

## 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)

## Confirmed Speakers



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)**

## Confirmed Speakers



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)

# 3rd NovAliX Conference

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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)