

Thursday November 16, 2023

Registration

Opening Ceremony

Dr Yves P. AUBERSON (NOVARTIS & EFMC, Basel, Switzerland)
Prof. Maja KÖHN (UNIVERSITY OF FREIBURG, Freiburg, Germany)

PL01 - Moving Undruggable Discoveries into the Drug Discovery Pipeline with Chemical Biology

Dr John TALLARICO
(NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, Cambridge, United States)

Session 1: Chemical Proteomics in Drug Discovery

Session Chair

Dr Sebastian ESSIG
(BAYER AG, Wuppertal, Germany)

KL01 - Chemoproteomics Approaches and their Contributions to Drug Discovery

Dr Marcus BANTSCHKEFF
(CELLZOME/GSK, Heidelberg, Germany)

Coffee Break, Networking & Exhibition

IL01 - Towards Covalent Inhibitors Addressing Diverse Amino Acids

Dr Stephan HACKER
(LEIDEN UNIVERSITY, Leiden, The Netherlands)

IL02 - ABPP and its Impact on Drug Discovery - Successful Examples from the MAGL Program

Dr Uwe GRETHER
(F. HOFFMANN-LA ROCHE, Basel, Switzerland)

OC01 - Lessons for Covalent Drug Development from Deep Chemoproteomic Profiling of Approved Covalent Drugs

Dr Micah NIPHAKIS
(LUNDBECK, San Diego, CA, United States)

Lunch, Networking & Exhibition

Company Workshop by WuXi AppTec Emerging Modalities in Drug Discovery

Dr Tao GUO
(WUXI APPTEC, St Pauls, United States)

Session 2: Computational Chemical Biology (LS-EuChemS Session)

Session Chair

Dr Sonsoles MARTIN-SANTAMARIA
(CIB-CSIC, Madrid, Spain)

KL02 - Unravelling the Molecular Mechanism of Pre-mRNA Splicing via All-atom Simulations

Programme

Prof. Alessandra MAGISTRATO
(CNR-IOM, Trieste, Italy)

IL03 - Challenges in Simulating Molecular Recognition Using Coarse-grain Models

Prof. Manuel MELO
(UNIVERSITY NOVA DE LISBOA, Oeiras, Portugal)

OC02 - Molecular Binding Studies in G Protein Coupled Receptors: Insights for Drug Discovery

Prof. Vittorio LIMONGELLI
(UNIVERSITÀ DELLA SVIZZERA ITALIANA USI, Lugano, Switzerland)

Coffee Break, Networking & Exhibition

Session 3: Chemically Induced Proximity

Session Chair

Prof. Gonçalo BERNARDES
(UNIVERSITY OF CAMBRIDGE & IMM LISBOA, Cambridge, United Kingdom)

OC03 - Molecular Glues for the 14-3-3 Interactome

Dr Richard DOVESTON
(UNIVERSITY OF LEICESTER, Leicester, United Kingdom)

IL04 - Tumor Targeting

Prof. Dario NERI
(ETH ZÜRICH, Zürich, Switzerland)

IL05 - Small Molecule Therapeutics Targeting Fibroblast Activation Protein in the Tumor Microenvironment

Dr Samuele CAZZAMALLI
(PHILOCHEM AG, Otelfingen, Switzerland)

KL03 - Chemogenetic and Optogenetic Technologies for Probing Molecular and Cellular Networks (*Virtual Lecture*)

Prof. Alice TING
(STANFORD UNIVERSITY, Stanford, United States)

Poster Session I (Odd), Networking & Exhibition

Welcome Reception & Poster Session I (Odd), Networking & Exhibition

End of the Day

Friday November 17, 2023

Chair

Prof. Gianluca SBARDELLA
(UNIVERSITY OF SALERNO, Fisciano, Italy)

PL02 - Ribozymes Meet RNA Modifications

(SOPLVIAS AG (WAS FUJIFILM))
Prof. Claudia HÖBARTNER (UNIVERSITY OF WÜRZBURG, Würzburg, Germany)

Session 4: Target Engagement and Mechanism of Action Determination

Session Chair

Dr Andrew ZHANG
(ASTRAZENECA, Waltham, United States)

KL04 - Mechanistic Insight in Drug Discovery: Past Tense of Future Direction? (*Virtual Lecture*)

Dr Rachel GRIMLEY
(CANCER RESEARCH HORIZONS (CANCER RESEARCH UK), Cambridge, United Kingdom)

Coffee Break, Networking & Exhibition

IL06 - Biophysical Proteomics

Dr Mikhail SAVITSKY
(EUROPEAN MOLECULAR BIOLOGY LABORATORY, Heidelberg, Germany)

IL07 - Proteomics Profiling of PROTACs and E3 Modulators to Identify Mechanistic Biomarkers and Substrates

Dr Meha SINGH
(ASTRAZENECA, Waltham, United States)

OC04 - Morphological Profiling of Small Molecules Using the Cell Painting Assay

Dr Slava ZIEGLER
(MAX PLANCK INSTITUTE OF MOLECULAR PHYSIOLOGY, Dortmund, Germany)

Lunch, Networking & Exhibition

Session 5: Protein Conformations: Beyond the Ground State

Session Chair

Dr Wolfgang JAHNKE
(NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, Basel, Switzerland)

KL05 - Evolution of Energy Landscapes and its Exploitation for Drug and Enzyme Design

Prof. Dorothee KERN
(BRANDEIS UNIVERSITY, Waltham, United States)

IL08 - Low Molecular Weight Inhibitors of IL-1?: from a 19F NMR Fragment Hit to a Cellular Proof of Concept

Dr Anna VULPETTI
(NOVARTIS, Basel, Switzerland)

IL09 - NMR Provides Unique Insight into the Role of Disorder in Highly Dynamic Viral Replication Assemblies

Programme

Prof. Martin BLACKLEDGE
(INSTITUT DE BIOLOGIE STRUCTURALE (IBS), Grenoble, France)

OC05 - Spatiotemporally Controlled Generation of NTPs as A Versatile Tool for Single-Molecule Studies

Prof. Sebastian DEINDL
(UPPSALA UNIVERSITY, Uppsala, Sweden)

Coffee Break, Networking & Exhibition

Session 6: Targeting Metabolism (ICBS Session)

Session Chair

Prof. Zaneta NIKOLOVSKA-COLESKA
(UNIVERSITY OF MICHIGAN, Ann Arbor, United States)

KL06 - Understanding the Role of Metabolism in Cancer

Prof. Matthew G. VANDER HEIDEN
(MIT, Cambridge, United States)

IL10 - Chemical Biology of Sterol-mediated Processes

Dr Luca LARAIA
(TECHNICAL UNIVERSITY OF DENMARK, Kgs. Lyngby, Denmark)

OC06 - The Hidden Activator Within the Inhibitor: Regulated Tissue-Selective Inhibition and Activation of the Sugar Tolerance Transcription Factor ChREBP

Dr Maren HEIMHALT
(LUDWIG MAXIMILIAN UNIVERSITÄT, Planegg-Martinsried, Germany)

Poster Session II (Even), Networking & Exhibition

End of the Day

Symposium Banquet

Saturday November 18, 2023

Chair

Prof. Dennis GILLINGHAM
(UNIVERSITY OF BASEL, Basel, Switzerland)

PL03 - The Second Dimension of the Genetic Code

Prof. Thomas CARELL
(LUDWIG-MAXIMILIANS-UNIVERSITY, München, Germany)

Session 7: Chemical Immunology & Checkpoint Inhibitors

Session Chair

Prof. Nina HARTRAMPF
(UNIVERSITY OF ZURICH, Zürich, Switzerland)

KL07 - Fluorescent Amino Acids and Peptides for Translational Imaging of Infection and Inflammation in Humans

Prof. Marc VENDRELL
(UNIVERSITY OF EDINBURGH, Edinburgh, United Kingdom)

Coffee Break, Networking & Exhibition

IL11 - Chemoenzymatic and Metabolic Protein Labeling Strategies

Dr Kimberly BONGER
(Radboud University, Nijmegen, The Netherlands)

IL12 - Chemical Immunology Tools for Synthetic Adjuvant and Vaccine Development

Dr Alberto FERNÁNDEZ-TEJADA
(CIC BIOGUNE, Derio (Bizkaia), Spain)

OC07 - Collectin-11 Antagonists in a Therapeutic Approach to Minimize Complement-Mediated Immune Injury

Dr Rachel HEVEY
(UNIVERSITY OF BASEL, Basel, Switzerland)

Lunch, Networking & Exhibition

Session 8: New Understandings of Post-translational Protein Modifications

Session Chair

Prof. Christian A. OLSEN
(UNIVERSITY OF COPENHAGEN, Copenhagen, Denmark)

KL08 - Chemical Approaches to Studying Chromatin

Prof. Tom MUIR
(PRINCETON UNIVERSITY, Princeton, United States)

IL13 - Beyond Phosphorylation – Protein Pyrophosphorylation by Inositol Pyrophosphate Messengers

Prof. Dorothea FIEDLER
(LEIBNIZ-FORSCHUNGSINSTITUT FÜR MOLEKULARE PHARMAKOLOGIE (FMP), Berlin, Germany)

Programme

IL14 - Decoding PTM Signaling from Chromatin to the Cytoskeleton

Prof. Beat FIERZ
(ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE, Lausanne, Switzerland)

OC08 - PhotoCrot: a Precise Photo-Chemical Approach to Selectively Identify Crotonylated Proteins

Dr Rita PETRACCA
(UTRECHT UNIVERSITY, Utrecht, The Netherlands)

Coffee Break, Networking & Exhibition

Session 9: EFMC-WuXi AppTec Award for Excellence in Chemical Biology

Session Chair

Prof. Rui MOREIRA
(UNIVERSITY OF LISBON, Lisbon, Portugal)

Award Ceremony

Prof. Rui MOREIRA (UNIVERSITY OF LISBON, Lisbon, Portugal)
Dr Tao GUO (WUXI APPTEC, St Pauls, United States)

PL04 - EFMC-WuXi AppTec Award for Excellence in Chemical Biology Lecture: Translational Chemical Biology

Prof. Gonçalo BERNARDES
(UNIVERSITY OF CAMBRIDGE & IMM LISBOA, Cambridge, United Kingdom)

Poster Prizes Ceremony

Prof. Yimon AYE
(ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL), Lausanne, Switzerland)

Closing Remarks

Dr Yves P. AUBERSON
(NOVARTIS & EFMC, Basel, Switzerland)

End of the Symposium