsid Protein Impact on Human Lung Epithelial, Fibroblast, and Macrophage Cells