

**Daugavpils University
Institute of Life Sciences and Technology**

**9th INTERNATIONAL CONFERENCE ON
BIODIVERSITY RESEARCH**

Daugavpils, 26 – 28 April, 2017



PROGRAMME

**Daugavpils
2017**

Daugavpils University
Institute of Life Sciences and Technology

**9th INTERNATIONAL CONFERENCE ON
BIODIVERSITY RESEARCH**

Daugavpils, 26 – 28 April, 2017

INTERNATIONAL SCIENTIFIC COMMITTEE:

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Institute of Life Sciences and Technology, Daugavpils University, Daugavpils, Latvia

Dr., Prof. Inese Kokina Vice chairman of the Conference
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Dr. Oleg Borodin Bioresource Research Center of Belarus National Academy of Sciences, Minsk, Belarus

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Dr. Dace Grauda University of Latvia, Rīga, Latvia

Dr. Anda Ikauniece Latvian Institute of Aquatic Ecology, Riga, Latvia

Dr. Lucija Šerić Jelaska University of Zagreb, Zagreb, Croatia

Dr. Muza Kirjušina Institute of Life Sciences and Technology, Daugavpils University, Daugavpils, Latvia

Dr. Alexey Shavrin Institute of Life Sciences and Technology, Daugavpils University, Daugavpils, Latvia

Dr. Muhammadjon Shoev, Tajik National University, Dushanbe, Tajikistan

Dr. Juris Soms Daugavpils University, Daugavpils, Latvia

Dr. Uldis Valainis Institute of Life Sciences and Technology, Daugavpils University, Daugavpils, Latvia

Dr. Stephen Venn, University of Helsinki, Helsinki, Finland

Dr. Rik Jan Vermeulen Willem Beijerinck Biological Station, Loon, The Netherlands

PROGRAMME

26 April, 2017

10:00 – 12:15 REGISTRATION (Daugavpils University, Parades Str. 1a, hall)

12:15 – 12:30 OPENING (Daugavpils University, Parades Str. 1a, hall)

12:30 – 13:50 PLENARY SESSION /Chairman: Prof. Isaak Rashal/
(Daugavpils University, Parades Str. 1a, Room 130)

12:30 – 13:10 Cultural ecosystem services from belowground

Jurga Motiejūnaitė / Institute of Botany, Nature Research Centre, Lithuania

Mark Bakker / Bordeaux Sciences Agro, France

Isabella Børja / Norwegian Institute of Bioeconomy Research, Norway

Ivano Brunner / Swiss Federal Institute for Forest, Snow and Landscape Research
WSL, Switzerland

Tanja Mrak / Slovenian Forestry Institute, Slovenia

Edda Oddsdóttir, Brynhildur Bjarnadóttir / University of Akureyri, Borgir v
Noroursloo, Iceland

13:10 – 13:50 Possibilities and limitations of ecophysiological studies of rare and endangered wild
plants in biodiversity research: from *in situ* to *ex situ* and back

Ievinsh Gederts / University of Latvia Faculty of Biology, Latvia

13:50 – 14:20 COFFEE BREAK (Daugavpils University, Parades Str. 1a, hall)

14:20 – 15:40 PLENARY SESSION /Chairman: Prof. Isaak Rashal/
(Daugavpils University, Parades Str. 1a, Room 130)

14:20 – 15:00 How to benefit from H2020 programme in your research

Juras Ulbikas / “Europarama” UAB, Lithuania

15:00 – 15:40 Opportunities with LIFE programme

Zane Pūpola / Administration of Latvian Environmental Protection Fund

18:00 – 24:00 WELCOME RECEPTION (Hotel “Latgola” - restaurant “Plaza”)

27 April, 2017

SECTION A /Chairman: Pēteris Evarts-Bunders, Elena Glazkova / Room 115 (Parades Str. 1)

08:00 – 08:20 Impact of habitat management on the state of *Pulsatilla patens* populations in Lithuania

Zigmantas Gudžinskas, Egidijus Žalneravičius / Nature Research Centre, Institute of Botany, Lithuania

08:20 – 08:40 The occurrence of fungi in wheat grains

Biruta Bankina, Gunita Bimšteine, Antons Ruža / Institute of Soil and Plant Sciences, Latvia University of Agriculture, Latvia
Ance Roga, Dāvids Fridmanis / Latvian Biomedical Research and Study Centre, Latvia

08:40 – 09:00 Birch tree response to different environmental and meteorological conditions in Lithuania

Valda Araminienė, Iveta Varnagirytė-Kabašinskienė, Vidas Stakėnas / Institute of Forestry Lithuanian Research Centre for Agriculture and Forestry, Lithuania

09:00 – 09:20 Population dynamics and structure of locally rare fern *Asplenium septentrionale* in Estonia

Rattur Maris / Tallinn Botanic Garden, Estonia/Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Department of Botany, Estonia

09:20 – 09:40 Ecology and invasiveness of *Symphyotrichum* species in Lithuania

Lukas Petrulaitis / Nature Research Centre, Institute of Botany, Lithuania

09:40 – 10:20 COFFEE BREAK AND POSTER PRESENTATIONS

(Daugavpils University, Parades Str. 1a, hall)

10:20 – 10:40 *Melica picta* C. Koch in the Leningrad region

Elena Glazkova / Komarov Botanical Institute of Russian Academy of Sciences, Russia

10:40 – 11:00 Population dynamics and characterization of *Clostridium macerans* on host plant of flax

Inga Stafecka, Veneranda Stramkale / Institute of Agricultural Resources and Economics, Research Centre of Priekuli, Latvia
Dace Grauda / Institute of Biology, University of Latvia, Latvia

11:00 – 11:20 Distribution trends of some mustard family (Cruciferae Juss.) species in Latvia

Ieva Rūrāne / Daugavpils University, Institute of Life sciences and Technology, Latvia/ Institute of Biology, University of Latvia, Latvia/Botanical Garden of the University of Latvia, Latvia

Pēteris Evarts-Bunders / Daugavpils University, Institute of Life sciences and Technology, Latvia

11:20 – 11:40 Biodiversity in quarries with the different types of substrate

Ianina Dmitrakova, Evgeniy Abakumov/ Saint-Petersburg state university, Russia

11:40 – 12:00 Liverwort studies in the Pasvik state nature reserve (Murmansk region)

Eugene Borovichev / Institute of the Industrial Ecology Problems of the North of the Kola Science Center RAS, Russian Federation

12:00 – 12:20 Forest ecosystem service assessment and mapping in model areas

Edgars Jūrmalis / University of Latvia, Faculty of Biology, Latvia
Zane Lībiete, Arta Bārdule / Latvian State Forest Research Institute “Silava”, Latvia

12:20 – 12:40 Preliminary taxonomic treatment of the *Ranunculus aggr. auricomus* L. (*Ranunculus auricomus* complex) in Latvia and Lithuania

Pēteris Evarts-Bunders / Daugavpils University, Institute of Life Sciences and Tehnology, Latvia

13:00 – 14:00 LUNCH (Hotel “Latgola” - restaurant “Plaza”)

14:00 – 14:20 Factors influencing epixylic cryptogamic communities on fallen logs in the Strict Nature Reserve “Kivach” (Republic of Karelia, Russia)

Eugene Borovichev, Elena Kushnevskaya, Ekaterina Shorohova / Institute of the Industrial Ecology Problems of the North of the Kola Science Center RAS, Russian Federation

14:20 – 14:40 Influence of Compost Composition on Productivity of Oil Pumpkins

Grazina Palaityte, Erika Kubiliene, Saulius Marcinkonis / Vilniaus kolegija, University of Applied Sciences, Lithuania

14:40 – 15:00 The analysis of value of rare species population’s area reserved for charcoal quarry’s development (Khakassia, Russia)

Denis Mirin / Saint-Petersburg state university, Saint-Petersburg, Russia

15:00 – 15:20 Sauleskalns lakeland - harbour of *Najas flexilis* and *N. tenuissima* habitats of international importance

Uvis Suško / Daugavpils University, Institute of Life Sciences and Technology, Latvia

15:20 – 16:00 COFFEE BREAK AND POSTER PRESENTATIONS
(Daugavpils University, Parades Str. 1a, hall)

08:00 – 08:20 Early effect of clear-cuts and their tilling on assemblages of epigeic rove beetles (Coloeoptera, Staphylinidae) in *Pinus sylvestris* stands

Tamutis Vytautas / Department of Biology and Plant Biotechnology, Aleksandras Stulginskis University, Lithuania/Kaunas T. Ivanauskas Zoological Museum, Lithuania/Kaunas Botanical Garden of Vytautas Magnus University, Lithuania
Skłodowski Jarosław / Department of Forest Protection and Ecology; Warsaw University of Life Sciences, Poland

08:20 – 08:40 Abundance and composition of dung beetles in the developmental cycle of pine stands in Człuchów Forest (NW Poland)

Artur Rutkiewicz, Adam Byk / Department of Forest Protection and Ecology Warsaw University of Life Sciences – SGGW, Poland

08:40 – 09:00 Genetic diversity analysis of *Macoma balthica* from Gulf of Riga

Oksana Fokina, Dace Grauda, Isaak Rashal / University of Latvia Institute of Biology, Latvia
Ingrīda Puriņa, Ieva Bārda / Latvian Institute of Aquatic Ecology, Latvia

09:00 – 09:20 The first records and present distribution of *Natrix natrix* in the Daugavpils district, southernmost part of Latvia, as a possible result of climate changes in the region

Mihails Pupins, Aija Pupina / Daugavpils University, Institute of Life Sciences and Technologies, Latvia/Latgales Zoo, Daugavpils, Latvia

09:20 – 09:40 The association between abundance of perch ectoparasites and water quality parameters of Lake Sila, Latvia

Maksims Zolovs, Madara Priekule, Olesia Gasperovich, Elena Kolesnikova, Sergejs Osipovs / Institute of life sciences and technology, Daugavpils University Latvia

09:40 – 10:20 COFFEE BREAK AND POSTER PRESENTATIONS

(Daugavpils University, Parades Str. 1a, hall)

10:20 – 10:40 Diversity of spider ecological groups within the calcareous fens of Latvia

Maija Štokmane / University of Latvia, Faculty of Biology, Latvia

10:40 – 11:00 Effectiveness of two methods for mesocercariae of *Alaria alata* detection in wild boars (*Sus scrofa*)

Zanda Ozoliņa, Gunita Dekšne / Institute of Food Safety, Animal Health and Environment BIOR, Latvia

11:00 – 11:20 Determining factors that negatively affects environment of lake Ilzas Geranimovas by analyzing structure of macrozoobenthos

Raymond Reshchenko / University of Latvia, Latvia

- 11:20 – 11:40 The Genus *Pachyrhynchus* Germar, 1824 (Coleoptera: Curculionidae) fauna, biogeography, mimicry and place in landscape protection
Anita Rukmane, Arvīds Barševskis / University of Daugavpils, Institute of Life Sciences and Technology, Daugavpils, Latvia
- 11:40 – 12:00 Preliminary results on population trends of Northern Birch Mouse in Latvia revealed by Owl prey remain analysis
Andris Avotiņš / University of Latvia, Faculty of Biology, Department of Zoology and Animal, Latvia
Vitālijs Ignatjevs / University of Daugavpils, Latvia
- 12:00 – 12:20 Dragonfly (Odonata) distribution in Latvia from 1778 to 2016 and the main factors of forest management influencing its distribution and population size in Latvia
Mārtiņš Kalniņš / JSC “Latvijas valsts meži”, Latvia
- 12:20 – 12:40 Preliminary results of study for clinical signs associated with gastrointestinal parasite infection in dogs and cats
Maira Mateusa, Gunita Deksnē / Institute of Food Safety, Animal Health and Environment BIOR, Latvia
Maira Mateusa, Dace Keidane / Latvian University of Agriculture, Faculty of Veterinary medicine, Latvia
- 13:00 – 14:00 LUNCH (Hotel “Latgola” - restaurant “Plaza”)**
- 14:00 – 14:20 Factors of variability of ligulas’ folds of *Arion lusitanicus* auct. non J. Mabilie 1868
Iveta Jakubāne, Maksims Zolovs / Daugavpils University, Institute of Life Science and Technology, Latvia
Mantas Adomaitis, Grita Skujiene / Vilnius University, Life Sciences Center, Institute of Bioscience, Lithuania
Digna Pilāte / Daugavpils University, Institute of Life Science and Technology, Latvia; Latvian State Forest Research Institute “Silava”, Latvia
- 14:20 – 14:40 Phenological research on ground beetles (Coleoptera: Carabidae) inhabiting differently tilled and pre-cropped winter wheat fields
Jānis Gailis, Ināra Turka / Latvia University of Agriculture, Institute of Soil and Plant Sciences, Latvia
- 14:40 – 15:00 Recovered suitability of deer habitat in hemiboreal woodland 23 years after vast forest fire in Slītere National Park, Latvia
Jānis Ozoliņš, Mārtiņš Lūkins, Samantha Jane Howlett, Aivars Ornicāns, Arvīds Priedītis, Āris Jansons / Latvian State Forest Research Institute “Silava”, Latvia
- 15:00 – 15:20 Satellite tracking of the Eurasian Bittern *Botaurus stellaris* in Latvia: notes on post-nuptial migration, wintering and habitat preferences
Jānis Reihmanis, Laura Zvingule / Latvian Fund for Nature, Latvia
Artūrs Laubergs/Laboratory of Ornithology, Institute of Biology, University of Latvia, Latvia

Roberts Šiliņš / Lake Engure Nature Park Fund; address: Engure Ornithological Research Centre, Latvia

15:20 – 16:00 COFFEE BREAK AND POSTER PRESENTATIONS

(Daugavpils University, Parades Str. 1a, hall)

16:00 – 16:20 Dynamics of species diversity and abundance of voles in modern landscapes of East Fennoscandia

Juri Kurhinen / University of Helsinki, Finland; Forest Research Institute, Karelian Research Centre, RAS, Russia

Ivanter Ernest / Petrozavodsk State University, Petrozavodsk, Russia

Kutenkov Anatoly / State Nature Reserve Kivach, Russia

Yakimova Alina / Institute of Biology, Karelian Research Centre, Russian Academy of Science, Russia

Saburova Lidija / Federal Center for Integrated Arctic Research, Russian Academy of Sciences, Russia

16:20 – 16:40 Digitizing natural history collections in Estonia: current status and perspectives

Villu Soon / Natural History Museum and Botanical garden, University of Tartu, Estonia

28 April, 2015

09:30 – 19:00 EXCURSION TO NATURE PARK “DAUGAVAS LOKI”

Nature Park “Daugavas loki” was created to preserve the unique natural complexes, natural, cultural and historical values and little transformed landscapes of the ancient valley of the Daugava on the site of Naujene to Kraslava. The bends of the ancient valley of the Daugava are considered to be the oldest geological formations in Latvia. The Nature Park “Daugavas loki” as part of Augsdaugava protected landscapes area was recognized as the NATURA 2000 territory in 2004, but in 2011 this park was included in the Latvian National UNESCO World Heritage List.

POSTERS

1. Curculionoidea (Insecta: Coleoptera) of the Kaliningrad region (Russia)
Alekseev Vitalii / Department of Zootechny, FGBOU VO “Kaliningrad State Technical University”, Russia
Bukejs Andris / Institute of Life Sciences and Technologies, Daugavpils University, Latvia
2. Physiological responses of rare coastal salt marsh plant *Triglochin maritima* to soil chemical heterogeneity
Andersone-Ozola Una, Gaile Laura, Ievinsh Gederts / University of Latvia, Faculty of Biology, Latvia
3. *Stricteripus baenningeri* (Straneo, 1953) (Coleoptera, Carabidae) a new species for the fauna of Panama
Anichtchenko Alexander / University of Daugavpils, Institute of Life Sciences and Technology, Latvia
4. Factors affecting distribution of nemoral herbaceous species in broad-leaved tree woodland
Artistova Anna, Brūmelis Guntis / University of Latvia, Faculty of Biology, Latvia
5. Evaluation of the possible contribution of mitochondrial alternative respiratory pathway in leaves of *Triticum aestivum* L. under warming climate conditions
Batjuka Anna, Škute Natalja / Department of Ecology, Institute of Life Sciences and Technology, Daugavpils University, Latvia
6. The effect of water salinity (NaCl) on changes in DNA methylation in the invasive macrophyte *Elodea canadensis* (Michx. 1803)
Batjuka Anna, Savicka Marina, Petjukevičs Aleksandrs, Škute Natalja / Department of Ecology, Institute of Life Sciences and Technology, Daugavpils University, Latvia
7. Experience of bats research in the North of European Russia
Belkin Vladimir, Ilyukha Viktor, Fyodorov Fjodor, Simonov Sergey, Khizhkin Evgeny, Yakimova Alina, Morozov Artem, Antonova Ekaterina / Institute of Biology, Karelian Research Centre RAS, Russia
Kurhinen Juri / University of Helsinki, Finland; Forest Research Institute, Karelian Research Centre, RAS, Russia
8. Vegetation diversity of urban forest-parks in Vilnius (Lithuania)
Bernat Ana, Marozas Vitas / Institute of Environment and Ecology, Aleksandras Stulginskis University, Lithuania
9. Effect of soil preparation method on occurrence and growth of naturally occurring *Pinus sylvestris* seedlings three years after planted stand establishment
Blate Katrīna, Celma Santa, Dūmiņš Kārlis, Neimane Santa, Štāls Toms, Štikāne Kristīne, Lazdiņa Dagnija / Latvian State Forest Research Institute Silava, Latvia

10. Seasonal Chlorophyll a fluorescence dynamics in leaves of *Pentaphylloides fruticosa* (L.) O.Schwarz in relation with the changes of relative soil moisture
- Bojāre Aiva, Megre Dace** / National Botanical Garden, Latvia
Dokāne Kristīne / Genomics and bioinformatics, Institute of Biology, University of Latvia, Latvia
Evarts-Bunders Pēteris / Daugavpils University, Institute of Life Sciences and Technology, Latvia
11. Genetic diversity of *Daphnia cucullata* Sars, 1862 in Latvian lakes based on nuclear DNA markers (rapd and microsatellites)
- Brakovska Aija** / Institute of Life Sciences and Technology, Laboratory of Hydroecology, Daugavpils University, Latvia
Škute Natalja / Institute of Life Sciences and Technology, Laboratory of Molecular biology and genetics, Daugavpils University, Latvia
12. Genetic variability study of ponto-caspian gammarid *Pontogammarus robustoides* g. O. Sars, 1894 in the Kegums reservoir
- Brakovska Aija, Paidere Jana** / Institute of Life Sciences and Technology, Laboratory of Hydroecology, Daugavpils University, Latvia
13. The comparison of productivity of the pure and mixed larch stands in Lithuania
- Brazaitis Gediminas, Godvod Kšištof** / Aleksandras Stulginskis University, Lithuania
14. Life cycle of coarse woody debris
- Brūmelis Guntis, Elferts Didzis, Treimane Agita, Zviedre Egita, Šūba Undīne, Oļehnoviča Evita, Tjarve Didzis, Brūmelis Mārtiņš** / University of Latvia, Faculty of Biology, Latvia
15. Latvian flea-beetles (Coleoptera: Chrysomelidae: Galerucinae: Alticini): fauna and biogeography
- Bukejs Andris** / Institute of Life Sciences and Technology, Daugavpils University, Latvia
16. Palaeodiversity of Latridiidae (Insecta: Coleoptera) in Eocene Baltic amber
- Bukejs Andris** / Institute of Life Sciences and Technologies, Daugavpils University, Latvia
Alekseev Vitalii I / Department of Zootechny, FGBOU VO “Kaliningrad State Technical University, Russia
Reike Hans-Peter / Entomological Institute Dresden, Germany
17. The effect of long distance transfer on survival, wood yield and stem quality of scots pine populations
- Buzinskas Linas, Danusevicius Darius** / Aleksandras Stulginskis University, Lithuania
18. Selected alien aphid species for Poland
- Damc Jan, Żywko Jagoda, Durak Roma** / University of Rzeszow, Department of Zoology, Poland

19. Bat rabies virus in Latvia
Dobroštana Marianna, Cvetkova Svetlana, Rodze Ieva / Institute of Food Safety, Animal Health and Environment “BIOR”, Latvia
Dobroštana Marianna / Daugavpils University, Institute of Life Sciences and Technology, Latvia
Pētersons Gunārs / Latvia University of Agriculture, Faculty of Veterinary Medicine, Latvia
Saulīte Vaira / RSU A. Kirchensteins Institute of Microbiology and Virology, Latvia
20. Difference in male genitalia between *Aprophata* Pascoe, 1864 and *Pseudaprophata* Breuning, 1961 (Coleoptera: Cerambycidae)
Dunskis Aivars, Barševskis Arvīds / Daugavpils University, Institute of Life Sciences and Technology, Latvia
21. New localities of rare vascular plants in protected landscape area "Augšzeme"
Evarte-Bundere Gunta, Evarts-Bunders Pēteris, Krasnopolška Dana / Daugavpils University, Institute of Life Sciences and Tehnology, Latvia
22. Antimicrobial activity of ethanolic extracts of spices and herbs against *Aspergillus* spp., intestinal bacterial microflora and pathogens *Salmonella*, *listeria* spp.
Fogele Baiba, Aksjonova Lidija, Valciņa Olga, Bērziņš Aivars / Institute of Food Safety, Animal Health and Environment “BIOR”, Latvia
23. Sanitary conditions after forest fire in forest site type *hylocomiosa*
Freimane Lāsma, Miezīte Olga / Latvia University of Agriculture, Latvia
24. Forest phytocenotic changes in impact zone of municipal Vilnius county (Lithuania) waste landfill
Anželika Dautartė, Algirdas Gavenauskas, Janina Šepetienė / Faculty of Forestry and Ecology Aleksandras Stulginskis University, Lithuania
25. Electrochemical biosensor based on ZnO nanostructures for target DNA detection
Gerbreders Vjačeslavs, Tamanis Edmunds, Ogurcovs Andrejs, Krasovska Marina, Mihailova Irēna, Sarajevs Pāvels, Gerbreders Andrejs, Sļedevskis Ēriks / Daugavpils University, Institute of Life Sciences and Technology, Department of Technology, G.Liberts' Center of Innovative Microscopy, Latvia
Kokina Inese, Mickeviča Ilona / Daugavpils University, Institute of Life Sciences and Technology, Department of Biotechnology, Laboratory of Genomics and Biotechnology, Latvia
26. Ground beetles fauna of “Nizhnyaya kama” national park
Gordienko Tatyana, Vavilov Dmitriy, Sukhodolskaya Raisa / State Budgetary Establishment Research Institute for Problems of Ecology and Mineral Wealth Use of Tatarstan Academy of Sciences, Russian Federation
Mukhametnabiev Timur / Kazan (Volga region) Federal University, Kazan University, Russian Federation

27. *In vitro* method for obtaining tetraploid red clover (*Trifolium pratense* L.) Plants
Grauda Dace, Belogradova Inta, Lisina Nadezda, Rashal Issak / Institute of Biology, University of Latvia, Latvia
Rebane Aija / Research Institute of Agriculture, Latvia University of Agriculture, Latvia
28. First data of Coleoptera studies of restoring sand - gravel pits in Lithuania
Grendienė Neda, Ivinskis Povilas, Rimšaitė Jolanta / Nature Research Centre, Lithuania
29. Data on investigation of mass occurrence of striped millipedes (*Ommatoiulus sabulosus*, Myriapoda) in Lithuania
Ivinskis Povilas, Rimšaitė Jolanta / Nature Research Centre, Lithuania
30. Population genetics in parasitology: tool of molecular epidemiology
Jahundoviča Inese, Kirjušina Muza, Kokina Inese / Daugavpils University, Institute of Life Sciences and Technology, Latvia
31. Long-term effect of whole tree biomass harvesting on vegetation in a dry scots pine stand
Jansons Āris, Robalte Linda, Čakš Roberts, Matisons Roberts / Latvian State Forest Research Institute "Silava", Latvia
32. Very large Latvian river water quality assessment with phytoplankton
Jekabsons Jolanta, Uzule Linda / Laboratory of Hydrobiology, Institute of Biology, University of Latvia, Latvia
33. Ecological factors affecting demographic parameters of *Cypripedium calceolus* L. in Kemeru national park
Kārklīņa Annija, Dauškane Iluta / Faculty of Biology, University of Latvia, department of Botany and ecology, Latvia
Kļaviņa Dace / National Botanic Garden of Latvia, Latvia
34. Sulfur as soil acidifier for blueberry soil adjustment
Karlsons Andis, Osvalde Anita / Laboratory of Plant Mineral Nutrition, Institute of Biology, University of Latvia, Latvia
35. Accelerated growth and encapsulation reactions of the greater wax moth (*Galleria mellonella*).
Kecko Sanita, Krams Indrikis, Krama Tatjana, Krams Ronalds / Department of Biotechnology, Institute of Life Sciences and Technology, Daugavpils University, Daugavpils, Latvia
Krams Indrikis / Institute of Ecology and Earth Sciences, University of Tartu, Tartu, Estonia/Institute of Food Safety, Animal Health and Environment BIOR, Latvia
Inashkina Inna / Latvian Biomedical Research and Study Centre, Rīga, Latvia
Trakimas Giedrius / Centre for Ecology and Environmental Research, Vilnius University, Vilnius, Lithuania

36. Opportunities and future vision of confocal microscopy
Kecko Sanita, Jahundoviča Inese, Sidina Anželika, Mežaraupe Ligita, Kirilova Jeļena, Kirjušina Muza / Department of Biotechnology, Institute of Life Sciences and Technology, Daugavpils University, Latvia
37. Progress in the study of aphyllorphoroid fungi of the Murmansk region (Russia)
Khimich Yuliia, Isaeva Lyudmila / Institute of the Industrial Ecology Problems of the North KSC RAS, Russian Federation
38. *Sarcocystis* parasites in small mammals from Latvia: first data
Kirillova Viktorija, Grāvele Evita, Jahundoviča Inese, Kirjušina Muza / Institute of Life Science and Technology, Daugavpils University, Latvia
Pilāte Digna / Institute of Life Science and Technology, Daugavpils University, Latvia; Latvian State Forest Research Institute “Silava”, Latvia
Pilāts Valdis / Nature Conservation Agency, Latvia
Rudaitytė Eglė, Butkauskas Dalius, Prakas Petras / Institute of Ecology, Nature Research Centre, Lithuania
39. *Sarcocystis* species detected in the muscles of red foxes (*Vulpes vulpes*) from Latvia and Lithuania
Kirillova Viktorija, Jahundoviča Inese, Kirjušina Muza / Institute of Life Science and Technology, Daugavpils University, Latvia
Butkauskas Dalius, Prakas Petras / Institute of Ecology, Nature Research Centre, Lithuania
40. The impact of climate change on fructification of wood-inhabiting fungi in Baltic states
Klyukina Elena, Motiejūnaitė Jurga / Nature Research Centre, Laboratory of Mycology, Lithuania
41. Changes in genotype of flax *Linum usitatissimum* and *Rucola eruca sativa* in vitro culture induced by different nanoparticles
Kokina Inese, Mickeviča Ilona, Jermalonoka Marija, Bankovska Linda, Jahundoviča Inese / Daugavpils University, Institute of Life Sciences and Technology, Department of Biotechnology, Laboratory of Genomics and Biotechnology, Latvia
Gerbreders Vjačeslavs, Ogurcovs Andrejs / Daugavpils University, Institute of Life Sciences and Technology, Department of Technology, G.Liberts' Center of Innovative Microscopy, Latvia
42. The common hamster (*Cricetus cricetus*) as ‘Endangered pest’ – its current status in Hungary
Kondor Tamás / Department of Systematic Zoology and Ecology, Eötvös Loránd University, Hungary; Bükk Mammalogical Society, Hungary
Váczai Viktória / Department of Systematic Zoology and Ecology, Eötvös Loránd University, Hungary
Cserkés Tamás / Bükk Mammalogical Society, Hungary; Department of Systematic Zoology and Ecology, Eötvös Loránd University, Hungary
Szitta Tamás / Szalakóta Society, Cserépfalu, Hungary
Seres Nándor / Bükk National Park, Hungary

43. Diversity and evolution of the glans penis morphology in birch mice (genus *Sicista*, Sminthidae, Rodentia)
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44. Application of near-infrared reflectance spectroscopy for detection of acrylamide content in potato crisps and bread
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45. Genetic diversity and endopolyploidy of *Dianthus arenarius* in Latvia and Belarus
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47. A basic species of *Pilosella* hill in Latvia
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48. Development of vascular plant communities depending on tree species and forecrop in the third to sixth year in an experimental tree plantation on arable land
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51. Trampling tolerance of forest vegetation after orienteering competition in protected areas and production forests in Latvia
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52. Applying of fish techniques for chromosome investigation in *in vitro* plant culture
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53. Sanitary condition in norway spruce *Picea abies* (L.) karst. 6-12 years old forest stands in hylocomiosa
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56. The analysis of value of rare species population's area reserved for charcoal quarry's development (Khakassia, Russia)
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57. Transplantation of rare species from alleys – is it a compromise during road reconstruction activities? Case study in Daugavpils, Latvia
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58. Genetic variability of *Dreissena polymorpha* (Pallas) populations in Latvian waterbodies
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59. Further spread and impact on native crustaceans of the alien *Gammarid pontogammarus robustoides* in the Daugava river, 2016
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60. Variance in roe deer morphometrics among seaside and inland subpopulations in Lithuania
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61. The influence of long-term organic and intensive farming on spread of segetal flora plants and their species composition in agro-ecosystems
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62. The identification of carotenoids distribution changes in leaves of invasive aquatic plant *Elodea canadensis* (Michx.1803) after the influence of gradual salt stress by raman spectroscopy
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63. The invasive alien *Sambucus* sp. impact on plant communities diversity and composition in Lithuanian forests
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64. The aquaculture biology researches in Latvia: the directions and prospects
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65. First findings of alien fresh-water turtle *Pelodiscus sinensis* (Wiegmann 1835) in Latvia: vectors of introduction and risk assessment
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66. *Emys orbicularis* eggs' semi-natural incubation in unheated glass-house zooculture in Latvia: ready for wintering in ground hatchlings' carapax length, width, and body weight
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68. Management of pine trees fungal diseases in Lithuanian public and private sectors
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69. Distribution and state of *Equisetum telmateia* in Lithuania
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70. Variation in cone and seed morphology traits among the mitochondrial DNA haplotypes of scots pine (*Pinus sylvestris* L.)
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71. New data on distribution of European mantis (*Antis religiosa*, Insecta, Mantodea, Mantidae) in Lithuania
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72. Effects of land-use change on the incidence of snakebite accidents caused by *Bothrops asper* and *Porthidium lansbergii* (Serpentes: Viperidae) in antioquia department, Colombia
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73. Valorization potential beetles caught on the trunks of dead pines, based on saproxylic beetle assemblages surface trunks
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74. Biochemical and physiological responses of the invasive waterweed *Elodea canadensis* (Michx. 1803) to gradient salinity stress
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75. *Omalium rugatum* Mulsant & Rey, 1880 (Coleoptera: Staphylinidae, Omaliinae), a new species for the fauna of Latvia
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76. Genetic structure of the perch *Perca fluviatilis* (L.) population from different particular Daugava river sites
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78. Occurrence of *Phytophthora* spp. in deciduous trees in Lithuania: first results
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79. Research of microscopic fungi in rhizosphere of ornamental plants in Lithuania
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80. The spread of fungi Erysiphaceae Tul & C.Tul. on the woody plants at the city green plantations in Lithuania
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81. Epiphytic lichen diversity in broad-leaved tree forests in Latvia
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82. Wood properties of nine *Pinus sylvestris* open-pollinated families originating from different Lithuanian populations
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83. Tolerance of great fen-sedge *Cladium mariscus* to the variable water regime on the north-eastern limits of species range
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84. Use of leaf morphometric parameters for identification of hybrids between *Betula nana*, *B. humilis* and *B. pubescens*
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85. Bryophyte collections for additions and amendments to the bryophyte flora of the Žuvintas strict nature reserve
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86. Latitude and longitude variation of body shape in ground beetle *Pterostichus niger* Schal. 1783
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90. Genus name in botanical nomenclature: content, its understanding in the national botanical nomenclature
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91. New data of genus *Euphrasia* L. in Latvia
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92. Zooplankton as an indicator of river anthropogenic pollution
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94. Molecular keys for the identification of aphid species associated with apple trees in Belarus
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95. Development of overstorey in broad-leaved forests of Latvia
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96. The effect of wermikompost and peat extracts on the potato plant and tuber capability of soil +nutrient uptake in organic growing system
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98. A case study on the dynamics of *Liparis loeselii* population under natural succession of the habitat

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99. New localities of *Harmonia axyridis* in Poland and its influence on native fauna

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100. Detection of free living amoeba using scanning confocal microscopy

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