

# 2nd NovAliX Virtual Conference

## Program

### Tuesday March 9, 2021

#### Session Opening

**19:00 Opening Address by Conference Chairman**

Dr Jean-Paul RENAUD  
(URANIA THERAPEUTICS, Ostwald, France)

#### Session Session 1: Hot Topic - COVID-19

**19:10 Introduction by the Session Chair**

Dr Chaohong SUN  
(ABBVIE, North Chicago, United States)

**19:15 Structural and Functional Analysis of the D614G SARS-CoV-2 Spike Protein Variant (OC01)**

Dr Xue WANG  
(THERMO FISHER SCIENTIFIC, Eindhoven, The Netherlands)

**19:30 SARS-CoV-2 3CL protease: Structure-Based Virtual Screening, Crystallographic Fragment Screening and Assay Implementation to Identify Novel Starting Points for Inhibition (OC02)**

Dr Alexander METZ  
(IDORSIA PHARMACEUTICALS LTD, Allschwil, Switzerland)

#### Session Session 2: Induced-Proximity Drug Discovery : Selective Protein Degraders, PPI Stabilizers, etc.

**19:45 Introduction by the Session Chair**

Dr Matthias FRECH  
(MERCK, Darmstadt, Germany)

**19:50 The Structural Basis of Indisulam-Mediated Recruitment of RBM39 to the DCAF15-DDB1-DDA1 E3 Ligase Complex (IL01)**

Dr Dirksen BUSSIERE  
(ELI LILLY, Indianapolis, United States)

**20:20 Exhibitor Short Presentation - Nanolmaging Services  
Leading the Revolution: CryoEM-Enabled Drug Discovery**

Dr Melanie ADAMS-CIOABA  
(NANOIMAGING SERVICES, San Diego, United States)

**20:30 Targeting a Cryptic Binding Pocket by Disulfide-Induced Rupture of a Homodimeric Protein-Protein Interface (OC03)**

Dr Dzung NGUYEN  
(PHILIPPS-UNIVERSITÄT MARBURG, Marburg, Germany)

**20:45 Exhibitor Short Presentation - Crelux, a WuXi AppTec company  
Target To Hit Solutions: Drug Discovery Of Bifunctional Molecules**

Dr Thomas WALDMANN  
(CRELUX, A WUXI APPTEC COMPANY, Martinsried, Germany)

**20:55 Dissecting Protein-Protein Interaction Networks (KL01)**

Prof. Michelle ARKIN  
(UNIVERSITY OF CALIFORNIA, San Francisco, CA, United States)

#### Session Networking

**21:40 Networking, Exhibition & Posters**

**23:00 End of the day**

# 2nd NovAliX Virtual Conference

## Program

### Wednesday March 10, 2021

#### Session Networking

**18:00**     **Networking, Exhibition & Posters**

#### Session Session 3: Integrative Structural Biology & Biophysics

**19:00**     **Introduction by the Session Chair**

Dr MariJean EGGEN  
(ELI LILLY, Indianapolis, United States)

**19:05**     **Hijacking Molecular Plasticity to Fine Tune Nuclear Receptor Signaling: Structural Proteomics and Precision Therapeutics (IL02)**

Prof. Patrick GRIFFIN  
(THE SCRIPPS RESEARCH INSTITUTE, Jupiter, United States)

**19:35**     **Exhibitor Short Presentation - NovAliX  
NovAliX: Drug Discovery fueled with Biophysics**

Dr James TARVER  
(NOVALIX, Philadelphia, United States)

**19:45**     **Synergistic Use of Ligand Based NMR and Crystallography to Elucidate Small Molecules Interactions with Challenging Targets (OC04)**

Dr Arielle VIACAVA FOLLIS  
(EMD SERONO R&D INSTITUTE INC, Stow, United States)

**20:00**     **Exhibitor Short Presentation - Wuxi Biortus Biosciences Co., Ltd.  
Your Partner for Proteins and Structures**

Dr Yujian YOU  
(WUXI BIORTUS BIOSCIENCES CO., LTD., Jiangyin, China)

**20:10**     **Fragment Screening Reveals a Novel Pocket in Cysteine Protease ATG4B (OC05)**

Dr Troy JOHNSON  
(UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER, Houston, United States)

**20:25**     **Exhibitor Short Presentation - Bruker  
An Introduction to Bruker SPR Technology**

Mr Cameron PARAST  
(BRUKER SCIENTIFIC, Billerica, United States)

**20:35**     **Inhibition of the Cysteine Desulfurase in the SUF Pathway of Iron-Sulfur Cluster Biogenesis Towards Development of Novel Antibacterials (OC06)**

Dr Amy BONCELLA  
(COLORADO SCHOOL OF MINES, Golden, United States)

**20:50**     **Identification, Characterization and Conformational Assessment of STING Modulators (IL03)**

Dr Daniel WYSS  
(MERCK & CO., INC., Morristown, United States)

#### Session Networking

**21:20**     **Networking, Exhibition & Posters**

**23:00**     **End of the day**

# 2nd NovAliX Virtual Conference

## Program

**Thursday March 11, 2021**

### Session Networking

**18:00    Networking, Exhibition & Posters**

**Session Session 4: Cryo-EM in Drug Discovery - Accelerating Drug Design for Intractable Targets**  
**a full day session organized by Thermo Fisher Scientific, Platinum Sponsor of the NovAliX Conference**

#### **Introduction by the Session Chair**

Dr Jeffrey LENGYEL  
(THERMO FISHER SCIENTIFIC, New York, United States)

**19:15    From Concept to Reality: CryoEM as an Integral Part of Drug Discovery and Development (IL04)**

Dr Corey STRICKLAND  
(MERCK, Kenilworth, United States)

**19:45    Structural Characterization of Different TRPA1 Inhibitors (IL05)**

Dr Lionel ROUGÉ  
(GENENTECH, San Francisco, United States)

**20:15    Improving Protein-Ligand Modeling into Cryo-EM Data and the use of those Models in Drug Discovery Efforts (IL06)**

Dr Kenneth BORRELLI  
(SCHRÖDINGER, INC., New York, United States)

**20:45    Using Cryo-EM for GPCR Drug Discovery and Development (IL07)**

Prof. Patrick M. SEXTON  
(MONASH UNIVERSITY, Parkville, Australia)

**21:15    Break**

**Session Panel Discussion: Cryo-EM in Drug Discovery - Accelerating Drug Design for Intractable Targets**

**21:20    Moderator**

Dr Jeffrey LENGYEL  
(THERMO FISHER SCIENTIFIC, New York, United States)

#### **Speakers**

Mr Benjamin APKER  
(MITEGEN, Ithaca, United States)

Dr Corey STRICKLAND  
(MERCK, Kenilworth, United States)

Dr Denis ZEYER  
(NOVALIX, Illkirch, France)

### Session Networking

**22:05    Networking, Exhibition & Posters**

**23:00    End of the day**

# 2nd NovAliX Virtual Conference

## Program

**Friday March 12, 2021**

### Session Networking

**18:00     Networking, Exhibition & Posters**

### **Session Session 5: Advances in Biophysical Techniques : Single-Molecule Techniques, Label-Free Technologies, Surface-Immobilized Techniques beyond SPR, etc.**

**19:00     Introduction by the Session Chair**

Dr Daniel WYSS  
(MERCK & CO., INC., Morristown, United States)

**19:05     Ligand-Dependent Structural Plasticity of TrkA Kinase Studied by NMR Spectroscopy (IL08)**

Dr Reto HORST  
(PFIZER, INC., Grotton, United States)

**19:35     Exhibitor Short Presentation - Dynamic Biosensors  
heliX® biosensor – your structure-based drug discovery tool**

Dr Joanna DEEK  
(DYNAMIC BIOSENSORS, Martinsried/Planegg, Germany)

**19:45     Real-Time Single-Molecule Detection of Drug-Protein Interactions Using a Novel DNA-Based Nanoscale Actuator (OC07)**

Prof. Terence STRICK  
(ECOLE NORMALE SUPERIEURE, Paris, France)

**20:00     Exhibitor Short Presentation - MiTeGen  
Crystallography and Cryo-EM - Sample Preparation Technology Developments**

Mr Benjamin APKER (MITEGEN, Ithaca, United States)  
(BIOIBÉRICA)

**20:10     Development of a Microscale Thermophoresis-Based Method for Screening Inhibitors of the Methyl-Lysine Reader Protein MRG15 (OC08)**

Dr Alessandra FEOLI  
(UNIVERSITÀ DEGLI STUDI DI SALERNO, Fisciano (Salerno), Italy)

**20:25     SAR by 19F NMR: Using Protein-Observed Fluorine NMR for Targeting Protein Complexes (IL09)**

Prof. William POMERANTZ  
(UNIVERSITY OF MINNESOTA, Minneapolis, United States)

**20:55     Focal Molography - A New Bioanalytical Tool to Eliminate Guess Work in Pharma Research (OC09)**

Dr Volker GATTERDAM  
(LINO BIOTECH AG, Zurich, Switzerland)

**21:10     Exhibitor Short Presentation - Biosensing Instruments  
Cell-based SPR Introduction**

Mrs Akemi UEKI  
(BIOSENSING INSTRUMENT, Tempe, United States)

**21:20     Too Weak for Biophysics: Concentration-Dependent Crystallographic Soaking as Tool for Fragment Hit Prioritisation (OC10)**

Ms Yuliya DUBIANOK  
(UNIVERSITY OF OXFORD, Oxford, United Kingdom)

**21:35     Microcrystal Electron Diffraction (MicroED): Methodology and Applications (KL02)**

Prof. Brent NANNENGA  
(ARIZONA STATE UNIVERSITY, Tempe, United States)

**22:20     Closing Remarks**

Dr Jean-Paul RENAUD  
(URANIA THERAPEUTICS, Ostwald, France)

**22:30     End of the Conference**