Programme

Keynote Speakers

Programme

Monday January 24, 2022

Session Methodologies to Understand Cellular Target Interaction

Session Chair

Prof. Per ARTURSSON (UPPSALA UNIVERSITY, Uppsala, Sweden)

13:15 Opening Ceremony

Dr Klemens HOEGENAUER (NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, Basel, Switzerland) Dr Karl Heinz KRAWINKLER (NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, Basel, Switzerland) Dr Antonia F. STEPAN (F. HOFFMANN-LA ROCHE LTD, Basel, Switzerland)

13:30 IL01 - Intracellular Oligonucleotide Distribution and Protein Binding

Dr Alice GHIDINI (ASTRAZENECA, Gothenburg, Sweden)

13:50 IL02 - Monitoring Drug Selectivity and Target Engagement Across Systems – Thermal Shift Assay in Drug Discovery

Dr Anna RUTKOWSKA-KLUTE (GSK, Heidelberg, Germany)

14:10 Break

14:25 IL03 - Molecular Chameleonicity and Cell Permeability of Drugs and PROTACs in the bRo5 Space

Prof. Jan KIHLBERG (UPPSALA UNIVERSITY, Uppsala, Sweden)

14:45 IL04 - Lessons in Transcellular Membrane Permeability Re-Learned

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

15:05 Session Discussion

15:25 End of Session

Session Networking & Exhibition

Session Targeting Unstructured Proteins

Session Chair

Dr Hasane RATNI (F. HOFFMANN-LA ROCHE LTD, Basel , Switzerland)

15:55 Introduction

16:00 IL05 - Innovative Strategies to Target Non-Coding RNAs with Synthetic Ligands

Dr Maria DUCA (UNIVERSITY OF CÔTE D'AZUR, Nice, France)

16:20 IL06 - Targeting Transcription Factors for Treating Human Cancers and Auto Immune and Inflammatory Diseases

Dr Doriano FABBRO (CELLESTIA BIOTECH AG, arlesheim, Switzerland)

16:40 Break

16:55 IL07 - Drugging RNA - A Structure-based Approach

Dr Jacques DUMAS (ARRAKIS THERAPEUTICS, Boston, United States)

17:15 IL08 - Design of Zotatifin (eFT226), a First-in-Class Inhibitor of the RNA Helicase eIF4A

Dr Christian NILEWSKI (GENENTECH, South San Francisco, United States)

17:35 KL01 - Attenuating Oncogenic Transcription with Small Molecules

Programme

(SANOFI-AVENTIS DEUTSCHLAND GMBH)
Prof. Angela KOEHLER (MIT KOCH INSTITUTE FOR INTEGRATIVE CANCER RESEARCH, Cambridge, United States)

18:15 Session Discussion

18:45 End of the Day

Programme

Tuesda	y January	<i>1</i> 25.	2022
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Session	Poste	r Session	I - Odd	Numbers
Network	ina & I	Exhibition	1	

Session Automation and Machine Learning Applications for Medicinal Chemistry

Session Chair

Dr Michael WLEKLINSKI (MERCK & CO., INC., Kenilworth, United States)

- 13:15 Introduction
- 13:20 IL09 Enabling Fragment-based Drug Discovery (FBDD) with Automated Synthesis Technologies

Dr Rachel GRAINGER

(ASTEX PHARMACEUTICALS, Cambridge, United Kingdom)

13:40 IL10 - Rapid Development of Robust Reactions and Multi-Step Syntheses

Prof. Alexei LAPKIN

(UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

- 14:00 Break
- 14:15 IL11 High-Throughput Experimentation Capabilities to Accelerate Discovery Chemistry

Dr Iulia STRAMBEANU

(JOHNSON AND JOHNSON, King of Prussia, United States)

- 14:35 Session discussion
- 14:55 End of Session

Session Networking & Exhibition

Session Increasing sp³ Fragment Options: Advances in the Synthesis of Small Ring Systems

Session Chair

Dr James MOUSSEAU (HALDA THERAPEUTICS, New Haven, United States)

- 15:25 Introduction
- 15:30 IL12 Exploring and exploiting propellanes

Prof. Ed ANDERSON

(UNIVERSITY OF OXFORD, Oxford, United Kingdom)

15:50 IL13 - The Next Generation of BCPs: Exploring Substitutions on the Bridge

Dr Xiaoshen MA

(MERCK & CO., INC, Boston, United States)

- 16:10 Break
- 16:25 IL14 Synthesis and Functionalization of Cyclopropane Derivatives

Dr Sophie ROUSSEAUX

(UNIVERSITY OF TORONTO, Toronto, Canada)

16:45 IL15 - No Strain, No Gain: Advances in the Synthesis and Design of New Classes of Building Blocks

Prof. Kevin BROWN

(INDIANA UNIVERSITY, Bloomington, United States)

- 17:05 Session Discussion
- 17:25 End of the Day

Programme

Wednesday January 26, 2022

Session Understanding PK and PK/PD relationships in drug discovery - Target Mediated Drug Disposition

Session Chair

Dr Stephanie HARLFINGER (ASTRAZENECA, Cambridge, United Kingdom)

13:15 Introduction

13:20 IL16 - General Introduction to TMDD

Dr David FAIRMAN (GSK, Cambridge, United Kingdom)

13:40 IL17 - Concept of Pharmacologic Target-Mediated Drug Disposition (TMDD) in Large-Molecule and Small-Molecule Compounds

Prof. Guohua AN (THE UNIVERSITY OF IOWA COLLEGE OF PHARMACY, Iowa City, United States)

14:00 Break

14:15 IL18 - Understanding the PKPD and ADME of PF-07059013: An Allosteric Modulator of a High Abundance Target

Dr Kevin BEAUMONT (ASTRAZENECA, Cambridge, United Kingdom)

14:35 IL19 - Importance of Mechanistic Models in AHD Prediction (IL)

Dr Birgit SCHOEBERL (NOVARTIS INSTITUTE FOR BIOMEDICAL RESEARCH, Cambridge, MA, United States)

14:55 Session Discussion

15:15 End of Session

Session Networking & Exhibition

Session Drug Discovery Tales (I)

Session Chair

Dr Nadia M. AHMAD (CHARLES RIVER LABORATORIES, Harlow, United Kingdom)

15:45 Introduction

15:50 OC01 - Design and Synthesis of Novel RNA Binders for Therapeutic Applications

Dr Maurinne BONNET (ICN, Nice, France)

16:10 OC02 - Is Resistance Futile? Discovery of Clinical Candidate AZD3229, A Pan-Mutant C-KIT Inhibitor

Dr James SMITH (ASTRAZENECA, Cambridge, United Kingdom)

16:30 Break

16:45 KL02 - Drug Discovery: Where are we Headed?

Dr Wendy YOUNG (MPM CAPITAL, Brisbane, CA, United States)

17:25 Session Discussion

17:45 End of the Day

Programme

Thursday January 27, 2022

Session Poster Session	II - Even Numbers
Networking & Exhibition	i

Session Drug Discovery Tales (II)

Session Chair

Dr Nadia M. AHMAD (CHARLES RIVER LABORATORIES, Harlow, United Kingdom)

13:15 Introduction

13:20 OC03 - Discovery of a Selective ALK2 Kinase Inhibitor for the Treatment of a Rare Genetic Bone Disease

Dr Thomas ULLRICH (NOVARTIS PHARMA AG, Basel, Switzerland)

13:40 OC04 - Dissociative Inhibitors of Thymidylate Synthase Homodimer Accelerate its Proteasomal Degradation and Inhibit Cancer Growth in Vivo

Prof. Maria Paola COSTI

(UNIVERSITY OF MODENA AND REGGIO EMILIA, Modena, Italy)

14:00 Break

14:15 OC05 - Rational Design of Light-Controlled Bioactive Compounds for Photopharmacology

Mr Piermichele KOBAURI (UNIVERSITY OF GRONINGEN FSSC, Groningen, The Netherlands)

14:35 OC06 - Towards the Design of Cell Division Cycle 25 Phosphatases Inhibitors as Anticancer Agents

Dr Carmen CERCHIA (UNIVERSITY OF NAPLES FEDERICO II, Naples, Italy)

14:55 Session Discussion

15:15 End of Session

Session Networking & Exhibition

Session Covalent Targeting: Innovating for the Future

Session Chair

Dr Vishal VERMA (GENENTECH, INC., South San Francisco, United States)

15:45 Introduction

15:50 IL20 - Lysine-Targeting Covalent Inhibitors

Dr Matthew CHEESEMAN (THE INSTITUTE OF CANCER RESEARCH, Sutton, United Kingdom)

16:10 IL21 - Reversible-covalent Inhibitors of the Kinase Activity of FGFR4

Dr Robin FAIRHURST (NOVARTIS, Basel, Switzerland)

16:30 Break

16:45 IL22 - Studies with Cyanamide-Based Janus Kinase 3 (JAK3) Covalent Inhibitors

Dr Agustin CASIMIRO-GARCIA (PFIZER, United States)

17:05 Session Discussion

17:25 End of the Day

Programme

Friday January 28, 2022

Session The "Catalytic Cycle" of Complex Molecule Synthesis and Methodology Development				
	Session Chair			
	Prof. Tanja GAICH (UNIVERSITY OF KONSTANZ, Konstanz, Germany)			
13:00	Introduction			
13:05	IL23 - Flow-based Methods for Chemical Peptide and Protein Synthesis".			
	Prof. Nina HARTRAMPF (UNIVERSITY OF ZURICH, Zürich, Switzerland)			
13:25	IL24 - Prins Cyclization in Natural Product Synthesis			
	Prof. Ang LI (SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY, Shanghai, China)			
13:45	Break			
14:00	IL25 - Taming Multifaceted Nickel Catalysts: An Academic Fascination			
	Prof. Ruben MARTIN (INSTITUTE OF CHEMICAL RESEARCH OF CATALONIA, Tarragona, Spain)			
14:20	IL26 - Computationally Augmented Total Synthesis			
	Dr Timothy NEWHOUSE (YALE UNIVERSITY, New Haven, United States)			
14:40	KL03 - Functionalization of N-Heterocycles using Li, Mg, and Zn Organometallics			
	Prof. Paul KNOCHEL (LUDWIG MAXIMILIANS UNIVERSITY, Munich, Germany)			
15:20	Session Discussion			
15:50	Closing Ceremony			
16:00	End of Alpine Winter Conference 2022			