Bioorthogonal & Bioresponsive 2025 PROGRAMME Edinburgh, 5-6 June 2025

Thursday 5th June

14:00 Welcoming address
14:15 Plenary 1: Kanji Pu, Nanyang Technological University in Singapore
Next-generation optical imaging for early diagnosis and precision medicine
15:00 O1: Martijn Verdoes, Leiden University Medical Center, Netherlands
Ubi-tagged dendritic cell targeted vaccines induce potent T cell activation
15:15 O2: Katerina Gavriel, Radboud University, Netherlands
pH-guided triazine-thiol exchange for programmable site-selective cysteine modifications
15:30 Coffee break
16:00 Plenary 2: Gonçalo Bernardes, University of Cambridge, UK – sponsored by RSC Awards 2024 Corday-Morgan Mid-Career Prize for Chemistry
Translational chemical biology
16:45 Flash presentations (10 × 2 min each)
17:10 Poster session and social event – sponsored by RSC CBBG

Friday 6th June

09:20 Opening Day 2
09:30 Plenary 3: Neal Devaraj, University of California San Diego, USA
Tetrazine ligations: past, present, and future
10:15 Plenary 4: Tanja Weil, Max Planck Institute for Polymer Research, Germany
Bioorthogonal molecular switches to form synthetic nanostructures in living systems 11:00 Coffee break
11:30 O3: Saulius Klimašauskas, Vilnius University, Lithuania
Bioorthogonal methabolic pathways to study DNA methylomes
11:45 O4: Romen Carrillo, IPNA-CSIC, Spain
Control of tetrazine bioorthogonal reactivity by rotaxanation
12:00 O5: David Montoto, Universidad de Santiago de Compostela, Spain
Bond-forming reactions driven by bacteria redox metabolism
12:15 O6: William Tipping, University of Strathclyde, UK
Multicolour cellular imaging and sensing using stimulated Raman scattering (SRS) microscopy and multivariate analysis
12:30 Lunch break
14:00 Plenary 5: Carmen Galan, University of Bristol, UK
Controlling G4 DNA topology with small molecules: towards the development of novel therapeutics
14:45 Plenary 6: Thanh T. K. Nguyen, University College London, UK
Plasmonic and magnetic nanoparticles for biomedical application
15:30 Coffee break
16:00 O7: Kenward Vong, The Hong Kong University of Science and Technology, China
Development of gold-catalyzed dissociative bioorthogonal reactions for biological applications
16:15 O8: Stefano Fedeli, University of Milan, Italy
Self-assembled peptide-based nanocatalysts for bioorthogonal applications
16:30 O9: Xin-Yue Gao, University of Edinburgh, UK
Engineering selective palladium-binding proteins for catalytic transformations
16:45 O10: Kenneth Kam-Wing Lo, City University of Hong Kong, China
Leveraging bioorthogonal chemistry for the design of photofunctional transition metal complexes as activatable phototheranostics
17:00 Best Flash and Best Poster Award ceremony – sponsored by RSC CBBG
17:10 Closing remarks