Scientific Programme

Tuesday June 9, 2015

11:00 Registration

13:30 Welcome Address

SESSION 1: Method Development & Emerging Technologies

Session Chair

Dr Johannes OTTL (NOVARTIS INSTITUTE OF BIOMEDICAL RESEARCH, Basel, Switzerland)

13:45 Monitoring Drug Target Engagement in Cells and Tissues Using the Cellular Thermal Shift Assay

Dr Pär NORDLUND

(KAROLINSKA INSTITUTE & NANYANG TECHNOLOGICAL UNIVERSITY, Singapore, Singapore)

14:30 No Crystal, No Problem: Hydrogen Deuterium Exchange Mass Spectrometry in Drug Discovery

Dr Nino CAMPOBASSO (GLAXOSMITHKLINE, Collegeville, United States)

15:15 Strategies to Target Protein-Protein Interactions

Dr Marta WESTWOOD (UCB, Slough, United Kingdom)

15:40 Coffe break & exhibition

16:10 Characterization of IL17A Inhibitors by Hydrogen/Deuterium Exchange Mass Spectrometry (HDX-MS)

Mr Alfonso ESPADA (ELI LILLY, ALCOBENDAS, Spain)

16:35 Second-Harmonic Generation (SHG) Measures and Resolves Protein Conformations: High-Throughput Structural Drug Discovery

Dr Joshua SALAFSKY (BIODESY, South San Francisco, United States)

KEYNOTE LECTURE

Chair

Dr Ursula EGNER (BAYER, Berlin, Germany)

17:20 Molecular Recognition in Protein-Ligand Complexes

Prof. Gerhard KLEBE (PHILIPPS-UNIVERSITY MARBURG, Marburg, Germany)

18:20 Welcome Reception

19:35 End of Day 1

Scientific Programme

Wednesday June 10, 2015

08:30 Registration

SESSION 2: Biophysics for Integral Membrane Proteins

Session Chair

Dr Vincent MIKOL (SANOFI, Vitry-sur-Seine, France)

09:00 Improving the Biophysical Properties of GPCRs for Drug Screening and Structural Biology

Prof. Andreas PLÜCKTHUN (UNIVERSITY OF ZÜRICH, Zurich, Switzerland)

09:45 Fluorine NMR Screening: Principles and Application to a Membrane Protein

Dr Claudio DALVIT (UNIVERSITY OF NEUCHÂTEL, Neuchâtel, Switzerland)

10:30 Coffee break & exhibition

11:00 Drug Discovery at the Single Molecule Level

Dr Anders GUNNARSSON (ASTRAZENECA, Mölndal, Sweden)

11:25 First Crystal Structure of Transmembrane Domain of G-Protein-Coupled Receptor MGLU5 Provides Insight Into Efficient New Drugs Design

Dr Krzysztof OKRASA (HEPTARES THERAPEUTICS, Welwyn Garden City, United Kingdom)

SESSION 4 (anticipated): The Use of Kinetics in Drug Discovery

Session Chair

Dr Geoff HOLDGATE (ASTRAZENECA, Macclesfield, United Kingdom)

11:50 Towards a Better Understanding of the Structural Mechanisms of Kinase Inhibitor Binding Kinetics

Prof. Stefan KNAPP (OXFORD UNIVERSITY, Oxford, United Kingdom)

12:35 Lunch, exhibition & networking

SESSION 3: Impact of Biophysics on Drug Discovery Projects

Session Chair

Dr Herbert NAR (BOEHRINGER INGELHEIM, Biberach, Germany)

14:15 Some Examples of Biophysics Helping Drug Discovery

Prof. Rod HUBBARD (UNIVERSITY OF YORK & VERNALIS, Cambridge, United Kingdom)

Scientific Programme

15:00 Making Every Interaction Count: Impact of Biophysical Methods Across the AstraZeneca Small-Molecule Portfolio

Dr Stefan GESCHWINDNER (ASTRAZENECA, Mölndal, Sweden)

15:45 Coffee break & exhibition

16:15 Biophysical Approaches for Hit Finding and Evaluation at Bayer

Dr Ursula EGNER (BAYER, Berlin, Germany)

17:00 Biophysics and Structural Biology Enabling the Discovery of Therapeutic Solutions: from Small Molecule Inhibitors to Vaccine Design

Dr Vincent MIKOL (SANOFI, Vitry-sur-Seine, France)

17:45 End of Day 2

Scientific Programme

Thursday June 11, 2015

SESSION 4: The Use of Kinetics in Drug Discovery

Session Chair

Dr Geoff HOLDGATE (ASTRAZENECA, Macclesfield, United Kingdom)

09:15 CCR2 Antagonists: From Structure-Kinetics Relatiosnhips to in vivo Efficacy

Prof. Laura HEITMAN (UNIVERSITY OF LEIDEN, Leiden, The Netherlands)

10:00 A Universal Homogeneous Assay for High-Throughput Determination of Binding Kinetics

Dr Amaury FERNANDEZ MONTALVAN (BAYER, Biberach an der Riss, Germany)

10:25 Coffee break & exhibition

10:55 CDK8 Inhibitors with Long Residence Time Emerging from a Retro-Design Approach: New Opportunities for Cancer Treatment

Dr Anita WEGERT (MERCACHEM-SYNCOM, Nijmegen, The Netherlands)

11:20 Analysis of Binding Kinetics and Thermodynamics of DPP-4 Inhibitors and their Relationship to Structure

Dr Herbert NAR (BOEHRINGER INGELHEIM, Biberach, Germany)

12:05 Lunch, exhibition & networking

13:45 Poster Session

16:00 Coffe break & exhibition

16:30 Round Table Discussion

The Round Table will sum up the topics discussed in the first four Sessions of this Conference

Chair

Prof. Rod HUBBARD (UNIVERSITY OF YORK & VERNALIS, Cambridge, United Kingdom)

17:15 Poster Prizes

17:25 End of Day 3

20:00 Conference Dinner at the Restaurant Maison Kammerzell

(optional, subject to prior booking)

Scientific Programme

Friday June 12, 2015

SESSION 5: Special Focus on Epigenetics

Session Chair

Prof. Helena DANIELSON (UPPSALA UNIVERSITY, Uppsala, Sweden)

09:15 Interrogating the Bromodomain Family Through Chemical Biology

Dr Richard CUMMINGS (CONSTELLATION PHARMACEUTICALS, Cambridge, United States)

10:00 When to get Biophysical with Readers, Writers and Erasers

Dr Chun-wa CHUNG (GLAXOSMITHKLINE, Stevenage, United Kingdom)

10:45 Coffee break & exhibition

11:15 Protein Methyltransferase Inhibitors as Personalised Cancer Therapeutics

Dr Robert A. COPELAND (EPIZYME, Cambridge, United States)

12:00 Closing Remarks

12:15 End of Day 4

14:15 Guided tour of the Cathedral of Strasbourg (subject to prior registration)