



83rd International Scientific
Conference of the
University of Latvia **2025**

**Innovative and Applied Research
in Biology**



FACULTY OF
MEDICINE AND
LIFE SCIENCES

Thursday, 6 March 2025, 10.00 AM
Riga, Jelgavas street 1, room 702
and Zoom platform

Program

9:30–10:00		Registration
Chair: Prof., Dr. hab. biol. Īzaks Rašals		
10.00–10.05	Arturs Stalažs Institute of Biology, Faculty of Medicine and Life Sciences (FMLS), University of Latvia	Opening
O1 10.05–10.25	Algimantas Paulauskas Vytautas Magnus University	Application of molecular methods in zoology in Baltic countries
O2 10.25–10.40	Jana Radzijeuskaja Vytautas Magnus University	Detection and phylogenetic characterization of tick-borne encephalitis virus in Lithuania
O3 10.40–10.55	Asta Aleksandravičienė Vytautas Magnus University	Genetic variability of American mink (<i>Neovison vison</i>) in Lithuania
O4 10.55–11.10	Dalius Butkauskas Nature Research Centre	3D biotextile manufacturing and assessment of protective properties
11.10–11.45	Coffee break	
Chair: Prof., Dr. hab. biol. Dalius Butkauskas		
O5 11.45–12.00	Ieva Ignatavičienė Nature Research Centre	Impact of amber nanoparticles and its derivatives on <i>Lemna minor</i> clone affected by low frequency electromagnetic radiation (50 Hz)
O6 12.00–12.15	Žaneta Maželienė Faculty of Medicine, Kauno Kolegija Higher Education Institution	Antimicrobial efficacy of different <i>Rosa rugosa</i> parts extracted using aqueous and ethanolic extract

O7 12.15–12.30	Laura Āboliņa Institute of Biology, FMLS, University of Latvia	Shade treatment effect on chlorophyll content and growth of cloudberry <i>Rubus chamaemorus</i>
O8 12.30–12.45	Irina Sivicka Latvia University of Life Sciences and Technologies	Growth and yield performance of carrot (<i>Daucus carota</i> L.) influenced by treatments with microalgae extracts
O9 12.45–13.00	Ktristaps Neiberts Institute of Biology, FMLS, University of Latvia	Utilizing cheese whey for mixotrophic cultivation of microalgae <i>Graesiella emersonii</i> : Improving lipid and Omega-3 polyunsaturated fatty acid content in poultry diets
13:00–14:00	Lunchbreak*	
Chair:	Prof., Dr. hab. biol. Īzaks Rašals	
14:00–15:25	Short poster presentations (3 min), questions (2 min) https://ej.uz/pcuq	
P1	Laura Nareckaitė Vytautas Magnus University	Application of molecular biology methods for the detection and genotyping of <i>Babesia canis</i>
P2	Saulius Bernotas Research Institute of Natural and Technological Sciences, VMU	Molecular identification of <i>Borrelia burgdorferi sensu lato</i> in ticks in Kaunas city, Lithuania
P3	Martynas Jonkus Vytautas Magnus University	Molecular screening for tick-borne encephalitis virus in ticks from city environments
P4	Evelina Genevičiene Vytautas Magnus University	The role of anthropogenic pressures in shaping the genetic of red deer (<i>Cervus elaphus</i>)
P5	Donata Grikšaitė Nature Research Centre	Development of cost-effective molecular method to discriminate different <i>Listeria monocytogenes</i> strains in food processing sector
P6	Paulina Maceinaitė Vytautas Magnus University	Genetic diversity of <i>Bartonella</i> spp. in Lithuanian bats based on gltA gene sequences
P7	Justina Dagytė Vytautas Magnus University	Application of Enzyme-Linked Immunosorbent Assay for the detection of antibodies against measles virus
P8	Ugnė Medikaitė Vytautas Magnus University	Application of molecular methods for the detection of Lyme disease agents
P9	Ramunė Tamošiūnaitė Nature Research Centre	Preliminary results on muscle tissues parasites of mustelids in Lithuania
P10	Eglė Rudaitytė-Lukošienė Nature Research Centre	<i>Sarcocystis</i> species richness in the diaphragm and myocardium of alpine ibex (<i>Capra ibex</i>)

P11	Dovilē Laisvūnē Bagdonaitē Nature Research Centre	Genetic characterisation of <i>Sarcocystis</i> cysts isolated from muscles and brain of voles from Lithuania
P12	Evelina Slavnova Institute of Biology, FMLS, University of Latvia	Optimization and challenges in DNA extraction from <i>Tetrao urogallus</i> feathers
P13	Aija Rebāne Institute of Agriculture, LBTU	Breeding of tetraploid red clover in Latvia
P14	Dace Grauda Institute of Biology, FMLS, University of Latvia	Assessment of antimicrobial properties of 3D biotextile with incorporated nanoparticles.
P15	Irina Sivicka Latvia University of Life Sciences and Technologies	Evaluation of rust and powdery mildew development in <i>Mentha ×piperita</i> and <i>Mentha spicata</i> under <i>ex situ</i> collection
P16	Tomass Tumpelis Institute of Biology, FMLS, University of Latvia	Phenols and flavonoids in microalgal extract for agricultural biostimulants. A comparative study of extraction methods
P17	Līga Jankevica Institute of Biology, FMLS, University of Latvia	Research on insect baculoviruses in Latvia: past and future
15:25 – 16:00	Coffee break	
Chair: Prof., Dr. hab. biol. Dalius Butkauskas		
O10 16:00 – 16:15	Zoya Tsybouskaya Vytautas Magnus University	The impact of pyrethroid insecticides on non-target Coleoptera
O11 16:15 – 16:30	Elmīra Boikova Institute of Biology, FMLS, University of Latvia	The nature reserve of the lake Burtnieku floodplaine meadows
O12 16:30 – 16:45	Oskars Keišs Institute of Biology, FMLS, University of Latvia	Common starling (<i>Sturnus vulgaris</i>)—as a species for citizen science and fundamental research
16:45 - 17:30	Discussions & Conclusions	

*Lunch is not provided. There is a cafe on the 1st floor where you can have a hot lunch.