# **Programme**

# **Tuesday October 15, 2013**

13:00 Registration

14:00 Social Programme

16:45 Welcome Address

Chair

Dr Takaaki MIURA (CHUGAI PHARMACEUTICAL, Kanagawa, Japan)

17:00 KN01 - Biophysical Methods and Fragment Based Drug Discovery: Targeting Protein-Protein Interactions in

**Cell Regulatory Systems** 

Prof. Sir Tom BLUNDELL (UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

18:00 Welcome Reception

#### **Programme**

#### Wednesday October 16, 2013

#### 08:30 Registration

1st Session - Biophysical Characterisation

#### Chair

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

#### 09:00 PL01 - Binding of Drug Substances to Molecular Targets Investigated by Biophysical Methods

Dr Michael HENNIG

(F. HOFFMANN-LA ROCHE LTD., Villigen, Switzerland)

#### 09:40 PL02 - Enabling GPCR Drug Discovery Through Structural and Biophysical Insights

Dr Rob COOKE

(HEPTARES, Hertfordshire, United Kingdom)

#### 10:20 Coffee Break

# 10:50 OC01 - Biophysical Investigations of the Synergistic Activities of Antimicrobial Peptides: New Strategies to Fight Multiresistance

Prof. Burkhard BECHINGER (UNIVERSITY OF STRASBOURG, Strasbourg, France)

# 11:15 OC02 - X-Ray Crystallography, Kinetic Target-Guided Synthesis and NMR to Unravel the Mode of Action of Insulin Degrading Enzyme Modulators

Prof. Rebecca DEPREZ-POULAIN (UNIVERSITY OF LILLE, Lille, France)

#### 11:40 PL03 - Biophysics to Drive Lead Discovery

Dr Matthias FRECH (MERCK, Darmstadt, Germany)

#### 12:20 Lunch and Networking

2nd Session - Mechanistic Analysis

#### Chair

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

#### 14:00 PL04 - Protein Methyltransferase Inhibitors as Personalised Cancer Therapeutics: DOT1L and EPZ-5676

Dr Ann BORIACK-SJODIN (EPIZYME, Cambridge, United States)

# 14:40 PL05 - Investing in Knowledge: Combining Biophysical Data in Fragment-Based Drug Discovery

Dr Glyn WILLIAMS

(ASTÉX PHARMACEUTICALS, Cambridge, United Kingdom)

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# 15:20 OC03 - Residence and Recognition Time and their Use for Structure Kinetic Relationships and for Judging Efficacy of Lead Series

Dr Markku HÄMÄLÄINEN (GE HEALTHCARE BIO-SCIENCES, Uppsala, Sweden)

### 15:45 OC04 - Pharmacokinetics and the Drug-Target Residence Time Concept

Dr Göran DAHL (ASTRAZENECA, Mölndal, Sweden)

#### 16:10 Coffee Break

### 16:45 OC05 - Bringing Light into Antibody Binding Characteristics in Crude Extracts by Means of FCCS

Dr Frank BECKER (INTANA BIOSCIENCE GMBH, Planegg, Germany)

#### 17:10 PL06 - Can we Use Kinetics and Thermodynamics to Guide Drug Discovery?

Dr Geoff HOLDGATE (ASTRAZENECA, Macclesfield, United Kingdom)

#### Chair

Dr Geoff HOLDGATE (ASTRAZENECA, Macclesfield, United Kingdom)

#### 17:50 KN02 - Molecular Mechanism of Action (MMOA) in Drug Discovery

Dr David SWINNEY (IRND3, Mountain View, United States)

### 20:00 Entertainment (optional & subject to prior registration)

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### Thursday October 17, 2013

3rd Session - Emerging Technologies

#### Chair

Dr Matthias FRECH (MERCK, Darmstadt, Germany)

#### 09:00 PL07 - Label-Free, Immobilisation-Free Interaction Studies Using Microscale Thermophoresis

Dr Stefan DUHR

(NANOTEMPER, Munich, Germany)

#### 09:40 PL08 - Backscattering Interferometry: An Enabling Drug Development Technology

Or Darryl BORNHOP

(VANDERBILT UNIVERSITY, Nashville, United States)

### 10:20 OC06 - Detection and Analysis of Proteins with an Electro-Switchable DNA Chip

Dr Ralf STRASSER (DYNAMIC BIOSENSORS GMBH, Martinsried, Germany)

#### 10:45 Coffee Break

# 11:15 OC07 - Binding Rate Constants Measured on Microliter Volume Using On-Chip Temperature Modulation and Fluorescence Lock-In Detection

Dr Charlie GOSSE (CNRS, Marcoussis, France)

# 11:40 OC08 - CRYO-TEM: The Way to Answer Real Biological Questions through Unraveling the 3D Mechanistics of Protein

Dr Thomas WOHLFARTH (FEI, Eindhoven/Acht, The Netherlands)

## 12:05 PL09 - Towards Personalised Cancer Medicine with New NMR Tools to Probe Small GTPase Proteins

(UNIVERSITY OF TORONTO, Toronto, Canada)

## 12:45 Lunch and Networking

#### 14:25 Poster Session

## 15:55 Coffee Break

# 16:25 Round-table discussion on hot topics, emerging trends, and new techniques & approaches; sharing of experience and questions from the audience to a panel of experts

### Moderator

Dr Glyn WILLIAMS (ASTEX PHARMACEUTICALS, Cambridge, United Kingdom)

#### 17:10 Poster Prizes

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#### Chair

Dr Michael HENNIG (F. HOFFMANN-LA ROCHE LTD., Villigen, Switzerland)

17:25 KN03 - Combining X-Ray Crystallography and Single-Molecule Methods to Probe Antibiotic Inhibition of Translation

Prof. Jamie CATE (UNIVERSITY OF CALIFORNIA, Berkeley, United States)

20:00 Conference Dinner (optional & subject to prior registration)

#### **Programme**

### Friday October 18, 2013

4th Session - Biophysical Methods for Identifying Hits and Leads

#### Chair

Dr Herbert NAR (BOEHRINGER INGELHEIM, Biberach, Germany)

#### 09:00 PL10 - Application of SPR Biosensors Throughout the Drug Discovery Process

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

#### 09:40 PL11 - Finding Active Ligands to kRAS Using Solution State NMR

Dr Till MAURER (GENENTECH, South San Francisco, United States)

#### 10:20 Coffee Break

#### 10:50 OC09 - Identification and Validation of Small Molecule Inhibitors of G Protein Beta 1 Gamma 2

Dr Preeti BAKRANIA (MRC TECHNOLOGY, London, United Kingdom)

# 11:15 OC10 - Fragments at UCB: Implementation of Non-Covalent Mass Spectrometry and 19F NMR as Orthogonal Screening Techniques

Dr Hannah MAPLE (UCB, Slough, United Kingdom)

#### 11:40 PL12 - Biophysics in Pharmaceutical Lead Discovery

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

### 12:20 Closing Remarks and Departure