56th ESBOC
Chemical Biology in Europe

Friday 19th May 2023

14:30	**Tea / Coffee**	
15:30		*Introduction*
15:35 – 16:05	Plenary – Manuela Tosin (University of Warwick)	*Adventures in Chemical Probing of Natural Product Biosynthesis*
16:05 – 16:25	Michael Webb (University of Leeds)	*New reagents for protein modification*
16:25	**Tea / Coffee**	
16:55 – 17:15	Richard Doveston (University of Leicester)	*Molecular Glues for the 14-3-3 Interactome*
17:15 – 17:45	Plenary – Stephan Hacker (Leiden University)	*Towards Covalent Inhibitors Addressing Diverse Amino Acids – Profiling the Proteome-Wide Selectivity*
17:45 – 18:05	Jonathan Dolan (Keele University)	*In silico docking, screening, and identification of small molecule GDP mannose dehydrogenase inhibitors*
18:05 – 18:25	Joseph Sharratt (University of Manchester)	*Homospermidine synthase facilitated N-cross coupling and applications in N-heterocycle synthesis*
18:30	**Dinner**	
20:00 – 20:30	Plenary – Ali Tavassoli (University of Southampton)	*Platforms for the generation and high-throughput screening of cyclic peptide libraries*
20:30 – 21:00	Plenary – Pedro Gois (Lisbon University)	*Engineering New Stimuli-Responsive Bioconjugates*

Saturday 20th May 2023

08:00	**Breakfast**	
08:50 – 09:10	Yi Jin (University of Manchester)	*Can MgF_3^- transition state analogue tell us more about GTPase/GAP complex without the arginine finger*
09:10 – 09:30	Shantanu Sen (IIT Kanpur)	*Overcoming Insulin's Thermolability: Pushing the Boundaries*
09:30 – 10:00	Plenary – Annemieke Madder (Ghent University)	*Furan- and TAD-based click and (photo)-click reactions for bio-orthogonal targeting and decoration of proteins and nucleic acids*
10:00	**Tea / Coffee**	
10:30 – 11:00	Plenary – Sébastien Papot (Université de Poitiers)	*The answer is blowin' in the wind…*
11:00 – 11:20	Stephen Cochrane (Queen's University Belfast)	*Bacterial polyprenyls: A rich source of underexploited antibiotic targets*
11:20 – 11:50	Plenary – Dominique Guianvarc'h (Université Paris-Saclay)	*Chemical tools to study unusual protein and DNA modifications in pathogens*
11:50 – 12:10	Sarah Barry (King's College London)	*A Bioinspired Route to Natural Product Antibiotic Libraries*
12:10 – 12:30	Sonia Khemaissa (Sorbonne Université)	*Towards a better understanding of the internalisation mechanisms of cell penetrating peptides*
12:45	**LUNCH**	***AFTERNOON FREE***
15:45	**Tea / Coffee**	
16:45 – 17:15	Plenary – Francesco Peri (University of Milano-Bicocca)	*Pharmacological modulation of Toll-Like Receptor 4 by small molecules: a new generation of therapeutics*
17:15 – 17:35	Daniela Verga (Institut Curie)	*Covalent selective G4 ligands for trapping G-quadruplex structures*
17:35 – 18:05	Plenary – Marina Rubini (University College Dublin)	*Semisynthetic approaches for studying post-translational modifications: lessons learnt from cytokines*
18:05 – 18:25	Peter 't Hart (Max Planck Institute for Molecular Physiology)	*Rationally designed stapled peptides inhibit cooperative RNA binding of Polypyrimidine tract-binding protein 1*
18:45	**Reception**	
19:15	**Dinner**	***Followed by Poster Viewings***

Sunday 21st May 2023

08:00	**Breakfast**	
09:00 – 09:30	Plenary – Kathrin Lang (ETH Zürich)	*Expanding the genetic code - new chemistries for biology*
09:30 – 09:50	Laura Rodríguez Pérez (University of Manchester)	*Enzymatic acylation of peptides*
09:50 – 10:10	Li Zhen (Francis Crick Institute)	*Engineering Human Xylosyltransferases to reveal proteoglycans by chemical proteomics*
10:10	**Tea / Coffee**	
10:40 – 11:10	Plenary – Megan Wright (University of Leeds)	*Stay on target? Developing chemical probes and defining their protein targets in living cells*
11:10 – 11:30	Lydia Barber (University of York)	*Investigating Current Strategies for N-Terminal Protein Modification*
11:30 – 12:00	Plenary – Robin Bon (University of Leeds)	*Chemical biology and structural pharmacology to support drug discovery*
12:00 – 12:20	Nicholas Yates (University of York)	*Incorporation and bioconjugation of aldehyde motifs into proteins and peptides*
12:30	**Lunch and Departure**	

Posters

Anti-cancer Activity of Nitric Oxide-releasing 2,6-Disubstituted Purine Derivatives in HepG2 Cells, Rakhi Bormon, Ekta Srivastava, Rafat Ali, Ashok Kumar, Sandeep Verma

Chemical activation for the thiol-ene labelling of deubiquitinases, André Campaniço, Joanna F. McGouran

Derivatized amino acids as a promising tool in chemical proteomic profiling exploiting biorthogonal reactions in studies of tubulin PTMs, Dmytro Makarov

Silicateins as Model Biocatalysts in Organosiloxane Chemistry, Yuqing Lu, Chisom S. Egedeuzu, H. Tanvir Imam, Matteo Trande, Lu Shin Wong

A chemical proteomic method to quantify protein S-acylation, Chloé Freyermuth, Emmanuelle Thinon

Towards novel chemical tools to study base-excision DNA repair, Eka Putra Gusti Ngurah Putu, Laurent Cattiaux, Sophie Bombard, Anton Granzhan

Homospermidine synthase facilitated N-cross coupling and applications in N-heterocycle synthesis, Joseph W. Sharratt, Sabine L. Flitsch

Engineering Human Xylosyltransferases to reveal proteoglycans by chemical proteomics, Zhen Li Lucia Di Vagno, Douglas Sammon, David Briggs, Erhard Hohenester, Ben Schumann

Palmitoylated Peptide Conjugate – A solution to combat insulin fibrillation, Shantanu Sen, Prerana Singh, Narendra Kumar Mishra, Subramaniam Ganesh, Sri Sivakumar, Sandeep Verma

Towards a better understanding of the internalisation mechanisms of cell penetrating peptides, Sonia Khemaissa, Astrid Walrant, Sandrine Sagan

Investigating Current Strategies for N-Terminal Protein Modification, L. J. Barber, P. Genever, C. D. Spicer

Tissue-specific Labelling of Glycoproteins in Drosophila melanogaster, Sophie Schmidt, Anna Cioce, Ben Schumann

Enzymatic acylation of peptides, Laura Rodríguez Pérez, Christian Schnepel, Antonio Angelastro, William Goundry, Sabine Flitsch

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