



ChemBioParis2025 - ICBS/ECBS2025

Monday/Day 1: Oct 6 – **ICBS Trainee Symposium**

Start	End	Talk	Comment	
9:00	9:10	Welcome remarks (10')		
9:10	9:25	<i>β-D-Arabinofuranosyl Cyclitol Aziridines as First-In-Class Covalent and Selective GBA2-Binding Scaffold</i> Rob Lammers, Leiden University, Netherlands		
9:25	9:40	<i>Towards the enzymatic labelling of oligonucleotides with triantennary N-acetyl galactosamine</i> Pierre Nicolas Bizat, Institut Pasteur – Paris, France		
9:40	9:55	<i>Phospholipid-like Molecules: Engineering Functional Compartments for the Spatial Control of Biochemical Processes</i> Federica A. Souto-Trinei, Centro Interdisciplinar de Química e Biología, Universidade da Coruña, Spain		
9:55	10:20	Coffee break (25')		
10:20	10:35	<i>Covalent Modification of Glutamic Acid Inspired by HaloTag Technology</i> Ruirui Zhang, Max Planck Institute of Molecular Physiology – Dortmund, Germany		
10:35	10:50	<i>Artificial internalizing receptors for depletion of extracellular target proteins</i> Mikkel Høj Nielsen, Aarhus University, Denmark		
10:50	11:05	<i>Development of duomyc: a synthetic cell penetrant miniprotein that efficiently inhibits the oncogenic transcription factor myc</i> Brecht Ellenbroek, Leiden University, Netherlands		
11:05	12:05	Panel discussion	Chair: Bridget Wagner	
12:05	13:30	Lunch (85')		
13:30	13:45	<i>Deciphering Protein-Ligand Interactions Using Protein Language Models</i> Pham Khanh-Chi Nguyen, Univ. Grenoble Alpes, France		

13:45	14:00	<i>New Fluorogenic Triazinium Probes for Bioimaging</i> Veronika Šlachtová, Institute of Organic Chemistry and Biochemistry – Prague, Czech Republic		
14:00	14:15	<i>Illuminating bacterial physiology – A ratiometric pH sensor for Gram-positive and Gram-negative bacteria</i> Dorothea Kossmann, University of Zurich, Switzerland		
14:15	14:30	<i>Unveiling the structure-fluorogenic property relationship of monochromophoric bioorthogonal tetrazine probes</i> Hayoung Son, Seoul National University, Korea		
14:30	14:50	SCF-ChemBio PhD Thesis Award 2025: <i>Engineering and applications of chemogenetic fluorescent tags for advanced biological imaging</i> Lina El Hajji, LBM, Sorbonne Université, Paris, France		
14:50	15:35	Trainee Symposium Keynote lecture <i>Title</i> Raphaël Rodriguez, Institut Curie, Paris, France		

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Start	End	Talk	Comment	
17:00	17:10	Conference Welcome (10')		
17:10	18:00	Opening Keynote lecture (50') <i>Chemical biology of the genome</i> Sir Shankar Balasubramanian, University of Cambridge, UK	Chair: Boris Vauzeilles	
18:00	19:30	Networking & Welcome Drinks		



Tuesday/Day 2: Oct 7

Start	End	Talk	Comment	
9:00	9:45	Keynote lecture (45') <i>Pseudo Natural Products – Chemical Evolution of Natural Product Structure</i> Herbert Waldmann, Max Planck Institute of Molecular Physiology, Dortmund, Germany	Chair: Bahne Stechmann	
9:45	10:45	Session 1: The contribution of Natural Products to Chemical Biology <i>Session Chair: Bahne Stechmann, EU-OPENSREEN</i>		
9:45	10:05	<i>Arctic marine bioactive compounds as a starting point for chemical optimization towards clinical candidates</i> Jeanette Andersen, University of Tromsø, Norway		
10:05	10:25	<i>Natural Products in Modern Crop Protection Research</i> Olivier Loiseleur, Syngenta, Switzerland		
10:25	10:45	<i>Exploring the druggability of hTOM70 as a host-oriented broad-spectrum antiviral target via microbial natural product HTS</i> Francisco Castillo, MEDINA, Granada, Spain		
10:45	10:50	Organiser presentation <i>SCF-ChemBio, Boris Vauzeilles</i>		
10:50	11:15	<i>Coffee break (25')</i>		
11:15	12:00	Keynote lecture (45') <i>Sequence-based design of small molecules targeting RNA structure</i> Matthew Disney, Scripps Research Institute, Jupiter, USA	Chair: Douglas Auld	
12:00	13:00	Session 2: Targeting RNA mechanisms <i>Session Chair: Douglas Auld, Novartis Institutes for BioMedical Research, Cambridge, USA</i>		
12:00	12:20	<i>Targeting RNA mechanisms</i> Katlin Massirer, (Center for Medicinal Chemistry) CQMED, University de Campinas, Brazil		
12:20	12:40	<i>Specific splicing correction by small molecules and 5'-splice site bulge repair mechanism</i>		

		Sébastien Campagne, INSERM, ARNA unit, Bordeaux, France		
12:40	13:00	<i>Illuminating Life: Precision Control of RNA with Light</i> Liang Cheng, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China		
13:00	13:05	Organiser presentation <i>International Chemical Biology Society (ICBS), Douglas Auld</i>		
13:05	14:30	Lunch (85')		
14:30	15:15	ICBS Global Lectureship Award (45') <i>Speaker and Talk title to be announced</i>	<i>Chair: Douglas Auld</i>	
15:15	16:15	Session 3: Chemical inducers of proximity – Hybrigenics session <i>Session Chair: Philip Gribbon, EU-OPENSOURCE & ITMP Fraunhofer</i>		
15:15	15:35	<i>Targeting the Ubiquitin and Autophagy networks</i> Ivan Đikić, Goethe Universität Frankfurt, Germany		
15:35	15:55	<i>Interrogating the Druggable Proteome with Proximity Pharmacology</i> Fleur Ferguson, University of California San Diego, USA		
15:55	16:15	<i>Identification of KRAS PROTACs Targeting GTP-loaded Alleles</i> Giorgia Kidd, Centre for Targeted Protein Degradation, University of Dundee, Dundee, UK		
16:15	16:20	Spotlight <i>Bioorganic Gordon Research Conference</i> <i>Damian W. Young</i>		
16:20	16:45	Coffee break (25')		
16:45	17:45	Session 4: EFMC - Genome base editing and precision chemistry for therapy <i>Chair: Beatriz de Pascual-Teresa, Universidad CEU San Pablo, Madrid</i>		
16:45	17:05	<i>Targeting RNA by alkyltransferase ribozymes</i> Claudia Hobartner, Universität Würzburg, Germany		
17:05	17:25	<i>Talk title</i> Chase Beisel, Helmholtz Institute for RNA-based Infection Research (HIRI), Würzburg, Germany		
17:25	17:45	<i>Engineered Protein Cages for RNA Delivery</i> Angela Steinauer, Ecole Polytechnique Fédérale de Lausanne (EPFL) – Lausanne, Switzerland		
17:45	18:05	Special Guests – Art & Science		

		<i>Chembioart: Exploring the Aesthetic and Narrative Dimensions of Chemical Biology</i> Marie Hinnebo – Christophe Biot, Univ. Lille, France		
18:05	19:20	Poster Session 1 (75')		



Wednesday/Day 3: Oct 8

Start	End	Talk	Comment	
9:00	9:45	Keynote lecture (45') <i>Reimagining Druggability using Chemoproteomic Platforms</i> Daniel Nomura, University of California, Berkeley, USA	Chair: Philip Gribbon	
9:45	10:45	Session 5: Chemoproteomics-enabled Drug Discovery <i>Session Chair: Philip Gribbon, EU-OPENSSCREEN & ITMP Fraunhofer</i>		
9:45	10:05	<i>Spatial Chemical Biology and Spatial Metabolomics using Mass Spectrometry</i> Carsten Hopf, Center for biomedical Mass Spectrometry and Optical Spectroscopy (CeMOS), Hochschule Mannheim, Germany		
10:05	10:25	<i>Multimodal and Proteome-Wide MS-based Deconvolution of Drug Targets and Mechanisms of Action with Validation and Characterization of Drug-Target Interaction</i> Massimiliano Gaetani, Karolinska Institute, Stockholm, Sweden		
10:25	10:45	<i>High-Throughput Fragment-Based Chemical Proteomics Reveals Differentially Ligandable Targets in Lung Cancer Subtypes</i> Debojit Bhattacharjee, Moffitt Cancer Center, Tampa, USA		
10:45	10:50	Organiser presentation <i>EU-OPENSSCREEN, Bahne Stechmann</i>		
10:50	11:15	<i>Coffee break (25')</i>		
11:15	12:00	Keynote lecture (45') – Syngenta lecture <i>Activity-Based Sensing: Leveraging Chemical Reactivity to Study Biology at the Atomic Scale</i> Christopher Chang, University of Berkeley, USA	Chair: Bridget Wagner	
12:00	13:00	Session 6: Compound profiling for drug discovery <i>Session Chair: Bridget Wagner, Arena BioWorks</i>		
12:00	12:20	<i>Large scale Cell Painting dataset enables prediction of chemical compound properties</i> Christopher Schmied, EU-OPENSSCREEN		

12:20	12:40	<i>Cell Painting for cytotoxicity and mode-of-action analysis in liver-relevant cell lines</i> Jess Ewald, EMBL-EBI, UK		
12:40	13:00	<i>Functional Precision Medicine through Ex Vivo Drug Sensitivity Testing</i> Päivi Tammela, University of Helsinki, Finland		
13:00	13:05	Organiser presentation <i>ChemBioLife: EuChemS Division of Chemical Biology and Chemistry in Life Sciences,</i> <i>Francesco Peri</i>		
13:05	14:30	Lunch (85')		
14:30	15:15	Keynote lecture (45') <i>Rolling Out Glycan Assembly: A Tale of Two Topologies</i> Barbara Imperiali, MIT, Cambridge, USA	Chair: Sonsoles Martín-Santamaría	
15:15	16:15	Session 7: Computational and AI methods Session Chair: Sonsoles Martín-Santamaría, Centro de Investigaciones Biológicas Margarita Salas, CSIC		
15:15	15:35	<i>Conformational flexibility of (bio)molecules: Combining experiments and computation</i> Sereina Riniker, ETH Zürich, Switzerland		
15:35	15:55	<i>Predicting protein-ligand, protein-protein and protein-membrane interactions using molecular simulations and AI</i> Zoe Cournia, Academy of Athens, Greece		
15:55	16:15	<i>Molecular Tweezers in Biomedical Interventions: A Computational Perspective on Their Possible Versatile Therapeutic Applications</i> <u>Sandip Paul</u> , IIT Guwahati, Assam, India		
16:15	16:20	Spotlight <i>ChemBioFrance</i> Florence Mahuteau		
16:20	16:45	Coffee break (25')		
16:45	17:45	Session 8: Chemical glycobiology Session Chair: Boris Vauzeilles, CNRS, Gif-sur-Yvette, France		
16:45	17:05	<i>Chemical Precision Tools to Dissect Protein Glycosylation</i> Ben Schumann, Francis Crick institute, London, UK		
17:05	17:25	<i>Electrochemical Wiring of Sugars onto Proteins and Living Cells</i> Sébastien Gouin, Nantes Université, France		
17:25	17:45	<i>Dynamic imaging of plant cell wall pectic polysaccharides by metabolic click-mediated labeling</i> Arnaud Lehner, Université de Rouen Normandie, Rouen, France		
17:45	19:00	Poster Session 2 (75')		



Thursday/Day 4: Oct 9

Start	End	Talk	Comment	
9:00	9:45	Keynote lecture (45') <i>The many guises of reactive metabolite signaling</i> Yimon Aye, EPFL, Lausanne, Switzerland	Chair: Francesco Peri	
9:45	10:45	Session 9: Chemistry in vivo Session Chair: Francesco Peri, Bicocca University		
9:45	10:05	<i>Fluorescent Probes for Translational Bioimaging</i> Marc Vendrell, University of Edinburgh, UK		
10:05	10:25	<i>Orthogonal Molecular Toolkits for Precison Bio-Imaging & Therapeutic ENCTACs Manipulation</i> Xing Bengang, NTU Singapore		
10:25	10:45	<i>GPCR-targeted imaging and manipulation of homeostatic microglia in living systems</i> Swathi Vanaja Chandrasekharan, Tata Institute of Fundamental Research Hyderabad, India		
10:45	10:50	Spotlight <i>Société de Chimie Thérapeutique</i> Yann Foricher, Sanofi, Vitry-sur-Seine		
10:50	11:15	<i>Coffee break (25')</i>		
11:15	12:00	Keynote lecture (45') <i>Strategies to modulate the conformation and function of RNA with small molecules</i> Amanda Hargrove, University of Toronto, Canada	Chair: Francesco Peri	
12:00	13:00	Session 10: Activity-based probes Session Chair: Sébastien Papot, Université de Poitiers, France		
12:00	12:20	<i>Found in translation: new target binding sites for cyclic peptides</i> Louise Walport, Francis Crick institute, London, UK		
12.20	12.40	<i>Chemical probes targeting β-lactam-binding proteins</i>		

		Mélanie Ethève-Quelquejeu, Université Paris Descartes, France		
12:40	13:00	<i>Design of NIR fluorophores for two-photon absorption</i> Kevin Renault, Institut Curie, Orsay, France		
13:00	13:05	Spotlight <i>Société Française de Biochimie et Biologie Moléculaire</i> <i>Hélène Munier-Lehmann, Université Paris Cité – Institut Pasteur</i>		
13:05	14:30	Lunch (85')		
14:30	15:00	ICBS Annual Business Meeting (30')		
15:00	16:00	Session: ICBS Young Chemical Biologist - Rising Stars	Chair: Douglas Auld / Bridget Wagner	
15:00	15:20	Session 11: Talk 1 to be announced (20')		
15:20	15:40	Session 11: Talk 2 to be announced (20')		
15:40	16:00	Session 11: Talk 3 (to be announced 20')		
16:00	16:45	Keynote lecture (45') <i>Induced Proximity-Pharmacology: PROTACs/Molecular Glue Degradators and beyond</i> Alessio Ciulli, University of Dundee, UK	Chair: Francesco Peri	
16:45	17:55	EuChemS ChemBioLife and SCF-ChemBio Awards		
16.45	17.05	EuChemS ChemBioLife Award 2023: <i>Manipulating Peptides and Proteins with Light</i> Nadja A. Simeth-Crespi, Georg-August-University of Göttingen, Germany		
17.05	17.25	EuChemS ChemBioLife Award 2024: Decoding the catalytic mechanism of RNA m3C methyltransferases with molecular simulations Jana Aupič, CNR-IOM Institute, Trieste, Italy		
17.25	17.45	SCF-ChemBio Young Researcher Award 2024: <i>Synthesis and application of fluorescent antimicrobial peptides</i> Julie Karpenko, LIT, Université de Strasbourg, France		
17.45	18.05	SCF-ChemBio Young Researcher Award 2025: <i>Real-time imaging of mitochondrial reductase-mediated chemical transformations with smart fluorogenic probes</i> Arnaud Chevalier, CNRS-ICSN, Gif-sur-Yvette, France		
18.05	18:30	Awards and Conclusion Remarks (25') Boris Vauzeilles		