

TiBE 2020 | METABARCODING AND METAGENOMICS

December 9 – 11, 2020 | Virtual Event



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 *Plenary talk*
Large Scale Molecular Surveys: Where Crowdsourcing and Conservation Meet
Michael K. Schwartz, National Genomics Center for Wildlife and Fish Conservation, Rocky Mountain Research Station, USA
- 3.25pm *Q&A*
- 3.45pm *Break*
- 3.55pm *Invited Communication*
Metabarcoding with MinION: Speeding up the detection of invasive aquatic species using environmental DNA and nanopore sequencing
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*
- 5.20pm *Break*
- 5.30pm *Invited Communication*
Improving amphibian detection from aquatic eDNA.
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*
- 6.55pm *Closing of Day 1*

Day 2 - December 10th, 2020

NEXT GENERATION BIOMONITORING OF AQUATIC AND TERRESTRIAL ECOSYSTEMS

- 2.40pm *Opening*
- 2.45pm *Plenary talk*
DNA to scan diatom communities for biomonitoring purposes.
Agnès Bouchez, INRAE, France
- 3.25pm *Q&A*
- 3.45pm *Break*
- 3.55pm *Invited Communication*
Importance of barcode reference collections towards enhanced accuracy of molecular biodiversity monitoring.
Sónia Ferreira, CIBIO-InBIO, Portugal
- Selected Oral Communications*
Linking soil contamination type with fungal community composition - Alicja Okraśńska, 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*
- 5.20pm *Break*
- 5.30pm *Invited Communication*
eDNA biomonitoring of freshwaters: understanding the causes and consequences of technical and biological sources of bias.
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*
- 6.55pm *Closing of Day 2*

Day 3 - December 11th, 2020

UNDERSTANDING SPECIES INTERACTIONS IN COMPLEX ECOSYSTEMS

- 2.40pm *Opening*
- 2.45pm *Plenary talk*
The trophic ecology of African savannas
Tyler Kartzinel, Brown University, USA
- 3.25pm *Q&A*
- 3.45pm *Break*
- 3.55pm *Invited Communication*
Towards understanding rodent community responses to diversely managed agroecosystems: a DNA metabarcoding approach.
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*
- 5.20pm *Break*
- 5.30pm *Invited Communication*
Using metabarcoding to understand pest control services by flying vertebrates
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 Terce, 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*
- 6.55pm **Closing of the Event**