

ESBOC - ChemBioEurope Chemical Biology in Europe 13-15th May 2024



ESBOC

European Symposium on Biological and Organic Chemistry

ESBOC – ChemBioEurope Chemical Biology in Europe La Chambre d'Amour Anglet, France 13-15th May2024

Detailled programme

Chair: Helen Hailes Vice-Chair: Olalla Vázquez Former Chair: Boris Vauzeilles

Local organizer: Chemical Biology Division of the French Chemical Society – SCF-ChemBio



European Chemical Societies Publishing



Chemistry Europe

- 16 chemical societies
- From 15 European countries
- Which co-own **20** scholarly journals
- Over 19 million downloads in 2022
- Over **120,000** articles published since 1995
- With 128 Chemistry Fellows and 8 Honorary Fellows recognized for excellence in chemistry

Analysis & Sensing

Analytical Science Advances



Batteries & Supercaps

ChemBioChem

ChemCatChem

ChemElectroChem 6



ChemistryEurope



Chemistry - A European Journal

Chemistry - Methods



ChemistryOpen



ChemistrySelect

ChemMedChem

ChemPhotoChem

ChemPhysChem

ChemPlusChem

ChemSusChem

ChemSystemsChem

Electrochemical Science Advances



European Journal of Inorganic Chemistry

European Journal of Organic Chemistry



www.chemistry-europe.org



European Chemical Societies Publishing

published in partnership with





EuChemS, the European Chemical Society, aims to nurture a platform for scientific discussion and to provide a single, unbiased European voice on key policy issues in chemistry and related fields.

Representing more than 160,000 chemists from more than 40 Member Societies and other chemistry related organisations, EuChemS relies on a unique network of active researchers involved in all the fields of chemistry. Through this network, EuChemS organises several specialised academic conferences as well as the biannual EuChemS Chemistry Congress, the European congress of chemical sciences. EuChemS also promotes the role and image of the chemical sciences among the general public and policy-makers through social media, newsletters and through the organisation of conferences and workshops open to the society.

Through the promotion of chemistry and by providing expert and scientific advice, EuChemS aims to take part of the solution to today's major societal challenges.

For more information about the European Chemical Society (EuChemS), please visit www.euchems.eu or contact us at:

EuChemS aisbl Rue du Trône 62 1050 - Brussels Belgium

Phone: +32 2289 25 67 | +32 2289 26 90

http://on.fb.me/1B8Qa0n

Email: secretariat@euchems.eu

https://twitter.com/EuCheMS



EFMC is an independent association founded in 1969, representing 31 societies from 26 European countries, and more than 9000 scientists. It's main objective is to advance the science of medicinal chemistry and chemical biology.

18th EFMC Short Course on Medicinal Chemistry **Transformative Approaches in Medicinal Chemistry,** with Applications in Cancer Research Oegstgeest, The Netherlands | April 21-24, 2024



EFMC-ISMC 2024 XXVIII EFMC International Symposium on Medicinal Chemistry Rome, Italy | September 1-5, 2024



EFMC-YMCS 2024 11th EFMC Young Medicinal Chemists' Symposium Rome, Italy | September 5-6, 2024



EFMC-ISCB 2025 2nd EFMC International Symposium on Chemical Biology Basel, Switzerland | January 29-31, 2025



- The Nauta Pharmacochemistry Award for Medicinal Chemistry and Chemical Biology
- The "UCB-Ehrlich Award for Excellence in Medicinal Chemistry"
- Prous Institute Overton and Meyer Award for New Technologies in Drug Discovery
- The "EFMC-WuXi AppTec Award for Excellence in Chemical Biology"

Visit www.efmc.info/awards for more information

- EFMC Prizes for Young Medicinal Chemist or Chemical Biologist in Industry & Academia
- EFMC-YSN PhD Prize
- Symeres PhD Prize for Excellence in Chemistry in Life Sciences Research Visit www.efmc.info/prizes for more information

EFMC-YSN

The Young Scientists Network

Building a strong network at an early stage in your career is crucial!

The aim of the EFMC-YSN is to inspire, connect and provide opportunities to medicinal chemists and chemical biologists in their Early Career.

Visit www.efmc.info/ysn for more information

WEBSITE EFMC.INFO AND SUBSCRIBE TO THE MONTHLY NEWSLETTER

MedChemBioWatch





FOLLOW EFMC ON







57th ESBOC - ChemBioEurope

Chemical Biology in Europe

Monday 13th May 2024

14:30	Helen Hailes	Introduction
Chair	Helen Hailes	
14:35 – 15:05	Plenary 1- Chris Willis	Exploring and Exploiting
	(University of Bristol)	Biocatalytic Cyclisations
15:05 – 15:25	Adrian Sanchez-Fernandez	Modulating protein folding and
	(Universidade de Santiago de	function through the
	Compostela)	compositional design of deep
		eutectic solvents
15:55 – 16:15	Gareth Surman	Ancestral Sequence
	(University of Manchester)	Reconstruction To Unlock New
		Reactivities
16:15 – 16:45	Plenary 2- Maja Köhn	Chemical biology approaches to
	(University of Freiburg)	study phosphatases
16:45	Tea / Coffee	
Chair	Boris Vauzeilles	
16:45 – 17:15	Plenary 3 - Javier Montenegro	Supramolecular Dynamic
	(University of Santiago de	Chemistry for Membrane
	Compostela)	Transport and Biomimetic
		Systems
17:15 – 17:35	Mahri Park	Efficient semi-synthetic
	(University of Cambridge)	generation of peptide-containing
		Fc-fusion compounds
17:35 – 17:55	Mélanie Etheve-Quelquejeu	Synthesis of Bisubstrate
	(Université Paris Cité)	Analogues for RNA Methylation
		Studies
17:55 – 18:25	Plenary 4 - Lena Daumann	Similar but not the same: the
	(Heinrich-Heine-Universität	essential role of lanthanides for
	Düsseldorf)	bacteria
	The Chemistry Europe Lecture	
19:30 Dinner		

Tuesday 14th May 2024

08:00	Breakfast		
Chair	Ben Schumann		
08:50 – 09:10	Louis Luk (Cardiff University)	Synthesis of D-peptides for Mechanistic Analysis and Discovery of Binders in Natural Proteins	
09:10 - 09:30	Zhi Ming Cheng (University of Edinburgh)	Enzyme-Activatable Near-Infrared Hemicyanines as Modular Scaffolds for in vivo Photodynamic Therapy	
09:30 – 10:00	Plenary 5 - Russell Cox (Leibniz University)	One Step from Garbage: Total Synthesis and the Circular Economy	
10:00 – 10:20	Ewan Moody	PCR-based biocatalytic platform	
	(University of Manchester)	for oligonucleotide synthesis	
10:20	Tea / Coffee		
Chair	Olalla Vázquez		
10:50 – 11:20	Plenary 6 - Megan Wright (University of Leeds)	Targeting proteins in cells with covalent chemical probes	
11:20 – 11:40	Admir Salihovic (University of Strathclyde)	Establishing a Chemoenzymatic Platform for the Synthesis of Nucleoside Analogues	
11:40 – 12:10	Plenary 7 - Anna Barnard (Imperial College London)	Innovative Approaches to Targeting Protein-Protein Interactions	
12:10 – 12:30	Yu Wang (University College London)	A Transaminase-Mediated Aldol Reaction and Applications in Cascades to Styryl Pyridines	
12:45	LUNCH	AFTERNOON FREE	
16:00	Tea / Coffee		
Chair	Sabine Flitsch		
16:45 – 17:05	Christophe Biot (University of Lille)	Probing Bacterial Glycomes: Tagging, Detection, and Illumination with Chemical Reporter Strategies	
17:05 – 17:25	Chloé Freyermuth (CNRS, CBMN)	A chemical proteomic method to quantify protein S-acylation	
17:25 – 17:55	Plenary 8 - Thomas Carell (LMU München)	Non-canonical nucleosides and the chemistry of our genetic system	
18:00 – 19:25	Poster View	ings	
	1		
19:30	Dinner		

Wednesday 15th May 2024

08:00	Breakfast	
Chair	Mike Webb	
09:00 – 09:30	Plenary 9 - Vitor Pinheiro (KU Leuven)	Hacking microcin discovery in vivo
09:30 - 09:50	Jack Rowbotham (University of Manchester)	Re-wiring biocatalysis for atom- efficient reductive and oxidative transformations
09:50 – 10:10	Thomas Wharton (University of Cambridge)	Unlocking Amides: A General Method for the Self-Immolative Release of Amide-Containing Molecules
10:10	Tea / Coffee	
Chair	Louis Luk	
10:40 – 11:10	Plenary 10 - Sébastien Gouin (Nantes University)	Cell surfaces remodelling by tyrosine-click electrochemistry
11:10 – 11:30	Lu Shin Wong (University of Manchester)	Biocatalytic Oxidations for Analytical Chemistry, Synthesis and Desynthesis
11:30 – 12:00	Plenary 11 - Laurence Mulard (Institut Pasteur, Paris)	tbc
12:00 – 12:20	Fabien Thoreau (Université Poitiers)	Disulfide re-bridging and click chemistry - A nice wedding giving birth to innovative antibody formats
12:20 – 12:25	Conclusion	
12:30	Lunch and De	eparture

Posters

Strategies for the Optimisation of Biomolecule Modification, Lawrence Collins, Frank Sobott, Stuart Warriner & Michael Webb

Creating a Light-Emitting Protein, Liam Du Ross, Neil R. Thomas, Jan Knight & John Hunt

Inositol Pyrophosphate Prometabolites: Delivery Systems for Highly Dense Phosphorylated Second Messengers for Photochemical in vivo Release, Nikolaus Jork & Henning J. Jessen

Delivery of Caged Magic Spot Nucleotides into Escherichia coli, Christoph Popp, Isabel Prucker & Henning J. Jessen

Detection and Quantification of Negative Charged Signal Molecules, <u>Isabel Prucker</u>, Esther Lange, Martin Milanov & Henning J. Jessen

4/6-InsP7 – Rediscovery of an Old Friend in New Environment, Kevin Ritter, Henning J. Jessen

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

Exploring Aurora A kinase protein-protein interactions using peptide arrays, Martin Walko, Jennifer Miles, Vanda Gunning, Richard Bayliss, Megan Wright, Andrew J. Wilson

Photoaffinity Labelling using the Fungicide Mandipropamid as a Probe, <u>Jacob Webb</u>, Jack White, Corinna Schiano-di-Cola, Urvashi Thacker, John Sinclair, Tom Bennet, Michael Webb & Megan Wright

Chemically Modified HMAs for Leukemia Treatment PEG-cAzadC; A Promising Next Generation Nucleoside Drug, Emmanuel A. Bisong, Elsa Peev, Corinna Pleintinger, Matthias Heiss, Franziska Traube & Thomas Carell

Sponsors











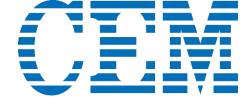












We Simplify Science



