PROGRAMME
EEST /UTC+3/

Wednesday, May 25th 2022

08:00 - 09:00  Registration

09:00 - 09:10  Welcoming speech and introduction to BULCode project
Georgi Bonchev

09:10 – 12:00 SESSION 1
Chair: Georgi Bonchev

09:10 – 09:30  BIOSCAN Europe
Peter M. Hollingsworth

09:30 – 10:00  Finnish sawflies as a model for tackling a diverse and poorly known insect group using high-throughput DNA barcoding
Marko Mutanen

10:00 – 10:15  Estimating Cecidomyiidae (Diptera) species richness in Finland using high-throughput DNA barcoding
Niina Kiljunen

10:15 – 10:20  Q&A

10:20 – 10:50  Coffee-break

10:50 – 11:05  Peering into the darkness: the GBOL III-Dark Taxa project at the Bavarian State Collection of Zoology
Caroline Chimeno

11:05 – 11:20  First results on the genetic variation of the Bulgarian populations of *Morimus asper funereus* (Mulsant, 1862) (Coleoptera: Cerambycidae)
Rumyana Kostova

11:20 – 11:35  Multilocus DNA barcoding in pollinators – case study on *Merodon* hoverflies
Ljiljana Šašić Zorić

11:35 – 11:50  The evolution of DNA barcoding for food quality, safety and traceability: cases studies from Italy
Jessica Frigerio

11:50 – 12:00  Q&A
13:00 – 15:30 SESSION 2
Chair: Helena Korpelainen

13:00 – 13:30 Small, but important, players in the global barcoding field (lessons learned from the barcoding Slovak freshwater biota)
Fedor Čiampor Jr

13:30 – 13:45 Massive DNA barcode-based survey provides novel insight into aquatic invertebrate diversity and a new perspective for the protection of the ancient Skadar Lake basin
Michał Grabowski

13:45 – 14:00 Towards filling the gap - building a freshwater macroinvertebrate DNA barcode reference library for Malta
Tomasz Rewicz

14:00 – 14:15 Integrative approach to adaptive radiation in ancient lakes: evolutionary genetics of Lake Ohrid Gammarus species flock and community barcoding - project progress report
Tomasz Mamos

14:15 – 14:25 Q&A

14:25 – 14:40 Molecular taxonomy of the endemic Ponto-Caspian amphipods shows multiple discrepancies between morphological and molecular taxonomic units
Denis Copilaş-Ciocianu

14:40 – 14:55 Genetic diversity of marine jellies from the Azores accessed with new multi-marker MinION metabarcoding approach
Carlos J. Moura

14:55 – 15:10 Managing human-mediated range shifts: understanding spatial, temporal and genetic variation in marine non-native species
Marc Rius

15:10 – 15:25 Do pseudogenes pose a problem for metabarcoding marine animal communities?
Jessica A. Schultz

15:25 – 15:30 Q&A

15:30 – 16:00 Coffee-break

16:00 – 18:20 SESSION 3
Chair: Peter M. Hollingsworth

16:00 – 16:30 BIOSCAN – Revealing the Diversity, Dynamics, Interactions of Life,
Paul Hebert

16:30 – 16:50 Progress Towards the Assembly of a DNA Barcode Reference Library for Bulgarian Fauna
Gergin Blagoev

16:50 – 17:30 DNA barcoding and the BioAlfa process to facilitate the DNA barcoding of all of Costa Rica, embedded within BIOSCAN
Daniel Janzen

17:30 – 17:45 Full chloroplast sequencing using genome skimming for novel plant DNA barcode discovery in Amaranths
Leonardo Galindo-González
17:45 – 18:00  COI database from BOLD, NCBI and custom sequences
   Emese Meglécz

18:00 – 18:15  Unlocking the potential of insect biomonitoring surveys using DNA-metabarcoding: Examples from two nationwide monitoring schemes in the UK
   Dimitrios Petsopoulos

18:15 – 18:20  Q&A

18:20 – 19:30 POSTER SESSION

P01  Let’s talk about the (lady)birds and the bees: how insects can whisper a multitude of stories
   Physilia Chua

P02  Prionchulus muscorum group (Nematoda, Mononchidae) from riparian habitats in Bulgaria
   Stela Dipchikova

P03  MEMO and MEMO+: Identification of introduction pathways and surveillance of exotic Aedes mosquito species in Belgium
   Ann Vanderheyden

P04  Inventory and analysis of diversity for stoneflies (Plecoptera), caddisflies (Trichoptera) and scorpionflies (Mecoptera) in Medvednica Nature Park using classical taxonomy and DNA barcoding
   Dora Kermek

P05  COIns: a curated reference database of COI sequences for insect species identification through DNA metabarcoding
   Giulia Magoga

P06  Unveiling the diversity of the deep-sea pedunculate barnacles Poecilasma (Cirripedia: Thoracica) from the Gorringe Bank in North-East Atlantic Ocean
   Jorge Lobo-Arteaga

P07  DNA barcoding of the Polish epigean Amphipoda
   Hedvig Csapó

P08  Genetic diversity in high-mountain Thymus species in Bulgaria revealed by ISSR genetic markers
   Petar Zhelev

P09  DNA Barcoading Confirmed first record of the Clubfoot sillago Sillaginopodys chondropus (Bleeker, 1849) (Perciformes: Sillaginidae) from the Iranian coast of Oman Sea
   Mohammad Sadegh Alavi-Yeganeh

P10  First report of microsporidian parasites infecting Gammarus species from ancient Lake Ohrid
   Serena Mucciolo

P11  First data on DNA barcoding of representatives of the genus Centaurea s.l. (Asteraceae) from Bulgaria
   Svetlana Bancheva

P12  Phylogenetic identification of Balkan endemic Stachys species and genomic stability during ex vitro conservation
   Desislava Mantovska

P13  Catmint (Nepeta nuda L.) phylogenetics defined by nuclear and chloroplast DNA barcodes
   Georgi Bonchev

P14  Self-organized map as a powerful tool for population structure analysis of Bulgarian Bread Wheat
   Vladimir Aleksandrov
P15 Genetic diversity as a paramount factor determining wheat adaptation to drought stress
Mariyana Georgieva

P16 Linking DNA methylation determinants to chromatin organization following high temperature stress
Dimitar Todorov

P17 Biotechnological approaches for conservation of endangered medicinal plants *Rhodiola rosea* and *Rhodiola kirilowii*
Krasimira Tasheva

P18 Molecular identification and phylogenetic relationships of *Colletotrichum* isolates pathogenic on cultivated plants in Bulgaria
Vasilissa Manova

P19 Impact of heavy metal pollution on soil bacterial community structure in the area of a non-ferrous metal processing plant, Southern Bulgaria
Galina Radeva

P20 Bacterial and fungal inhabitants of iron ochres precipitated from As and Sb contaminated waters at several abandoned mining deposits in Slovakia
Ivona Kautmanová

P21 Diversity of fungal communities in long-term copper contaminated soils
Michaella Petkova

P22 Sources of modularity in bacterial co-occurrence network along pH and C:N gradients
Niloufar Hagh-Doust

P23 Identification of fungal taxa with pathogenic potential in soil samples from Perunika Glacier’s newly formed forefields - Livingston Island, Antarctica
Yordan Hodzhev

P24 Barcoding in Bright-Spored and Dark-Spored Myxomycetes: No Universal Threshold
Iryna Yatsiuk

P25 Metabarcoding reveals high-resolution biogeographic and metaphylogeographic patterns through the Atlanto-Mediterranean transition
Adrià Antich Gonzalez

P26 How dark of a taxon is Microgastrinae (Braconidae) really?
Amelie Höcherl

P27 How does urbanisation impact pond biodiversity in a geographical gradient?
Monika Baranowska

P28 The use and challenges of DNA barcoding method
Dana Szabóová

P29 Scientific validation of powdered immunomodulatory products in trade by DNA barcodes to ensure consumer safety
Nithaniyal Stalin

P30 Bacterial communities in ballast tanks of cargo vessels - shaped by salinity, treatment and the point of origin of the water but “hatch” its typical microbiome
Helen Tammert

20:00 – 21:30 Welcome cocktail
Thursday, May 26th 2022

09:00 - 12:30  SESSION 4
Chair: Svetlana Bancheva

09:00 – 09:15  The effects of sample age and taxonomic origin on the success of DNA barcoding when using herbarium specimens
Helena Korpelainen

09:15 – 09:30  Environmental and biotic signatures on plant communities and plant–microbe associations in Zackenberg valley– an eDNA-based approach
Bastien Parisy

09:30 – 10:00  Testing metabarcoding on temperate lake sediments to investigate 31-thousand years of flora changes
Laura Parducci

10:00 – 10:15  Simultaneous DNA barcoding of museum specimens using cross-species hybridization capture
Stefanie Agne

10:15 – 10:30  Joint Danube Survey 4: Metabarcoding analysis of phytobenthos samples
Kálmán Tapolczai

10:30 – 10:35  Q&A

10:35 – 11:05  Coffee-break

11:05 – 11:35  DNA-based identification of traded wildlife: Monitoring of terrestrial orchid tubers in trade
Hugo J. de Boer

11:35 – 11:50  Honeybees’ functions through DNA in honey
Helena Wirta

11:50 – 12:05  A research road-map towards a nuclear DNA barcode for plants
Wu Huang

12:05 – 12:20  Genome skimming: an efficient extension to conventional DNA Barcodes
Éric Coissac

12:20 – 12:30  Q&A

12:30 – 13:30  Lunch

13:30 – 15:20  SESSION 5
Chair: Helena Wirta

13:30 – 14:00  Lessons learned from NorBOL: Opportunities and challenges building reference libraries of marine, freshwater and terrestrial biotas
Torbjörn Ekrem

14:00 – 14:30  Achievable near real-time biosphere monitoring of Earth using environmental DNA
Kristy Deiner

14:30 – 14:45  Identification of extremophilic microorganisms in four different thermal springs with environmental DNA metabarcoding
İşlay Çelik
14:45 – 15:00 Can we identify freshwater pea clams (Pisidium spp.) with novel molecular methods in Sweden? Sonja Leidenberger

15:00 – 15:15 Strengths and shortcomings of the use of water eDNA metabarcoding for the study of marine benthic communities: effects of marker type and sequencing platform Xavier Turon

15:15 – 15:20 Q&A

15:20 – 15:50 Coffee-break

15:50 – 16:50 E-POSTER SESSION I

Chair: Ina Aneva


15:55 – 16:00 EP02 DNA barcoding of Junipeus L. species in Kazakhstan based on internal transcribed spacer Shyryn Almerekova

16:00 – 16:05 EP03 Integrated use of BOLD and GenBank databases for further DNA barcoding research Takeru Nakazato

16:05 – 16:10 EP04 Revealing the soil biodiversity in Hong Kong using a citizen science approach Wai Lok So

16:10 – 16:15 EP05 Evolutionary history of the plastid genome in Bromus tomentosus, an Old-World species in the Bromus sect. Bromopsis: Evidence for introgressive hybridization Akram (Saba) Nasiri

16:15 – 16:20 EP06 Environmental DNA: building a reference data library for the ichthyofauna of the São Francisco River basin, Brazil Kênia Ferreira Camargos

16:20 – 16:25 EP07 Environmental DNA: building a reference genomic library for freshwater fishes of Upper Paraná basin, Brazil Gabriela Peres

16:25 – 16:30 EP08 DNA barcoding in amphitropical Larreas (Zygophyllaceae): a case of hybridization and chloroplast capture in sympatric populations Lucia Virginia Castello


16:35 – 16:40 EP10 Unexpected pattern of COI diversity observed within the Merodon ruficornis group (Diptera, Syrphidae) Iva Gorše

16:40 – 16:45 EP11 Integrated molecular approaches for advanced quality assessment of botanicals and derived herbal preparations Ancuta Cristina Raclariu-Manolica

16:45 – 16:50 EP12 Widening the genetic diversity of bread wheat by the chromosomes transferred from a hybrid wheatgrass Agropyron glael Klaudia Kruppa
09:00 – 12:30 SESSION 6  
Chair: Eero Vesterinen

09:00 – 09:15 Scholarly publication of barcoding data  
Lyubomir Penev

09:15 – 09:30 Barcodes and DNA Derived Biodiversity Evidence in GBIF  
Dmitry Schigel

09:30 – 09:45 Towards accelerated and standardized species descriptions (ASSD) based on DNA barcodes and supplementary data on BOLD  
Axel Hausmann

09:45 – 10:00 dnabarcoder: an open-source software package for analyzing and predicting DNA sequence similarity cut-offs for fungal sequence identification  
Duong Vu

10:00 – 10:15 Arthemis: a web-interface database for the identification of pest and beneficial Arthropods for agriculture in Europe  
Jean-Claude Streito

10:15 – 10:25 Q&A

10:25 – 10:55 Coffee-break

10:55 – 11:10 Molecular analysis of mucilage formation at Aegean Sea via metabarcoding  
Gizem Geçgil

11:10 – 11:25 Long-term management history affects seasonal diet composition of semi-domesticated reindeer  
Stefaniya Kamenova

Vlada Peneva

11:40 – 11:55 Soil biodiversity: microeukaryotes in Alpine mires  
Aaron Pérez-Haase

11:55 – 12:10 Factors affecting soil invertebrate biodiversity in agroecosystems of the Po Plain area (Italy)  
Matteo Montagna

12:10 – 12:25 Monitoring tropical arthropods in Barro Colorado Island, Panama, using DNA metabarcoding  
Daniel Souto-Vilarós

12:25 – 12:30 Q&A

12:30 – 13:30 Lunch

13:30 – 17:20 SESSION 7  
Chair: Iryna Yatsiuk

13:30 – 13:45 DNA barcoding aids in the understanding of bat species from Malta
Clare Marie Mifsud
13:45 – 14:00  Studying the ecological factors underlying a novel tool for wood-inhabiting fungal conservation
Sonja Saine

14:00 – 14:15  Using MinION Nanopore sequencing to simultaneously identify multiple, illegally imported wild meat samples in Brussels, Belgium
Ann Vanderheyden

14:15 – 14:30  Cytochrome c oxidase subunit 1 (Cox1) gene as a DNA barcode for lobose amoebae (Amoebozoa): emerging problems after eleven years of data and experience accumulation
Alexander Kudryavtsev

14:30 – 14:45  Molecular contributions to the conservation of pubescent oak and pedunculate oak forest genetic resources in Romania, Bulgaria and Republic of Moldova
Dragos Postolache

14:45 – 15:00  Species and genera discrimination of yeast of the Starmerela clade using DNA barcoding analysis
Roumen Dimitrov

15:00 – 15:15  Survey of emerging yeast pathogens circulating in Bulgarian ecosystems
Dilnora Gouliamova

15:15 – 15:30  SRAP markers – a robust marker system for analysis of genetic diversity in natural populations and collections of plant genetic resources
Krasimir Rusanov

15:30 – 15:40  Q&A

15:40 – 16:10  Coffee-break

16:10 – 16:25  DNA barcoding sheds light on hidden biodiversity of pseudoscorpions in Croatia
Dora Hlebec

16:25 – 16:40  Environmental DNA based detection and monitoring of alien (invasive) species in the Baltic Sea
Veljo Kisand

16:40 – 16:55  Revisiting global biogeography of freshwater microalgae: new insights from molecular data
Teofana Chonova

16:55 – 17:10  In vitro and in silico integration of metabarcoding into species-level diatom biomonitoring
Berkay Gülen

17:10 – 17:20  Q&A

17:20 – 19:00  E-POSTER SESSION II
Chair: Vasilissa Manova

Snjezana Topolovec-Pintaric

17:25 – 17:30  EP14  Testing COI primers for ichthyoplankton metabarcoding and their capability to assess local mesozooplankton communities
André O. Ferreira
17:30 – 17:35 EP15 Assessing the seasonal dynamics of zooplankton in a recreational marina of the northwest of Portugal through multi-marker DNA metabarcoding
**Jorge Moutinho**

17:35 – 17:40 EP16 Detection and monitoring of invertebrate non-indigenous species through DNA metabarcoding in a recreational marina of the Northwest of Portugal
**Fábio G. Amaral**

17:40 – 17:45 EP17 Extensive hidden diversity at small scale: the marine invertebrates of Macaronesian islands
**Pedro Vieira**

17:45 – 17:50 EP18 Characterization of arthropod communities by DNA metabarcoding of body remains sieved from wood mould of tree holes
**Carlos Lopez-Vaamonde**

17:50 – 17:55 EP19 Diet analysis with DNA metabarcoding for Antarctic Peninsula seal species
**Ayşegül Er Gökçe**

17:55 – 18:00 EP20 DNA Barcoding as an alternative method for pollinator biomonitoring
**Metehan Arikan**

18:00 – 18:05 EP21 New insights in the groundwater species diversity of the isopod genus Metastenasellus in Benin and Cameroon
**Gontran Sonet**

18:05 – 18:10 EP22 The Belgian barcoding facility for organisms and tissues of policy concern
**Kenny Meganck**

18:10 – 18:15 EP23 Structure and diversify of soil fungal communities in oil-bearing rose and lavender agroecosystems from the Rose Valley region
**Lyudmila Lozanova**

**Milka Elshishka**

**Clare Marie Mifsud**

**Noel Vella**

18:30 – 18:35 EP27 Endangered genetic diversity of the stone crayfish and noble crayfish revealed by DNA barcoding and species distribution modelling
**Leona Lovrenčić**

18:35 – 18:40 EP28 Molecular Identification of *Ocimum tenuiflorum* Subtypes Rama and Krishna Tulsi Using Allele-Specific PCR Based on Single Nucleotide Polymorphism
**Raju Balaji**

18:40 – 18:45 Q&A

18:45 – 19:00 Closing ceremony, Best Poster Award

20:00 – 24:00 Conference dinner