

Molecular Biology Master Studies Programme, 2021

Institution	Department/Laboratory	Themes
Life Sciences Center	Institute of Biosciences	Investigation of Soil Origin Chryseobacterium spp. β -lactamases Cell Death Pathway Research in Chemoresistant Colorectal Cancer Cells Investigation of the Impact of <i>Acinetobacter baumannii</i> Regulatory System BfmRS on the Type VI Secretion System
		Department of Botany and Genetics Analysis of Potential Epigenetic Biomarkers for Non-Invasive Renal Cancer Diagnosis and Monitoring Disease Progression
	Institute of Biochemistry	Department of Bioelektrochemistry and Biospectroscopy Phospholipid Composition Effects on Membrane Damage Inflicted by Alpha Hemolysin from <i>Staphylococcus aureus</i>
		Department of Molecular Cell Biology Ex Vivo Studies of Endometrium-Derived Stem Cells
		Department of Molecular Microbiology and Biotechnology Analysis of Physiochemical and Genetic Properties of Newly Isolated Bacteriophages from Myoviridae Family
		Proteomics Centre Investigation of p53 Isoforms Influence on Cell Death Induction using CRISPR/Cas9 Gene Knockout Technology in Human Colorectal Carcinoma Cells
	Institute of Biotechnology	Department of Eukaryote Gene Engineering Synthesis of Recombinant Allergen Components Art v 3, Bet v 4 and Mal d 3 in <i>E. coli</i> and Evaluation of their Antigenicity
		Department of Immunology and Cell Biology Investigation of NLRP3 Inflammasome Activation by Viral Oligomeric Proteins in Macrophage Model Systems The Influence of Hypoxia on Neurodegenerative Disease Related Gene Alternative Pre-mRNA Splicing
		Sector of Mikrotechnologies Single-cell RNA-Seq of Human Kidney: Comparison of Healthy and Tumor Tissues
	Centre of Innovative Medicine	Department of Stem Cell Biology

Thermo Fisher Scientific Baltics			Studies of Polymerases Capability to Incorporate Modified Nucleotides Engineering of Recombinant anti CD3, CD19 and CD28 Antibodies Characteristics of T7 RNA Polymerase Mutants
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