

Molecular Biotechnology, Master Studies Programme, 2026

Institution		Department/Laboratory	Themes
VU Life Sciences Center	Institute of Biosciences	Department of Biochemistry and Molecular Biology	Structural Integrity of TdPV1 Virus-Like Particles and Application for Nanodelivery
		Department of Zoology	Molecular Detection of Pathogens in Ticks from Urban Areas
	Institute of Biochemistry	The Department of Biological Models	Isolation of Extracellular Vesicles from <i>Lactocaseibacillus paracasei</i> and Assessment of Their Ability to Maintain Barrier Integrity in Cytokine-Exposed Caco-2 Cells
	Institute of Biotechnology	Sector of Amyloid Research	Study of Heterotypic Droplet Formation by Alpha-Synuclein and Prion Proteins during Liquid-Liquid Phase Separation
		DNA motors laboratory	Molecular Dynamics Simulations of Helicase-DNA Interactions
		The Department of Eukaryote Gene Engineering	Development of Hypoallergenic Variants of Art v 3 and Their Potential Applications in Allergen-Specific Immunotherapy
	EMBL Partnership Institute	Laboratory of Dr. Giancarlo Russo	Multi-omics Analysis of the Long-term Coevolution of <i>Streptococcus thermophilus</i> and Its Lytic Phage 2972
Center for Physical Sciences and Technology		Department of Functional Materials and Electronics	Photoactive Biopolymer–C60 Nanocomposite Films for Biofouling Resistance
		Department of Molecular Compound Physics	miRNA Detection Using Surface-Enhanced Raman Spectroscopy (SERS)
		Department of Nanotechnology	Polypyrrole Based MIP Sensor Platform for Detection of Macromolecules

Thermo Fisher Scientific Baltics			Nanobody Affinity Optimization Through Site-Directed Mutagenesis
			Recombinant Albumins for Molecular Biology Applications
LLC Caszyme			Efficiency Improvement of Genome Editing Tools
Genie Biotech EU			Anti-HER2 Affibody Drug Conjugates for Therapeutic Purposes