



82nd International Scientific
Conference of the
University of Latvia 2024

Innovative and Applied Research in
Biology

Inovātīvie un Pielietojamie Pētījumi
Bioloģijā



LATVIJAS UNIVERSITĀTE
**BIOLOĢIJAS
INSTITŪTS**

Friday, 8 March 2024, 10.00 AM, ZOOM
Jelgavas street 1, 702 .

Programma / Programme

10.00–10.05	Līga Jankevica Institute of Biology, University of Latvia	Opening Atklāšana
Vadītājs/Chair: Prof. Dr. hab. biol. Īzaks Rašals		
O1 10.05–10.35	Algimantas Paulauskas Vytautas Magnus University	Colaboration between geneticists from the Baltic countries in Conservation genetics and Molecular Ecology
O2 10.35–10.50	Ieva Ignatavičienē Nature Research Centre	Genetic diversity and variation of ten duckweed (<i>L. minor</i>) populations based on ascorbate peroxidase gene and microsatellite markers
O3 10.50–11.05	Dace Grauda LU Institute of Biology	Impact of nanoparticles and microparticles (succinite, Ag, SiO ₂ , Al ₂ O ₃) on plant gametic cells
O4 11.05–11.20	Gabija Steigvilaitė Kaunas University of Technology	Sustainable processing of secondary plant-based raw materials using biological methods
O5 11.20–11.35	Laura Āboliņa LU Institute of Biology	Cloudberry cultivation in temperate climates: insights from blueberry, cranberry, and lingonberry studies in peat fields
11.35–12.00	Coffee break / Kafijas pauze	
Vadītājs/Chair: Dr. biol. Prof. Dalius Butkauskas		
O6 12.00–12.15	Rolands Krams Daugavpils University	Permanent feeders decrease the survival of wintering great tits (<i>Parus major</i> Linnaeus, 1758)
O7 12.15–12.30	Antra Stīpniece Lab. of Ornithology, LU Institute of Biology	Marking Greylag Goose <i>Anser anser</i> with colour neckbands in Latvia - the first results.
O8 12.30–12.45	Oskars Keišs Lab. of Ornithology, LU Institute of Biology	Monitoring of autumn migration of birds at Pape, Latvia 1992–2023

O9 12.45–13.00	Viesturs Vīgants Lab. of Ornithology, LU Institute of Biology	A novel approach for tracing migration patterns of a short-distance migrant, the common starling <i>Sturnus vulgaris</i>
O10 13.00–13.15	Evelina Juozaitytė- Ngugu Nature Research Centre	Overview of Sarcocystis species parasitizing birds
13:15 – 14:15	Lunchbreak / Pusdienu pārtraukums	
Vadītājs/Chair:	Dr. hab. biol. Īzaks Rašals	
14:15 - 15:00	Stenda referātu prezentācijas (2 min), jautājumi (1 min) Short poster presentations (2 min), Questions (1 min)	
P1	Gabriela Liubartaitė Nature Research Centre	Microsatellite Genotyping of <i>Cyprinus carpio</i> Czech and Lithuanian Strains
P2	Evelina Maziliauskaitė Nature Research Centre	Molecular Investigation of Sarcocystis spp. in Invasive Raccoon (<i>Procyon lotor</i>) from Lithuania
P3	Viktorija Levinger Nature Research Centre	Intraspecific genetic variability of Cloudberry (<i>Rubus chamaemorus</i>) in the Eastern Baltic region based on microsatellite data analysis
P4	Nadežda Krasņika LU Institute of Biology	Optimization of oat (<i>Avena sativa</i> L.) embryo culture method for breeding
P5	Edīte Juceviča Institute of Biology, LU; University of Life Science and Technologies	Preliminary results of soil mesofauna characterized by QBS index in the background of restoration success of urban grasslands in Riga city, Latvia
P6	Irina Sivicka Latvia University of Life Sciences and Technologies	Effect of treatments with microalgae extracts to total chlorophyll content in tomato leaves
P7	Kristaps Neiberts LU Institute of Biology	Mixotrophic cultivation of microalgae in whey medium for poultry diet supplementation with microalgal biomass
P8	Svetlana Vasiljeva, LU Institute of Biology	Optimization of the production of sodium alginate derivatives
P9	Abbas Mirshafiey Int.Reviewer/FISM (Italian Multiple Sclerosis Society Foundation)	The anti-inflammatory effect of Mannuronic acid (M2000) in experimental model of glomerulosclerosis
P10	Abbas Mirshafiey Int.Reviewer/FISM	Anti-tumoral effects of Guluronic acid (G2013), as a novel safe natural agent on animal model of breast cancer
P11	Abbas Mirshafiey Int.Reviewer/FISM	Inhibitory property of Mannuronic acid on angiogenesis phenomenon using experimental model
P12	Kārlis Žagata LU Institute of Biology	Different model systems to evaluate EMR impact
15:00-15:30	Coffee / Kafijas pauze	

Vadītājs/Chair: Dr. biol. Prof. Dalius Butkauskas

O11 15:30- 15:45	Ilva Trapiņa LU Institute of Biology	Report on the project's second year "Development of an innovative approach to identify biological determinants involved in the between-animal variation in feed efficiency in sheep farming."
O12 15:45 - 16:00	Samanta Pļaviņa LU Institute of Biology	The feed efficiency of intensive fattened lambs in Latvian sheep breeds is linked to genetic variations of the MSTN gene.
O13 16:00 - 16:15	Tatjana Grigorjeva Daugavpils University	Impact of serotonin concentration changes on the laterality of fruit flies (<i>Drosophila melanogaster</i> Meigen, 1830)
O14 16:15 - 16:30	Ineta Salmane LU Institute of Biology	Fauna of the predatory Mesostigmata mites (Acari, Parasitiformes) in the urban grasslands of Rīga city
16:30 -17 :00	Noslēgums, diskusijas Conclusions, discussions	