

ESBOC 2021 Schedule

All times are UK time

All plenary talks are 25 minutes plus 10 minutes discussion

All short talks are 10 minutes plus 5 minutes discussion

Thursday 20 May 2021

Welcome and history of ESBOC

9:00-9:15 Sabine Flitsch, Sarah O'Connor

Molecules and Metabolism from Plants

Chair: Sarah O'Connor

- 9:15-9:40 Emily Flashman, Oxford, UK
Thiol Dioxygenases: Oxygen Sensors in Plants and Humans
- 9:50-10:15 Evangelos Tatsis, SIPPE, Shanghai, China
The different evolution stories of clerodane diterpenoid metabolic pathway in Lamiaceae
- 10:25-10:35 E. C. O'Neill, University of Nottingham, UK
Antibiotics from pond scum – exploring natural product biosynthesis in algae
- 10:40-11:00 Coffee Break
- 11:00-11:10 Kristina Haslinger, Massachusetts Institute of Technology, Cambridge, USA;
University of Groningen, Groningen, The Netherlands
Rapid in vitro prototyping of O-methyltransferases for applications in recombinant pathways in Escherichia coli
- 11:15-11:40 Benjamin Lichman, York, UK
Omics approaches for elucidating complex alkaloid biosynthesis

Molecules and Metabolism from Microbes

Chair: James Redman

- 11:50-12:15 Barrie Wilkinson, JIC, UK
Bifurcation drives the evolution of assembly-line biosynthesis
- 12:25-12:35 Marcio V B Dias, University of Warwick, UK
Elucidation of structures and mechanisms of key enzymes from the gentamicin biosynthesis
- 12:40-13:30 Lunch on your own
- 13:30-13:55 Hajo Kries, HKI, DE
Biosynthetic design of nonribosomal peptides
- 14:05-14:15 Louis YP Luk, Cardiff University, UK
Chemical Synthesis and Racemic Crystallography of Bacteriocins reveals an unprecedented Salt Bridge Network.

14:20-14:45 Christine Beemelmans, HKI, DE
Structural Diversity and Functional Characterization of Bacterial Natural
Products Inducing Morphogenesis in Marine Eukaryotes

15:00 Talks end

20:00-21:30 Social Hour for Early Career Researchers: Bring your own Beer!
Hosted by the conference organizers

Friday 21 May 2021

Welcome and Announcements

9:00-9:15 Sarah O'Connor, Sabine Flitsch

Chemistry and Chemical Biology

Chair: Michael Webb

9:15-9:40 Ulrike Eggert, Kings, UK
The roles of lipids in cell biology

9:50-10:15 Carmen Galan, Bristol, UK
Ligands to modulate G-quadruplex DNA: A Journey from Sugars to
Photoresponsive ligands

10:25-10:35 Matthew D. Lloyd, University of Bath, UK
 α -Methylacyl-CoA racemase (AMACR): Chemical biology approaches to novel
prostate cancer drugs

10:40-11:00 Coffee Break

11:00-11:10 Manuel M. Müller, Department of Chemistry, King's College London, UK
Deciphering p53 signalling with protein semisynthesis

11:15-11:25 Biljana Mojsoska, Roskilde University, Roskilde, Denmark
Design and synthesis of peptoid nanomaterial -peptoid nanosheets

11:30-11:55 Anne-Kathrin Duhme-Klair, York, UK
Exploiting siderophores in the development of antimicrobials and artificial
enzymes

12:05-12:45 Lunch on your own

Enzymes and Biocatalysts and Pathways

Chair: Ben Schumann

12:45-13:10 Matthew Powner, UCL, UK
Prebiotic peptide synthesis by nitrile ligation in water

13:20-13:45 Florian Hollfelder, Cambridge, UK
How Do We Find New Functional Proteins in Sequence Space?

13:55-14:05 Freideriki Michailidou, University of Münster, Münster, DE
Engineered SAM synthetase allows reversible photo-caging of DNA

- 14:10-14:30 Coffee Break
- 14:30-14:55 Nigel Richards, Cardiff, UK
C-C Bond Formation in C-Nucleoside Antibiotic Biosynthesis
- 15:05-15:30 Nicholas Turner, Manchester, UK
Discovery & Synthetic Application of a New Redox Enzyme
- 15:40-15:45 Wrap up and Goodbye