

PROGRAMME

(schedule displayed below is in GMT)

Day 1 - December 9th, 2020

MOLECULAR SURVEYS OF BIODIVERSITY AND INVASIVE SPECIES

- 2.30pm** **Opening - Pedro Beja, Deputy Director, CIBIO-InBIO**
Nuno Fonseca, EnvMetagen ERA Chair Holder, CIBIO-InBIO
- 2.45pm *Keynote Presentation*
 Chair: Large Scale Molecular Surveys: Where Crowdsourcing and Conservation Meet
 Paulo C. Alves Michael K. Schwartz, National Genomics Center for Wildlife and Fish Conservation, Rocky Mountain Research Station, USA
- 3.25pm Q&A – Moderator: Paulo Célio Alves
- 3.45pm *Break*
- 3.55pm *Invited Communication*
 Chair: Metabarcoding with MinION: Speeding up the detection of invasive aquatic species using environmental DNA and nanopore sequencing
 Vanessa Mata Bastian Egeter, Nature Metrics, UK (*former CIBIO member*)
- Selected Oral Communications*
 Surveillance of non-indigenous invertebrate species in recreational marinas in the North and Center of Portugal through DNA Metabarcoding - Ana Sofia Lavrador, University of Minho, Portugal
 Revealing the challenges of assessing the megadiverse neotropical freshwater fish communities using eDNA Metabarcoding – Jake Jackman, University of Salford, UK
 Using meta-barcoding tools to “remote” monitoring of primate meat consumption at restaurants in Guinea-Bissau, West Africa - Joana Ferreira da Silva, CIBIO-InBIO, Portugal
- 5.00pm Q&A – Moderator: Vanessa Mata
- 5.20pm *Break*
- 5.30pm *Invited Communication*
 Chair: Improving amphibian detection from aquatic eDNA
 Joana Paupério Sara Peixoto, University of Hull, UK (*former CIBIO member*)
- Selected Oral Communications*
 Local-scale dispersal constraints promote spatial structure and arthropod diversity within a tropical sky-island - Nancy Gálvez-Reyes, Instituto de Ecología, Universidad Nacional Autónoma de México, Mexico
 eDNA, an emerging tool for mosquito monitoring - Rafael Gutierrez-Lopez, CIBIO-InBIO, Portugal
 Rapid characterization of island arthropod communities using DNA metabarcoding: A cross-Pacific comparison - Susan Kennedy, Okinawa Institute of Science and Technology Graduate University, Japan
- 6.35pm Q&A – Moderator: Joana Paupério
- 6.55pm *Closing of Day 1*

PROGRAMME

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Day 2 - December 10th, 2020

NEXT GENERATION BIOMONITORING OF AQUATIC AND TERRESTRIAL ECOSYSTEMS

2.40pm *Opening*

2.45pm *Keynote Presentation*

Chair: DNA to scan diatom communities for biomonitoring purposes

Manuel Lima Agnès Bouchez, INRAE, France

3.25pm Q&A – Moderator: Manuel Lima

3.45pm *Break*

3.55pm *Invited Communication*

Chair: Importance of barcode reference collections towards enhanced accuracy of molecular biodiversity monitoring

Ana Veríssimo Sónia Ferreira, CIBIO-InBIO, Portugal

Selected Oral Communications

Linking soil contamination type with fungal community composition - Alicja Okrasińska, University of Warsaw, Poland

Identification of botanical origin of bee-collected mixed pollen samples: a comparison between palynological and DNA metabarcoding methods - Andreia Quaresma, Instituto Politécnico de Bragança, Portugal

Changes in soil microbial diversity along gradients of land management intensity in São Miguel island grasslands (Azores) - Angela Vieira, CIBIO-InBIO Açores, Portugal

5.00pm Q&A – Moderator: Ana Veríssimo

5.20pm *Break*

5.30pm *Invited Communication*

Chair: eDNA biomonitoring of freshwaters: understanding the causes and consequences of technical and biological sources of bias.

Bastian Egeter Filipa Martins, CIBIO-InBIO, Portugal

Selected Oral Communications

Assessing the diversity of coastal macroinvertebrate assemblages growing in artificial substrates based on morphology and DNA metabarcoding approaches - Barbara Leite, University of Minho, Portugal

eDNA-metabarcoding from archived leaf samples allows the retrospective monitoring of plant-associated arthropod communities - Henrik Krehenwinkel, Trier University, Germany

Environmental metagenomics: The applicability of bulk eDNA shotgun sequencing for the identification of fresh water fish taxa - Manuel Curto, University of Lisbon, Portugal

6.35pm Q&A – Moderator: Bastian Egeter

6.55pm *Closing of Day 2*

PROGRAMME

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Day 3 - December 11th, 2020

UNDERSTANDING SPECIES INTERACTIONS IN COMPLEX ECOSYSTEMS

2.40pm *Opening*

2.45pm *Keynote Presentation*

Chair: The trophic ecology of African savannas

Martim Melo
Tyler Kartzinel, Brown University, USA

3.25pm Q&A – Moderator: Martim Melo

3.45pm *Break*

3.55pm *Invited Communication*

Chair: Towards understanding rodent community responses to diversely managed agroecosystems: a

Sónia DNA metabarcoding approach

Ferreira Joana Paupério, CIBIO-InBIO, Portugal

Selected Oral Communications

Altered structure and stability of bat-prey interaction networks in logged tropical forests revealed by metabarcoding - David Hemprich-Bennett, Queen Mary University of London, UK

The dynamics of cereal crop spider diet and biocontrol: a moment on the lips, a lifetime on the thrips - Jordan Cuff, Cardiff University, UK

Agropastoralists and non-agropastoralists from southern Africa present different saliva microbiomes - Magdalena Gayà-Vidal, CIBIO-InBIO, Portugal

5.00pm Q&A – Moderator: Sónia Ferreira

5.20pm *Break*

5.30pm *Invited Communication*

Chair: Using metabarcoding to understand pest control services by flying vertebrates

Pedro Beja
Vanessa Mata, CIBIO-InBIO, Portugal

Selected Oral Communications

Alien vs. predator: the role of introduced species in the diet of a keystone island-endemic omnivore, Telfair's skink (*Leiolopisma telfairii*) - Maximilian Tercel, Cardiff University, UK

An enemy's enemy is not necessarily a friend – quantifying predation on intraguild prey and pest species in apple orchards - Peter Hambäck, Stockholm University, Sweden

Metabarcoding options for the study of bird eukaryotic endoparasites - Vincent Bourret, CIBIO-InBIO, Portugal

6.35pm Q&A – Moderator: Pedro Beja

6.55pm **Closing of the Event – Pedro Beja**