

ASMC'09 Kiev

Program

Sunday August 23, 2009

Registration

Welcome reception

Program

Monday August 24, 2009

Opening

Morning Session

Session Chair

Dr Scott A. BILLER
(AGIOS PHARMACEUTICALS, Cambridge, United States)

The Metalated Flatland Conduit to New Synthetic Aromatics and Heteroaromatic Chemistry

Prof. Victor SNIECKUS
(QUEEN'S UNIVERSITY, Ontario, Canada)

C-H Activation: Direct Arylation and Alkenylation of Oxazoles

Dr. Florence MAHUTEAU
(INSTITUT CURIE, ORSAY, France)

Coffee-break

Orally Active, Brain Penetrant Beta-Secretase (BACE) Inhibitors: Consolidating Property-Based and Structure-Based Drug Design

Dr. Stephen HITCHCOCK
(AMGEN INC, Thousand Oaks, United States)

From Structures to Systems: Structure Based Design of Therapeutics and Imaging Probes

Dr. Ulrich WENDT
(SANOFI AVENTIS, Frankfurt, Germany)

Structure-Activity Relationships and Cancer-Cell Selective Toxicity Of Novel Inhibitors of Glioma-Associated Oncogene Homolog 1 (Gli1)-Mediated Transcription

Dr Naoaki FUJII
(ST.JUDE CHILDREN'S RESEARCH HOSPITAL, Memphis, United States)

Molecular Recognition at the Active Site of Catechol-O-Methyl Transferase (COMT): Energetically Favorable Expulsion of a Single Water Molecule with Novel Bisubstrate Inhibitors.

Mr Manuel ELLERMANN
(ETH ZURICH, Zurich, Switzerland)

Lunch and Poster Session 1

Afternoon Session

Session Chair

Prof. Victor SNIECKUS
(QUEEN'S UNIVERSITY, Ontario, Canada)

Bio-Inspired Organocatalysis: From Concepts to Applications in Heterocycle Synthesis

Prof. Magnus RUEPING
(RWTH AACHEN, Aachen, Germany)

Program

Discovery of Ixempratm (ixabepilone), an Etoposide Analogue for Treatment of Metastatic Breast Cancer

Dr. Gregory VITE
(BMS, Princeton, United States)

Design and Synthesis of Novel Polyketide Molecular Frameworks to Access Natural Product-Like Protein-Protein Interaction Inhibitors as Novel Chemotherapeutic Agents

Dr Giovanna ZINZALLA
(LONDON SCHOOL OF PHARMACY, London, United Kingdom)

Coffee-break and Poster Session 1

Compound Collection Enhancement (CCE): Increasing Quality and Size of the AZ Compound Collection

Dr. Kay BRICKMANN
(ASTRA ZENECA, Mölndal, Sweden)

Approach to the Synthesis of Pycnanthuquinone C by Gold(I)-Catalyzed Cyclization of 1,5-Enynes

Ms NURIA HUGUET
(INSTITUTE OF CHEMICAL RESEARCH OF CATALONIA, Tarragona, Spain)

C-H: A New Functional Group for Streamlining Synthesis

Prof. Christina WHITE
(UNIVERSITY OF ILLINOIS, Urbana, United States)

Closing of the day

Program

Tuesday August 25, 2009

Morning Session

Session Chair

Dr Edmond DIFFERDING
(UCB, Braine-l'Alleud, Belgium)

Development and Applications of New Metal-Catalyzed Carbon-Carbon Bond Forming Reactions

Prof. Jonathan A. ELLMAN
(UNIVERSITY OF CALIFORNIA, Berkeley, United States)

Case Histories of Fragment Based Discovery: from Crystal to Clinic

Dr David REES
(ASTEX THERAPEUTICS, Cambridge, United Kingdom)

Design and synthesis of polyfluoroalkyl-containing purine isosters and phospho-purines as a potential Adenosine Deaminase (ADA) and Inosine 5'-monophosphate dehydrogenase (IMPDH) inhibitors

Dr Dmytro VOLOCHNYUK
(ENAMINE, Kyiv, Ukraine)

Coffee-break and Poster Session 1

The Fight against AIDS. The "Old" Reverse Transcriptase (RT) and the "New" DDX3

Prof. Maurizio BOTTA
(UNIVERSITY OF SIENA, Siena, Italy)

Targeting Protein-Protein Interactions: Bcl-2 Family Protein Inhibitors to Treat Cancer

Dr. Steve ELMORE
(ABBOTT LABORATORIES, Abbott Park, United States)

Discovery Biology Fueled with Synthetic Chemicals

Prof. Patrick G. HARRAN
(UNIVERSITY OF CALIFORNIA, Los Angeles, United States)

Lunch & Poster session 1

Afternoon Session: Business Mini-Symposium

Session Chair

Dr Gene VAISBERG
(CHEMBRIDGE CORPORATION, San Diego, United States)

Compound Screenings in Model Plants to Identify New Agrochemicals: Strengths and Limitations

Dr. Dominique AUDENAERT
(GHENT UNIVERSITY, GHENT, Belgium)

Creating a medicinal chemistry created screening library

Dr. Peter BEAN
(CYTOKINETICS, South San Francisco, United States)

Program

Optimization of a Small Molecule Screening Library to support HTS Campaigns Across Diverse Therapeutic Areas and Target Classes

Dr. Andrew.J. GARTON
(OSI PHARMACEUTICALS, Framingdale, United States)

Strategies Toward The Establishment and Evolution of a CNS Focused Small Molecule Screening Collection

Dr. Kevin HODGETTS
(GALENEA, CAMBRIDGE, United States)

Small Molecule Screening Libraries in Drug Discovery: Today & Tomorrow

Dr. Duncan JUDD
(GLAXOSMITHKLINE, Essex, United Kingdom)

JHICC - When Vast Chemical Diversity Meets Ion Channel Targets

Dr Min LI
(JOHNS HOPKINS MEDICAL SCHOOL, Baltimore, United States)

Coffee-break

Navigating the NIH Roadmap - Building a Screening Collection for Discovery of Biological Probes

Dr. Victor PANCHENKO
(BIOFOCUS, San Francisco, United States)

Kinase Inhibitors in Compound Collection of Life Chemicals

Dr. Alexander POKHOLENKO
(LIFE CHEMICALS, Ukraine)

Chemically Validated Combinatorial Approach to Large Libraries of Individual Drug Like Compounds

Dr. Aleksandr SHIVANYUK
(MACROCHEM, Kiev, Ukraine)

Scaffold-based Libraries: It's design and applications

Dr. Bernd WENDT
(EMBL HEIDELBERG, Heidelberg, Germany)

Out-Sourcing Of Small Molecule Screening Libraries: Lessons From The Past, View Into The Future

Dr Gene VAISBERG
(CHEMBRIDGE CORPORATION, San Diego, United States)

Q & A

Closing of the day

Program

Wednesday August 26, 2009

Morning Session

Session Chair

Prof. Valery P. KUKHAR
(INSTITUTE OF BIOORGANIC CHEMISTRY AND PETROCHEMISTRY, Kyiv, Ukraine)

The Chemistry of DNA Repair and DNA Lesion Tolerance

Prof. Thomas CARELL
(LUDWIG-MAXIMILIANS-UNIVERSITY MUNICH, München, Germany)

Design of BCR-Abl Kinase Inhibitors to Treat Imatinib-Resistant Leukaemia

Dr Paul W. MANLEY
(NOVARTIS PHARMA, Basel, Switzerland)

SQUIRREL_{nov}: De Novo Design of a PPAR α Agonist by Bioisosteric Replacement

Dr Evgenij PROSCHAK
(UNIVERSITÄT FRANKFURT, Frankfurt a. M., Germany)

Coffee-break

Discovery of PF-610355: An Inhaled Once-daily Beta-2 Adrenoceptor Agonist for Asthma & COPD

Mr. Paul GLOSSOP
(PFIZER GLOBAL R&D, Sandwich Kent, United Kingdom)

Discovery of NVP-BEZ235, a New Anti-Cancer Drug Candidate Targeting the PI3K/Akt/mTOR Pathway

Dr. Frédéric STAUFFER
(NOVARTIS INSTITUTE FOR BIOMEDICAL RESEARCH, Basel, Switzerland)

Conformational Restriction as a Design Concept for Unnatural Amino Acids

Prof. Igor KOMAROV
(KIEV TARAS SHEVCHENKO UNIVERSITY, Kiev, Ukraine)

Directed Evolution of Enzymes: New Biocatalysts for Organic Synthesis'

Prof. Nicholas John TURNER
(UNIVERSITY OF MANCHESTER, Manchester, United Kingdom)

Lunch and Poster Session 2

Free afternoon

Program

Thursday August 27, 2009

Morning Session

Session Chair

Prof. Gerhard ECKER
(UNIVERSITY OF VIENNA, Vienna, Austria)

A Small Molecule with a Big Impact: Inspirations from Proline Catalysis

Prof. Benjamin LIST
(MAX PLANCK INSTITUTE, Muelheim an der Ruhr, Germany)

The Structure Based Design of Potent, Selective BACE1 Inhibitors as Potential Disease Modifying Treatments for Alzheimer's Disease

Dr AI ROBICHAUD
(SAGE, Princeton, United States)

Chiral Imidates: A New Class of Nitrogen-Based Chiral Ligands.

Prof. Johan VAN DER EYCKEN
(UGENT, Ghent, Belgium)

Coffee-break and Poster Session 2

Orexin Receptor Antagonists – A New Therapeutic Principle in CNS Disorders?

Dr Christoph BOSS
(ACTELION PHARMACEUTICALS LTD, Basel, Switzerland)

Guanidinium Toxins: Unique Natural Products in both Form and Function

Prof. Justin DU BOIS
(STANFORD UNIVERSITY, Stanford, United States)

Cation–Pi Interactions in the S4 Pocket of Factor Xa: Dramatic Enhancement upon N-Alkylation of Ammonium Ions

Ms Laura Maria SALONEN
(ETH ZURICH, Zurich, Switzerland)

Lunch and Poster Session 2

Afternoon Session

Session Chair

Prof. Erick M. CARREIRA
(ETH ZÜRICH, Zürich, Switzerland)

Small Molecule Drug Discovery in the Modern World

Dr Michael VARNEY
(GENENTECH, South San Francisco, United States)

Synthesis of Fluorine Containing Amino Acids with Biological Interest

Prof. Valery P. KUKHAR
(INSTITUTE OF BIOORGANIC CHEMISTRY AND PETROCHEMISTRY, Kyiv, Ukraine)

Program

Building Molecular Complexity via Gold Catalysis

Prof. Antonio M. ECHAVARREN
(INSTITUTE OF CHEMICAL RESEARCH OF CATALONIA (ICIQ), Tarragona, Spain)

Coffee-break

The Discovery of the Oral Antifungal Agent Albaconazole: a Case History

Dr. Xavi BARTROLI
(PALAU PHARMA, Palau de Plegamans, Spain)

New Catalytic Strategies for Chemical Synthesis

Prof. Matthew GAUNT
(UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

Closing Remarks

Symposium banquet