

Programme

Wednesday November 13, 2019

Registration

Welcome Address

Session 1: Recent Advances in FBDD

Session Chair

Dr Mike HANN
(GSK MEDICINES RESEARCH CENTRE, Stevenage, United Kingdom)

PhABits – Shining New Light on Fragments Approaches for Assessing Targets Tractability (IL01)

Dr Mike HANN
(GSK MEDICINES RESEARCH CENTRE, Stevenage, United Kingdom)

Fast Molecular Interaction Screening and Affinity Determination in Biophysical Drug Discovery Projects with Dianthus NT.23 and Tycho NT.6 (OC01)

Mr Andreas LANGER
(NANOTEMPER TECHNOLOGIES GMBH, Munich, Germany)

Targeting TIR Domain Assemblies in TLR Signaling Pathways to Design Anti-Inflammatory Compounds (OC02)

Mr Md Habibur RAHAMAN
(UNIVERSITY OF QUEENSLAND, Brisbane, Australia)

Ligand-Based Fluorine NMR Screening in Drug Discovery (IL02)

Dr Anna VULPETTI
(NOVARTIS, Basel, Switzerland)

Coffee Break & Exhibition

**Exhibitor Short Presentation: Crelux – A WuXi AppTec company
A Fragment-Based Approach to Leverage Challenging Targets: Human STING**

19F NMR Screening Applied to Multiple Cancer Target (OC03)

Dr Kenneth CAMERON
(CRUK BEATSON INSTITUTE, Glasgow, United Kingdom)

Enabling Drug Discovery with Crude Reaction Mixture Screening (IL03)

Dr Ben DAVIS
(VERNALIS RESEARCH, Cambridge, United Kingdom)

Academia Keynote Lecture

Session Chair

Structure-biophysics Driven PROTAC Design for Degrading Undruggable Cancer Targets (KL01)

7th NovAliX Conference

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Prof. Alessio CIULLI
(UNIVERSITY OF DUNDEE, Dundee, United Kingdom)

Welcome Reception

End of the Day

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Thursday November 14, 2019

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Session 2: Challenging Targets (GPCRs, Ion Channels...)

Session Chair

Dr Junichi SAITO
(KYOWA KIRIN CO., LTD., Shizuoka, Japan)

Structural Biology of Seven-Transmembrane Receptors Toward Drug Discovery (IL04)

Prof. Shigeyuki YOKOYAMA
(RIKEN, Yokohama City, Japan)

Venturing into the Untapped: Discovery of Small-Molecule Drugs Targeting Messenger RNAs Using Biophysical and Computational Methods (OC04)

Dr Ella MORISHITA
(VERITAS IN SILICO, Tokyo, Japan)

Coffee Break & Exhibition

Cryo-EM Structures Capturing the Transport Cycle of the P4-ATPase Flippase (OC05)

Mr Masahiro HIRAIZUMI (MITSUBISHI TANABE PHARMA CORPORATION, Yokohama, Japan)

Advancing Cryo-EM for Determination of G Protein-Coupled Receptor Structure (IL05)

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

Poster Session

Lunch Break, Exhibition & Networking

Session 3: Cryo-EM in Drug Discovery

Session Chair

Dr Midori KAMIMURA
(TEIJIN PHARMA LIMITED, Tokyo, Japan)

Cryo-EM Structural Studies of The Human TRPV4 Ion-Channel: Insights and Characterization of a Novel Open-Conformation (OC06)

Dr Simon HOLTON
(BAYER, Berlin, Germany)

Cryo-EM Application for Drug Discovery (OC07)

Dr Wen-ti LIU
(NOVALIX, Illkirch, France)

Advancing Drug Discovery in Pharma Using Cryo-EM (IL06)

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Dr Claudio CIFERRI
(GENENTECH, South San Francisco, United States)

**Exhibitor Short Presentation: Thermo Fisher Scientific
Cryo-EM Single Particle Analysis Productivity: the State of the Art**

Coffee Break & Exhibition

Session 4: X-ray Crystallography / Cryo-EM Complementarity

Session Chair

Dr Denis ZEYER
(NOVALIX, Illkirch, France)

**Increased Performance in High-Throughput Compound and Fragment Screening Campaigns by the Use of
"Club Class" Data Collection (IL07)**

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

Discovery of a Regulatory Subunit of the Yeast Fatty Acid Synthase (IL08)

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

**Applying Hybrid Biophysical and Structural Methods to Study Allosteric Regulation of GTP Cyclohydrolase I -
A Target for Treating Inflammatory and Neuropathic Pain (IL09)**

Dr Herbert NAR
(BOEHRINGER INGELHEIM, Biberach, Germany)

Posters & Drinks

End of the Day

Conference Dinner

Friday November 15, 2019

Registration

Session 5: Hot Topics

Session Chair

Dr Herbert NAR
(BOEHRINGER INGELHEIM, Biberach, Germany)

Re-energizing Small Molecule Drug Discovery by Centaur Chemist™ (IL10)

Dr Daisuke TANAKA
(EXSCIENTIA, Osaka, Japan)

Industry Keynote Lecture

Session Chair

Dr Mike HANN
(GSK MEDICINES RESEARCH CENTRE, Stevenage, United Kingdom)

From Fragments to Pharmaceuticals (KL02)

Dr Harren JHOTI
(ASTEX PHARMACEUTICALS, Cambridge, United Kingdom)

Session 5: Hot Topics (continued)

Session Chair

Coffee Break & Exhibition

Exhibitor Short Presentation: NanoTemper Technologies
Biophysical Tools for Measuring Binding Affinity, Protein Stability or Protein Quality with just a Tiny Amount of Sample

Exhibitor Short Presentation: NovAliX
Single Particle Cryo-EM a Cutting Edge Service for Drug Discovery

Uncovering a Ligand-Induced Twisted State of a Homodimeric Enzyme by Pulsed Electron-Electron Double Resonance (OC08)

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

Structural Mechanisms of and Drug Discovery Targeting Substrate of Gamma-Secretase in Alzheimer's Disease (OC09)

Prof. Chunyu WANG
(RENSSELAER POLYTECHNIC INSTITUTE, Latham, United States)

Poster Prize and Closing Remarks

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End of the Conference