

ASMC'13 Moscow

Scientific Program

Sunday May 5, 2013

12:00 **Registration**

14:00 **Pre-symposium Excursions (optional, and subject to registration)**

19:30 **Welcome Reception**

Monday May 6, 2013

08:30 Opening Ceremony

Session Chair

Prof. Peter H. SEEBERGER
(MAX PLANCK INSTITUTE OF COLLOIDS AND INTERFACES, Berlin, Germany)

08:50 Targeting Protein Surfaces Using Designed Proteomimetics

Prof. Andrew HAMILTON
(UNIVERSITY OF OXFORD, Oxford, United Kingdom)

09:40 Design and Optimization of Pyrazinecarboxamide-Based Inhibitors of Diacylglycerol Acyltransferase 1 (DGAT1) Leading to the Clinical Candidate AZD7687

Dr Petra JOHANNESSON
(ASTRAZENECA, Mölndal, Sweden)

10:20 New Inhibitors of the Enzyme Isoprenylcysteine Carboxyl Methyltransferase (ICMT)

Prof. Maria del Mar MARTIN-FONTECHA
(COMPLUTENSE UNIVERSITY OF MADRID, Madrid, Spain)

10:35 Coffee break and Exhibition

11:05 Oligonucleotide Synthesis Interfaced with Molecular Biology and Nanotechnology

Prof. Marvin CARUTHERS
(UNIVERSITY OF COLORADO, Boulder, United States)

11:55 BETting on Epigenetic Targets : From Phenotypic Discovery to First Time in Man

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

12:35 Virtual Screening and Design of New Pharmaceutical Agents Using PASS Approach

Prof. Vladimir POROIKOV
(INSTITUTE OF BIOMEDICAL CHEMISTRY, Moscow, Russia)

12:50 Lunch and Exhibition

Session Chair

Dr Laurent PROVINS
(UCB, Braine-l'Alleud, Belgium)

14:00 Synthetic Organic Photochemistry in Batch and Flow

Prof. Kevin BOOKER-MILBURN
(UNIVERSITY OF BRISTOL, Bristol, United Kingdom)

14:50 The Discovery of the Macrocyclic HCV NS3/4A Protease Inhibitor MK-5172

Dr Michael ROWLEY
(MERCK RESEARCH LABORATORIES, Kriens, Switzerland)

15:30 Novel Synthetic Chemical Chaperones as a New Basis For Amyotrophic Lateral Sclerosis (ALS) Treatment

Prof. Arie-Lev GRUZMAN
(BAR ILAN UNIVERSITY, Ramat Gan, Israel)

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- 15:45** **Discovery of Highly Potent S1P1 Receptor Antagonists with *in vivo* Efficacy**
Dr Jean QUANCARD
(NOVARTIS, Basel, Switzerland)
- 16:00** **Coffee break and Exhibition**
- 16:30** **A New Approach to Tuberculosis Research: The Lilly TB Drug Discovery Initiative**
Dr Philip A. HIPSKIND
(ELI LILLY & COMPANY, Indianapolis, United States)
- 17:10** **Making Molecular Prosthetics via Iterative Cross-Coupling with MIDA Boronates**
Prof. Martin D. BURKE
(UNIVERSITY OF ILLINOIS, Urbana, United States)
- 18:00** **Closing of the day**
- 21:00** **Moscow by Night Tour (free of charge, but subject to registration)**

Tuesday May 7, 2013

Session Chair

Prof. Hans Ulrich STILZ
(NOVO NORDISK, Cambridge, United States)

08:30 Versatile Synthetic Methods: Access to Bioactive Molecules

Prof. Janine COSSY
(ESPCI PARISTECH, Paris, France)

**09:20 EFMC Prize for a Young Medicinal Chemist in Academia
Chemical Approaches to Biology and Therapeutics**

Prof. Gonalo BERNARDES
(INSTITUTO DE MEDICINA MOLECULAR, PORTUGAL & UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

**09:40 EFMC Prize for a Young Medicinal Chemist in Industry
Free-Wilson and Structural Approaches to Co-Optimising Human and Rodent Isoform Potency for
11?-Hydroxysteroid Dehydrogenase Type 1 (11? -HSD1) Inhibitors**

Dr Frederick W. GOLDBERG
(ASTRAZENECA, Macclesfield, United Kingdom)

10:00 Rapid Kinase SAR Generation: an Integrated Approach to Synthesis, Screening and Molecular Design

Dr David PARRY
(CYCLOFLUIDIC LTD, United Kingdom)

10:15 Coffee break and Exhibition

10:45 Highly Anti-inflammatory Dendritic Polyglycerol Sulfates - a Multiple Target Approach

Prof. Rainer HAAG
(FREE UNIVERSITY BERLIN, Berlin, Germany)

11:35 Peptide Chemologics

Dr Lee ROBERTS
(PFIZER, Sandwich, United Kingdom)

12:15 Discovery of Thienoimidazole-Based HCV NS5A Genotype 1a and 1b Inhibitors

Dr Graeme SMITH
(VERTEX PHARMACEUTICALS, Cambridge, United States)

12:30 Lunch and Exhibition

13:30 Poster Session 1

Session Chair

Dr Edmond DIFFERDING
(DIFFERDING CONSULTING, Louvain-la-Neuve, Belgium)

14:30 Organic Molecules as Biological Probes...an exciting journey

Prof. Cristina NEVADO
(UNIVERSITY OF ZURICH, Zurich, Switzerland)

15:20 Discovery and Initial Clinical Results of [¹⁸F]-UCB-H, First PET Radiotracer Targeting Synaptic Vesicle 2A

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Dr Anne VALADE
(UCB, Braine-l'Alleud, Belgium)

16:00 Self-Immolative Spacers in Prodrug/Profluorophore Strategies: Determination of Kinetic Parameters for Release of Single or Multiple Substrates.

Dr Frédéric SCHMIDT
(INSTITUT CURIE, Paris, France)

16:15 Synthetic Approach to Novel Melatonin Receptor Ligands

Mrs Maria VOLKOVA
(MOSCOW STATE UNIVERSITY, CHEMISTRY DEPARTMENT, Moscow, Russia)

16:30 Coffee break and Exhibition

17:00 The Design and Characterization of Targeted Covalent Inhibitors of Btk

Dr Eric SCHWARTZ
(CELGENE AVIOMICS RESEARCH, Cambridge, United States)

17:40 P2X Receptors: ATP-Gated Ion Channels as Novel Drug Targets

Prof. Christa MÜLLER
(UNIVERSITY OF BONN, Bonn, Germany)

18:30 Closing of the day

Wednesday May 8, 2013

Session Chair

Dr Rosa Maria RODRIGUEZ SARMIENTO
(F. HOFFMANN-LA ROCHE, Basel, Switzerland)

- 08:30 Harnessing Synergy Between Natural Products and Synthesis Towards Drug Discovery**
Prof. Goverdhan MEHTA
(UNIVERSITY OF HYDERABAD, Hyderabad, India)
- 09:20 Advances in Targeting Voltage-Gated Sodium Channels with Small Molecules**
Dr Antonio NARDI
(GRÜNENTHAL, Aachen, Germany)
- 10:00 Design, Synthesis and Application Of Fluorinated Amino Acids as Labels to Study the Membrane Active Peptides by Solid State ¹⁹F NMR**
Dr Pavel MYKHAILIUK
(ENAMINE LTD, Kyiv, Ukraine)
- 10:15 Coffee break and Exhibition**
- 10:45 Engineering of Small Non-Antibody Protein Scaffolds as Novel Biopharmaceuticals: from Anticalins to PASylation**
Prof. Arne SKERRA
(TECHNICAL UNIVERSITY MUNICH, München, Germany)
- 11:35 Bitopertin (RG1678), a Potent and Selective Glycine Re-Uptake Inhibitor for the Treatment of Schizophrenia**
Dr Emmanuel PINARD
(F. HOFFMANN-LA ROCHE, Basel, Switzerland)
- 12:15 Fragment-Based Design of Inhibitors of The Antituberculotic Target 1-Deoxy-D-Xylulose-5-Phosphate Synthase Exploiting an Innovative Combination of NMR Techniques**
Mrs Tiziana MASINI
(UNIVERSITY OF GRONINGEN, Groningen, The Netherlands)
- 12:30 Lunch and Exhibition**
- 13:30 Poster Session 2**

Session Chair

Dr Alan D. PALKOWITZ
(ELI LILLY & CO.)

- 14:30 New Strategies in Organic Synthesis: Recent Advances Based on Catalytic Reactions of Boron Reagents**
Prof. James P. MORKEN
(BOSTON COLLEGE, Chestnut Hill, United States)
- 15:20 Identification of a Novel Series of Orexin Receptor Antagonists with a Distinct Effect on Sleep Architecture**
Dr Simona COTESTA
(NOVARTIS, Basel, Switzerland)
- 16:00 Antibody Drug Conjugates for the Treatment of Cancer**
Dr Paul POLAKIS
(GENENTECH, San Francisco, United States)

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16:40 **Coffee break and Exhibition**

17:10 **Metal Catalyzed Arylation of Nucleophiles**

Dr Marc TAILLEFER
(ENSCM, Montpellier, France)

18:00 **From Organic Synthesis to Biomedical Sciences - from Polyhydroxybutyrate (PHB) to Cell-Penetrating Peptides**

Prof. Dieter SEEBACH
(ETH ZURICH, Zürich, Switzerland)

18:50 **Closing of the day**

20:00 **Symposium Banquet (optional, and subject to registration)**

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Thursday May 9, 2013

09:00 **Post-symposium Excursions (optional, and subject to registration)**