

Confirmed Speakers

Keynote Lectures

X-ray Crystallography: an Ever-Reemerging Technology (KN02)



Dr Gerard BRICOGNE
(GLOBAL PHASING LTD., Cambridge, United Kingdom)

The Discovery of ABL001, an Allosteric Inhibitor of BCR-ABL (KN01)



Dr Sandra JACOB
(NOVARTIS, Basel, Switzerland)

Session 1: Emerging Technologies

A 5-Year Retrospective on Non-Covalent Mass Spectrometry Applied to Drug Discovery (OC01)



Dr Mathias ANTOINE
(INSTITUT DE RECHERCHES SERVIER, Croissy-sur-Seine, France)

Maldi Mass Spectrometry: From Imaging to Ultra-High-Throughput-Screening (Maldi-Uhts) (OC02)



Dr Jens FUCHSER
(BRUKER DALTONICS, Bremen, Germany)

Mass Spectrometry and its Role in Drug Discovery (PL01)



Prof. Carol ROBINSON
(UNIVERSITY OF OXFORD, Oxford, United Kingdom)

Exploring GPCR and Membrane Protein Dynamics with Solution NMR and X-ray Free-Electron Lasers (PL02)



Prof. Gebhard F.X. SCHERTLER
(PAUL SCHERRER INSTITUTE, Villigen, Switzerland)

Session 2: Biophysics for Challenging Targets

New Strategy for Challenging Targets: Time Resolved Molecular Interaction Analysis on Living Cells Using LigandTracer (PL03)



Dr Karl ANDERSSON
(RIDGEVIEW INSTRUMENTS AB, Vänge, Sweden)

Thermodynamics of the Ribosome Translation Machinery (OC04)

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Dr Eric ENNIFAR
(CNRS, Strasbourg, France)

Combining Binding Thermodynamics and Kinetic Binding Mechanisms to Assess The Selectivity of Inhibitors of Histone Deacetylase-Like Amidohydrolases (OC03)



Mr Christian MEYNER
(UNIVERSITY OF APPLIED SCIENCES DARMSTADT, Darmstadt, Germany)

Probing the Structure and Dynamics of Proteins with Single-Molecule Spectroscopy (PL04)



Prof. Ben SCHULER
(UNIVERSITY OF ZURICH, Zurich, Switzerland)

Session 3: Special Focus on Cryo-EM

Cullin-Ring Ubiquitin E3 Ligase Regulation by the Cop9 Signalosome (OC05)



Dr Simone CAVADINI
(FRIEDRICH MIESCHER INSTITUTE FOR BIOMEDICAL RESEARCH, Basel, Switzerland)

High-Resolution Electron Cryo-Microscopy of Membrane Protein Complexes (PL05)



Prof. Werner KÜHLBRANDT
(MAX PLANCK INSTITUTE OF BIOPHYSICS, Frankfurt am Main, Germany)

Visualizing Dynamic Macromolecular Complexes at High Resolution by Cryo-EM (PL06)



Prof. Holger STARK
(MAX PLANCK INSTITUTE FOR BIOPHYSICAL CHEMISTRY, Göttingen, Germany)

EM in Industry: Expectations and Perspectives (PL07)



Dr Denis ZEYER
(NOVALIX, Illkirch, France)

Session 4: Computational Biophysics

Structural Stability of Protein-Ligand Complexes: Applications in Virtual Screening (PL08)



Prof. Xavier BARRIL
(BARCELONA UNIVERSITY, Barcelona, Spain)

Uncoupling the Structure-Activity Relationships of Beta-2 Adrenergic Receptor Ligands from Membrane Binding (OC07)

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Dr Callum DICKSON
(NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, Cambridge, United States)

Diverse Applications of Free Energy Calculations in Drug Discovery (OC06)



Dr David RINALDO
(SCHRÖDINGER, Mannheim, Germany)

Computational Exploration of Protein Dynamics for Ligand Design (PL09)



Prof. Rebecca WADE
(HEIDELBERG INSTITUTE FOR THEORETICAL STUDIES AND HEIDELBERG UNIVERSITY,
Heidelberg, Germany)

Session 5: Cellular Biophysics

Insulin Degrading Enzyme: Drug Target Engagement in Hela Cells by Cellular Thermal Shift Assay (OC08)



Mr Adrien HERLEDAN
(INSTITUT PASTEUR DE LILLE, Lille, France)

The Life and Death of Cells: Cellular Bioenergetics for Better Phenotype Based Drug Discovery (PL10)



Dr Magnus JANSSON
(SYMCEL SVERIGE AB, Spanga, Sweden)

Imaging of G-protein Coupled Receptors while Quantifying their Ligand-binding Free Energy Landscape to Multiple Ligands (PL11)



Prof. Daniel MÜLLER
(ETH ZÜRICH, Basel, Switzerland)

Session 6: Biophysics for Biotherapeutics

The Neonatal Fc Receptor (FcRn) Binds Independently to Both Sites of the IgG Homodimer with Identical Affinities (PL12)



Dr Yasmina ABDICHE
(RINAT-PFIZER, San Francisco, United States)

Analysis of Bispecific Interactions with the Switchsense Biosensor (OC09)



Dr Ulrich RANT
(DYNAMIC BIOSENSORS GMBH, Martinsried/Planegg, Germany)

Combinatorial SEC, AUC and TEM Approach for the Characterization of mAb Dimers (PL13)

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Dr Arne RUFER
(F. HOFFMANN-LA ROCHE LTD., Basel, Switzerland)

Kinetic Excursion Analysis (Kinexa) of Avidity Enhancement of a Multi-Valent Adnectin Binding to Clustered Receptors on Cho Cells (OC10)



Dr Lumelle SCHNEEWEIS
(BRISTOL-MYERS SQUIBB, Princeton, NJ, United States)