

Molecular Biology Bachelor Studies Programme, 2021

Institution	Department/Laboratory	Themes
Life Sciences Center	Institute of Biosciences	Department of Biochemistry and Molecular Biology Analysis of Yeast LA-1 Virus Recombinant Protein Expression Effect on Native Virus Maintenance
		The Influence of Intensive Fish Farming on the Prevalence of Antibiotic Resistance Genes in Fish Bacteria and Aquatic Sediments Expression of Serpin B5 in Chemoresistant Human Colorectal Carcinoma Cells
		Department of Neurobiology and Biophysics Purification and Characterization of Recombinant C2 Domain Fused with SNAP or mKate tags
	Institute of Biochemistry	Department of Molecular Cell Biology Neural Differentiation and Neural Tissue Specific Marker Expression of Human Amniotic Fluid-Derived Stem Cells Grown in 2D and 3D Cultures
		Department of Molecular Microbiology and Biotechnology Investigation of YqfB Amidohydrolase and it's Analogues Development and Characterization of Vectors Encoding Bifunctional Deaminases
		Department of Biological Models Markers of Neuroinflammation Provoked by Obesity
	Institute of Biotechnology	Department of Bioinformatics Analysis of Protein Oligomeric State with Computer Methods
		Department of Biothermodynamics and Drug Design Effect of Flavone Oxidation Products on Insulin Amyloid-like Fibril Formation
		Department of Eukaryote Gene Engineering Hazelnut (<i>Corylus avellana</i>) Allergen Cor a 2 and Cor a 9: Expression, Purification and Analysis Recombinant LwaCas13a and PspCas13b Protein Expression and ADE2 Gene Knockdown in Yeast <i>Saccharomyces cerevisiae</i>

		Department of Immunology and Cell Biology	Biosynthesis of Dog ant Timothy Grass Recombinant Allergens Fused with Maltose Binding Protein (MBP) and Study of their Antigenic Properties
Nature Research Centre	Institute of Ecology	Laboratory of Molecular Ecology	An Effect of Electromagnetic Field on Reproduction of <i>D.melanogaster</i> and Generation of Point Mutations in Idh gene and Y chromosome Genetic Diversity of Common Carp <i>Cyprinus Carpio</i> L. Strains Found in Lithuania
		Laboratory of Genotoxicology	Investigations of Biological Effects of Graphene Oxide Nanostructures on Brown trout (<i>Salmo trutta</i>)
National Cancer Institute		Laboratory of Molecular Oncology	Epigenetic Markers in Colorectal Cancer
		Laboratory of Genetic Diagnostic	Identification of Novel Markers in Rheumatoid Arthritis Through Analysis of DNA Methylation and microRNA Expression
		Biobank	Research on New Molecular Markers in Ovarian Tissue after Cryopreservation
Center for Physical Sciences and Technology	Department of Functional Materials and Electronics	Bioelectric Phenomena Laboratory	FRET Method Based for Protein - Protein Interaction Analysis in Mammalian Cells
	Department of Molecular Compounds Physics	Biophysical Research Laboratory	Fabrication of Molecular Tools for Biotinylated Proteins
Centre of Innovative Medicine	Department of Regenerative Medicine		Effect of Vitamin D on the Expression of Surface Markers in Fibroblasts from Inflammatory Synovium