



SETAC / iEOS - Joint Focused Topic Meeting on Environmental and (eco)toxicological Omics and Epigenetics: Science, Technology and Regulatory Applications

Monday 12 September

Opening address

09:00 Welcome:

Bart Bosveld (SETAC Europe, Belgium)

Peter Kille (EOS Director / Cardiff University, UK)

Dave Spurgeon (co-chair Scientific Committee/ Centre for Ecology and Hydrology, UK)

Karel De Schampelaere (Local organizer / Ghent University, Belgium)

09:20 01 | **Opening Keynote:** Ecological and Evolutionary Genomics: from metabarcoding to causative nucleotide - Mark Blaxter (University of Edinburgh, UK)

Session 1: Microbial genomics and metagenomics

Co-chairs: Umer Zeeshan Ijaz (University of Glasgow, UK) & Claire Evans (National Oceanography Center, UK)

10:00 Session intro (co-chairs)

10:05 02 | **Keynote speaker:** The ocean microbial-environmental interactome - Gipsi Lima-Mendez (University of Leuven / Flemish Institute for Biotechnology (VIB), Belgium)

10:35 *Coffee break and posters*

11:15 03 | Investigating the impacts of stress on the microbiome, immune status and disease resistance of Atlantic salmon - Tamsyn Uren Webster (Swansea University, UK)

11:35 04 | Dynamic changes in the strawberry rhizobiome in response to biochar - Caroline De Tender (ILVO, Belgium)

11:55 05 | The anaerobic digestion microbiome: between active and abundant microorganisms - Jo De Vrieze (Center for Microbial Ecology and Technology (CMET), Ghent University, Belgium)

12:15 Session 1 poster spotlights: P01, P02

12:25 *Lunch and posters*

13:40 06 | Automatic identification of causal mechanisms underlying experimentally evolved populations - Bram Weytjens (Department of Plant Biotechnology and Bioinformatics, Ghent University, Belgium)

14:00 07 | Ingestion of microplastics by the freshwater invertebrate *Chironomus sancticarloi*: effects on PBDE bioaccumulation and the gut microbiome - Dave Spurgeon (Centre for Ecology and Hydrology, UK)

14:20 08 | Genotype-dependent gut microbiota drives zooplankton resistance to toxic cyanobacteria - Ellen Decaestecker (Laboratory of Aquatic Biology, Department of biology, University of Leuven - Campus Kulak, Belgium)

14:40 Poster flash talks, sessions 1 - 3 (chaired by Peter Kille (Cardiff University, UK))

15:00 *Coffee break and posters*

Session 2: Evolutionary and ecological omics

Co-chairs: Oliver Windram (Imperial College London, UK) & Jana Asselman (Ghent University, Belgium)

15:40 Session intro (co-chairs)

15:45 09 | **Keynote speaker:** Signatures of adaptive evolution in Collembola Genomes - Dick Roelofs (VU Amsterdam, The Netherlands)

16:15 10 | Inferring demographic histories from whole genome data - Konrad Lohse (Institute for Evolutionary Biology, Edinburgh University, UK)

16:35 11 | Genetic and plastic responses in *Daphnia magna*: comparison of clonal differences and environmental stress induced changes in alternative splicing and gene expression - Jouni Kvist (Institute of Biotechnology, University of Helsinki, Finland)

16:55 12 | Hook a worm to catch a man - David W. Stanton (Cardiff University, Organisms and Environment Department, UK)

17:15 13 | Field-realistic levels of neonicotinoids: assessing gene-networks in honeybees - Reinhard Stöger (University of Nottingham, UK)

Socials

17:35 *Welcome reception (until 19:00)*