



80th International Scientific
Conference of the
University of Latvia 2022



LATVIJAS UNIVERSITĀTE
**BIOLOĢIJAS
INSTITŪTS**

Inovatīvie un Pielietojamie Pētījumi Bioloģijā

Innovative and Applied Research in Biology

Ceturtdien, 2022. gada 3. februārī. 10:00, ZOOM

Thursday, 3 February 2022, 10.00 AM, ZOOM

Programma / Programme

Vadītājs/Chair: Dr. hab. biol. Dalius BUTKAUSKAS

10.00–10.05	Līga Jankevica Institute of Biology, University of Latvia	Atklāšana Opening
O1 10.05–10.25	Adomas Ragauskas, Nature Research Centre	Genetic diversity of common carp <i>Cyprinus carpio</i> L. strains maintained in Lithuania
O2 10.25–10.45	Tautvilē Šukytė, Nature Research Centre	Preliminary results of <i>Sarcocystis spp.</i> infection in birds of prey in Lithuania
O3 10.45–11:00	Ilva Trapiņa, Institute of Biology, University of Latvia (LU)	Development of an innovative approach to identify biological determinants involved in the between-animal variation in feed efficiency in sheep farming
O4 11:00–11:15	Ronalds Krams, University of Daugavpils	Reproductive success of the great tit (<i>Parus major</i> Linnaeus, 1758) under ecological trap conditions
O5 11:15–11:00	Elza Zacmane, Institute of Biology, LU	Do ixodid ticks affect body condition of migratory birds

Posters 1 **Vadītājs/Chair: Dr. hab. biol. Dalius BUTKAUSKAS**

11:30 - 11:40	Stenda referātu prezentācijas (2 min) Short poster presentations(2 min)	
P1	Paulina Amšiejūtė National Food and Veterinary Risk Assessment Institute	Molecular Typing of <i>Paenibacillus</i> larvae Isolates from Lithuanian apiaries by using VNTR allele sizing method
P2	Alina Marandykina-Prakienė, Nature Research Centre	Molecular identification of protozoan <i>Sarcocystis</i> species in sheep from Lithuania
P3	Svetlana Vasiljeva, Institute of Biology, LU	The role of natural dietary antioxidants in animals under oxidative stress
P4	Edīte Juceviča Institute of Biology, LU; University of Life Science and Tech	Impact of light source on distribution of greenhouse whiteflies <i>Trialeurodes spp.</i> (Hemiptera: Aleyrodidae) on tomatoes in greenhouses
P5	Ance Priedniece, Institute of Biology, LU	Breeding time changes of the Pied Flycatcher in Latvia since 1950s,
11.40–12.00	Virtuālā kafijas pauze, diskusijas, posterī Coffee break, discussions, posters	

Vadītājs/Chair: Prof. Īzaks Rašals		
O6 12:00–12:20	Elmīra Boikova, Institute of Biology, LU	Natura 2000 excellence values and management challenges in the protected landscape area “Augšdaugava”
O7 12:20–12:35	Liene Auniņa, Institute of Biology, LU	Plant communities with <i>Rhynchospora fusca</i> (L.) W. Aiton in Latvia
O8 12:35–12:50	Voldemārs Spungīs, Institute of Biology, LU	Investigation of occurrence of particularly protected whorl snails <i>Vertigo spp.</i> in habitats of EU importance
O9 12:40–13:00	Ieva Grudzinska, Institute of Biology, LU	Diatom-based assessment of the ecological status of the Venta River, Kuldīga
13:00–13:30	Virtuālā kafijas pauze, diskusijas, posterī Coffee break, discussions, posters	
Vadītājs/Chair: Dr. biol. Zigmunds Orlovskis		
O10 13.30–13.45	Ilze Borbale, Institute of Biology, LU	Bacterial cellulose production on apple juice
O11 13:45–14:00	Kristaps Neiberts, Institute of Biology, LU	Bacterial cellulose production on whey medium
O12 14:00–14:15	Valērija Križanovska, Latvian Institute of Organic Synthesis	Evaluation of phytochemical composition and cytotoxic activity of wild grown and cultivated <i>Daphne mezereum</i> extracts: potential of cultivation of the species
O13 14:15–14:30	Dmitry Babarikyn, Institute of Innovative Biomedical Technology Ltd	Sugar-free fractionated red beetroot juice biological activity evaluation
Posters 2 Vadītājs/Chair: Dr. biol. Zigmunds Orlovskis		
14:30–14:45	Stenda referātu prezentācijas (2 min) Short poster presentations (2 min)	
P6	Sergejs Koļesovs, Institute of Biology, LU	Microalgae originated biostimulants as a sustainable alternative for agriculture
P7	Kārlis Krecers Institute of Biology, LU	Growth systems for microalgae biomass production
P8	Antons Kolodinskis, Institute of Biology, LU	Health effects of low frequencies electromagnetic fields on children
P9	Andra Miķelsone Institute of Biology, LU	Study of the antioxidants and nutrients in cloudberry (<i>Rubus chamaemorus</i> L.) in Latvia
14:45 -15:00	Virtuālā kafijas pauze, diskusijas, posterī Coffee break, discussions, posters	
Vadītājs/Chair: Prof. Īzaks Rašals		
O14 15:00 - 15:15	Ieva Ignatavičienē, Nature Research Centre	Effects of Low Frequency Electromagnetic Radiation on <i>L. minor</i> growth parameters and generation of point mutations at GPx, CAT and APx genes
O15 15:15 - 15:30	Kārlis Žagata, Institute of Biology, LU	New tool suitable for genetic studies – axenic <i>Lemna minor</i> line

O16 15:30 - 15:45	Laura Āboliņa, Institute of Biology, LU	Influence of peat substrate composition on indicators of physiological vitality of cloudberry <i>Rubus chamaemorus</i> during the rooting period
O17 15:45 - 16:00	Gunta Čekstere, Institute of Biology, LU	Nemoralisation of coniferous stands in Latvia
16:00 -16 -	Noslēgums, diskusijas Conclusions, discussions	