

Microbiology Bachelor Studies Programme, 2026

Institution		Department/Laboratory	Themes
Life Sciences Center	Institute of Biosciences	Department of Microbiology and Biotechnology	Evaluation of the Antimicrobial Properties of Active Ingredients in Toothpaste Prototypes
			Screening of Soil Microbial Strains for Antibacterial Activity
			Investigation of the Ability of <i>Geobacillus</i> sp. 95 Strain Lipolytic Enzymes to Catalyze the Hydrolysis Reaction of Bis(2-hydroxyethyl) terephthalate
	Institute of Biosciences	Department of Microbiology and Biotechnology	Biofilm Formation and AI-2–like Quorum Sensing Dynamics in <i>Alicyclobacillus acidoterrestris</i> DSM 2498 and DSM 3922T
			Study of <i>Candida guilliermondii</i> Resistance to Silver Nanoparticles
			The Effect of Small Heat Shock Proteins Hsp12 and Hsp26 on Viability and Stress Response in Synthetic Wine Medium
	Institute of Biosciences	Department of Microbiology and Biotechnology	Antimicrobial Photoinactivation and AI-2 Based Quorum Sensing Potential Studies in Thermophilic <i>Geobacillus stearothermophilus</i> DSM5934
			Study of <i>Staphylococcus aureus</i> Resistance to Silver Nanoparticles
			Search for Polycaprolactone Degrading Bacteria in Samples from a Waste Sorting Plant
Life Sciences Center	Institute of Biosciences	Department of Biochemistry and Molecular Biology	Effect of Blue Light and Gentamicin on Clinical Isolates of <i>Acinetobacter baumannii</i>
		Center of Ecology and Environment	Biological Effects of Ibuprofen on Model Microorganisms Used in Ecotoxicological Tests
	Institute of Biochemistry	Department of Bioanalysis	The Effect of Inorganic Salts and Surfactants on the Deaggregation and Restoration of Bioactivity of Glucose Oxidase
		Department of Bioanalysis	Modeling the Thermodynamics of Protein Folding Using Gō-like Models
		Department of Bioelectrochemistry and Biospectroscopy	Study of the Effect of Melittin Protein on Lipid Membranes
		Department of Biological Models	<i>In vitro</i> and <i>In silico</i> anti-Alzheimer's Potentials of Kefir-fermented Hemp Leaves
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		Department of Molecular Microbiology and Biotechnology	Modification of the gp041 Protein of Bacteriophage vB_KleM-RaK2 and Investigation of the Newly Formed Structures
	Institute of Biotechnology	Department of Eukaryote Gene Engineering	Genotype-Phenotype Association Analysis Based on Whole Genome Sequencing of <i>Achromobacter</i> Genus The Consequences of Extinct Viruses Returning to Human Populations
	EMBL Partnership Institute	Laboratory of Dr. Stephen Knox Jones	Investigating if DNA:RNA Mismatching at the Cleavage Site Disrupts SpCas9 Cleavage in a Topology-dependent Manner
VU Faculty of Physics	Institute of Photonics and Nanotechnology	Lighting Research Group	Evaluation of Photodynamic Inactivation Efficiency Against <i>Xanthomonas vesicatoria</i> Using Riboflavin and Magnesium Chlorophyllin Mixture
State Scientific Research Institute Nature Research Centre		Laboratory of Algology and Microbial Ecology	Changes in Nitrogen Fixation and Growth of Native and Non-native Cyanobacteria of the Order Nostocales Under Climate Change Conditions
		Laboratory of Plant Pathology	Isolation of Entomopathogenic Fungi from Different Soil Types Molecular Identification and Biochemical Properties of Oak (<i>Quercus</i> spp.) Fungi
		Laboratory of Biodeterioration Research	The Role of Fungi of the Genus <i>Trichoderma</i> in the Destruction of Wood Waste Micromycetes Colonizing Works of Art and Studies of Their Physiological Properties
		Laboratory of Ecotoxicology	Assessment of the Ecotoxicological Effects of Rare Earth Elements (REE) Using Acute and Long-Term (Multigenerational) Studies of Crustaceans Ecotoxicological Effects and Bioaccumulation of Rare Earth Elements in Freshwater Algae
		Laboratory of Genetics	The Effects of Essential Oils on Bacteria and Their Application to Improving Bee Health
		P. B. Šivickis Laboratory of Parasitology	Haemosporidian Infections in Urban Birds of Lithuania
Centre for Innovative Medicine	Research Departments	Department of Regenerative Medicine	<i>In vitro</i> Cytotoxicity of Aerosol Particles from Solid Fuel Combustion
Center for Physical Sciences and Technology		Department of Functional Materials and Electronics	Synthesis and Study of Natural Deep Eutectic Solvents (NADES) Investigation of Bacterial Adhesion on PLA Surface

			The Effect of Bee Propolis Against Yeast and Bacterial Biofilm
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