

2024 Royal Society of Chemistry Chemical Biology and Bio-Organic Group Forum - Schedule

26th January 2024, Burlington House, RSC, London

9:30-10:15 Arrival and poster assembly

10:15-10:25 Welcome address

Session 1 – Mechanisms, Chair: Manuela Tosin

10:25-10:45 Lona Alkhalaf (U. Warwick) - Structural basis for [1,3]-phosphate shift in bacterial hormone biosynthesis

10:45-11:05 Vicki Emms (U. Leicester) - Jekyll and Hyde: using molecular tools to explore the duplicity of formaldehyde in biology

11:05-11:25 Rebecca Casson (John Innes Centre) - Biosynthesised Triterpenes Provide Novel Insights into Structure-Activity Relationships

11:25-11:55 break

Session 2 – Biotechnology, Chair: Robin Bon

11:55-12:15 Roger Rubio-Sanchez (U. Cambridge) - Using DNA nanostructures for lipid membrane biophysics and bioengineering in synthetic cell science

12:15-12:35 Elizabeth Lau (U. Edinburgh) - Biocompatible hydrogenation of styrene to ethylbenzene

12:35-12:45 Alexandra Carvalho (Almac Sciences) - Enzyme discovery and engineering at Almac

12:45-1:45 **Lunch and posters**

Session 3 – Nucleic acids, Chair: Zoë Waller

1:45-2:05 Ysobel R. Baker (U. Southampton) - Nucleic Acids with Artificial Amide Backbones

2:05-2:25 Christopher Grigsby (QUB) - Bio reducible polymer nanoparticles for CRISPR-Cas ribonucleoprotein delivery and genome editing

2:25-2:45 Zutao Yu (U. Cambridge) - Chem-map profiles drug binding to chromatin in cells

2:45-2:55 Luke McNeill (Oxford Nanopore Technologies) - An Overview of Oxford Nanopore Technologies and the chemical biology behind nanopore sequencing

2.55-3:55 **Poster session**

Session 4 – Peptides, Chair: Sam Thompson

3.55-4:15 Scott Lovell (U. Bath) - Screening Approaches for the Identification of Covalent Peptide Inhibitors

4:15-4:35 Diana Gimenez (U. Birmingham) - Design and development of TACC-3/Aurora-A PPI peptide inhibitors

4:35-5:20 Plenary Lecture - Matthew Powner (UCL) - On the chemical origins of biological peptides and the spontaneous differentiation of nitriles

5:20-5:30 Prize presentation

5:30-6:30 **Networking reception**, sponsored by Vertex

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