

Programme

Wednesday July 4, 2018

07:30 **Registration**

09:00 **Opening and Inaugural Lecture**

Session Chair

Dr Luc VAN HIJFTE
(MERCACHEMSYNCOM, Nijmegen, The Netherlands)

09:30 **PL01 - Disrupting Cancer Care & Outcomes by Putting Patients in the Driving Seat**

Dr Anne BRUINVELS
(PX HEALTHCARE, London, United Kingdom)

Session 1 - New Breakthrough in GPCR Structure, Function and Drug Discovery

Session Chair

Dr Luc VAN HIJFTE
(MERCACHEMSYNCOM, Nijmegen, The Netherlands)

10:15 **PL02 - Chemogenetic Approachs to Validate Poorly Characterised GPCRS**

Prof. Graeme MILLIGAN
(UNIVERSITY OF GLASGOW, Glasgow, United Kingdom)

11:00 **Coffee break and Exhibition**

Session Chair

Prof. Dominique BONNET
(CNRS-UNIVERSITY OF STRASBOURG, Illkirch, France)

11:30 **PL03 - Discovery of Balovaptan, a Vasopressin 1a Receptor Antagonist for the Treatment of Autism**

Dr Patrick SCHNIDER
(ROCHE PHARMACEUTICAL, Schlieren, Switzerland)

12:15 **PL04 - Ghrelin Receptor Ligands: from the Bench to the Drug on the Market**

Dr Jean-Alain FEHRENTZ
(CNRS-UNIVERSITY OF MONTPELLIER, Montpellier, France)

13:00 **Lunch**

13:30 **Poster session and Exhibition**

Session sponsored by Sanofi

Session Chair

Dr Gilbert MARCINIAK
(SANOFI, Strasbourg, France)

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15:00 PL05 - Structure-Based Drug Discovery for G Protein-Coupled Purine Receptors

Prof. Kenneth A. JACOBSON
(NIDDK, Bethesda, United States)

15:45 PL06 - Structure-guided Development of Selective GPCR Ligands

Prof. Peter GMEINER
(FRIEDRICH ALEXANDER UNIVERSITY, Erlangen, Germany)

16:30 Coffee break and Exhibition

Session 2 - Novel Synthetic Methods For Therapeutic Innovation (sponsored by the LabEx MEDALIS)

Session Chair

Dr Alain WAGNER
(CNRS/UNIVERSITY OF STRASBOURG, Illkirch, France)

17:00 PL07 - Late Stage Fluorination for Medicine

Prof. Véronique GOUVERNEUR
(UNIVERSITY OF OXFORD, Oxford, United Kingdom)

17:45 PL08 - Single Electron Processes Enabling Organic Synthesis

Prof. Gary A. MOLANDER
(UNIVERSITY OF PENNSYLVANIA, Philadelphia, United States)

18:30 Welcome and networking reception

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Thursday July 5, 2018

Session sponsored by Janssen Research & Development

Session Chair

Prof. Sebastien PAPOT (UNIVERSITY OF POITIERS, Poitiers, France)
Dr Sandrine GROSSE (JANSSEN, Beerse, Belgium)

08:30 PL09 - Paul Ehrlich Award Lecture - Chemical Biology on the Genome

Prof. Sir Shankar BALASUBRAMANIAN
(UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

Session Session 3 - Biologically Active Chemical Space

Session Chair

Prof. Sebastien PAPOT
(UNIVERSITY OF POITIERS, Poitiers, France)

09:30 PL10 - Ancient and Modern Scaffolds for Biologically Active Chemical Space

Prof. Arasu GANESAN
(UNIVERSITY OF EAST ANGLIA, Norwich, United Kingdom)

Session Session 4 - Chemokine Targeted Drug Discovery

Session Chair

Dr Sébastien ALBRECHT
(UNIVERSITY OF HAUTE-ALSACE, Mulhouse, France)

PL11 - Identification of Chemokine Neutraligands Targeting Atopic Diseases and Hyperalgesia

Dr Jean-Luc GALZI
(CNRS-UNIVERSITY OF STRASBOURG, Illkirch, France)

10:15 Coffee break and Exhibition

Session Session 5 - Advances in GPCR drug discovery

Session Chair

Prof. Marcel HIBERT
(UNIVERSITÉ DE STRASBOURG, ILLKIRCH, France)

11:00 KL01 - Discovery of The Clinical Candidate Ribuvaptan, a Dual Acting Vasopressin V1a/V2 Receptor Antagonist for the Treatment of Heart Failure

Dr Carsten SCHMECK
(BAYER, Wuppertal, Germany)

11:30 KL02 - Discovery of New Brain Penetrating Neuropeptide S Receptor (NPSR) Antagonists

Dr Julien POTHIER
(IDORSIA PHARMACEUTICALS LTD., Allschwil, Switzerland)

Session Session 6 - Advances in Biological Imaging

Session Chair

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

KL03 - Dye-loaded Lipid Nanoparticles: Contrast Agents for Image-guided Surgery and Tools for Drug Delivery

Dr Isabelle TEXIER
(LETI-HEALTH, Grenoble, France)

KL04 - Inducible Chemical-genetic Fluorescent Markers for Bioimaging

Dr Arnaud GAUTIER
(ECOLE NORMALE SUPÉRIEURE, Paris, France)

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12:00 Lunch

12:30 Poster session and Exhibition

13:00 Career Session

Session Session 7 - Challenging Targets and Approaches (sponsored by Institut de Recherche Servier)

Session Chair

Dr Arnaud LE TIRAN
(INSTITUT DE RECHERCHES SERVIER, Croissy sur Seine, France)

14:00 **PL12 - Discovery of Foliglurax, an mGluR4 PAM for the Treatment of Parkinson's Disease**

Dr Stephan SCHANN
(DOMAIN THERAPEUTICS SA, Illkirch, France)

14:45 **PL13 - Potential Therapeutic Targets in the Brain Renin-Angiotensin and Apelinergic Systems for Treatment of Cardiovascular Diseases**

Dr Catherine LLORENS-CORTES
(INSERM/COLLÈGE DE FRANCE, Paris, France)

15:30 **KL05 - Topical Intestinal Agonists of the Bile Acid Receptor TGR5: Controlling Target Engagement by Innovative Molecular Engineering**

Dr Julie CHARTON
(UNIVERSITY OF LILLE, INSTITUT PASTEUR DE LILLE, Lille, France)

Session Session 8 - Understanding Binding Characteristics

Session Chair

Prof. Didier ROGNAN
(CNRS/UNIVERSITY OF STRASBOURG, Illkirch, France)

PL14 - Pharmacophore-based Analysis of Molecular Dynamics Trajectories: Towards Understanding KD of Protein Ligands

Prof. Thierry LANGER
(UNIVERSITY OF VIENNA, Vienna, Austria)

PL15 - Identifying Inter-Helical Interactions Involved in GPCR Structure-Function and the Forces that Determine Receptor-Ligand Residence Time

Dr Alexander HEIFETZ
(EVOTEC, Abingdon, United Kingdom)

KL06 - Drug-target Residence Time – a Misleading Concept

Dr Rutger FOLMER
(SYMERES, Nijmegen, The Netherlands)

16:00 Coffee break and Exhibition

Session Session 9 - Tackling Challenges in Drug Delivery

Session Chair

Prof. Line BOUREL
(FACULTÉ DE PHARMACIE, ILLKIRCH, France)

16:30 **PL16 - Cellular Delivery and Oral Uptake of Cyclic Peptides**

Dr Thomas VORHERR
(NOVARTIS, Basel, Switzerland)

17:15 **PL17 - Nanoparticle-based Strategies in Oncology**

Prof. Jean-Pierre BENOIT
(UNIVERSITY OF ANGERS, Angers, France)

Session Session 10 - Chemistry Driven Biological Exploration

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Session Chair

Prof. Stefan LAUFER
(UNIVERSITY OF TÜBINGEN, Tübingen, Germany)

PL18 - Chemistry as the Helping Tool to Develop New Therapeutic Strategies

Prof. Maria Luz LOPEZ RODRIGUEZ
(COMPLUTENSE UNIVERSITY OF MADRID, Madrid, Spain)

PL19 - Chemical Tools to Probe Reversible Lysine Acetylation

Prof. Manfred JUNG
(ALBERT LUDWIGS UNIVERSITY OF FREIBURG, Freiburg, Germany)

20:00 Banquet

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Friday July 6, 2018

Session 11 - New modalities in Drug Discovery (sponsored by Institut de Recherche Pierre Fabre)

Session Chair

Dr Pascal GEORGE (SCT & INDEPENDENT SCIENTIFIC EXPERT & ADVISER, Longvilliers, France)
Mr Philippe SCHAMBEL (INSTITUT DE RECHERCHE PIERRE FABRE, TOULOUSE, France)

08:30 PL20 - The Confobody Technology, a New Platform to Enable Fragment Screening on GPCRs

Dr Christel MENET
(CONFO THERAPEUTICS, Brussels, Belgium)

**09:15 PL21 - Pierre Fabre Award lecture
PROTAC-mediated Protein Degradation: A New Therapeutic Modality**

Prof. Craig CREWS
(YALE UNIVERSITY, New Haven, CT, United States)

10:00 Coffee break and Exhibition

Session 12 - Chemistry in Living Systems

Session Chair

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

10:30 PL22 - Two Adventures in Chemical Biology - in vivo Chemistry and Real-time Optical Medical Imaging

Prof. Mark BRADLEY
(UNIVERSITY OF EDINBURGH, Edinburgh, United Kingdom)

11:15 PL23 - Therapeutic In Vivo Synthetic Chemistry

Prof. Nori TANAKA
(RIKEN, Saitama, Japan)

12:00 Concluding remarks

Prof. Pascal MARCHAND (UNIVERSITY OF NANTES, Nantes, France)
Prof. Sebastien PAPOT (UNIVERSITY OF POITIERS, Poitiers, France)