

Global Chemical Biology Landscape

Inaugural Conference of the International Chemical Biology Society

Location:

Kauffman Foundation Conference Center

Kansas City, MO, USA

October 11-12, 2011

Tuesday 11th October 2011

7:15 **Registration Opens**

7:15 **Shuttle Bus Departs from the Intercontinental Hotel**

7:30 **Continental Breakfast**

8:30 **Opening Remarks**

Rathnam Chaguturu, University of Kansas

8:40 **Welcome**

Lesa Mitchell, Kauffman Foundation

8:50 **Keynote Presentation**

Chemical Genomics and Translational Science at NIH

Christopher Austin, NIH

Session: Current Global Chemical Biology Landscapes

Session Leader: Haian Fu, Emory University

9:20 **Chemical Biology in Australia**

Jonathan Baell, Walter and Eliza Hall Institute of Medical Research

9:35 **Chemical Biology Initiatives in China**

Yongjun Chen, National Natural Science Foundation of China

9:50 **Chemical Biology in Europe and EU – OPENSREEN**

Petr Bartunek, Centre for Chemical Genetics, Institute of Molecular Genetics, Czech republic

10:05 **Japanese Chemical Biology Society**

Masatoshi Hagiwara, Kyoto University

10:20 **Chemical Biology in New Zealand**

Paul Teesdale-Spittle, Victoria University of Wellington

10:35 **Chemical Biology and Chemical Genomics in the USA**

Haian Fu, Emory University

10:50 **Coffee and Comfort Break**

Session: Discovery of Small Molecule Modulators – I

Session Leader: Doug Auld, Novartis Institute for Biomedical Research

11:20 **Assessing Structure Activity Relationships Derived from Cell Based Assays**
Doug Auld, Novartis Institute for Biomedical Research

11:45 **Discovery of Small Molecule Protein-protein Interaction Inhibitors**
Yuhong Du, Emory University

12:15 **Phenotypic Screens to Identify Mechanisms Promoting Neuronal Regeneration**
Vance Lemmon, University of Miami

12:40 **Lunch**

Session: Medicinal Chemistry for Chemical Biology

Session Leader: Jeffrey Aube, University of Kansas

2:00 **Heterocyclic Libraries: From Methods to Hits to Probes**
Jeffrey Aube, NIH/MLPCN Specialized Chemistry Center

2:30 **New Approaches to Selective Kinase Inhibitors-Targeting mTor, ATM, ATR and DNA-PK**
Qingsong Liu & Nathanael Gray, Harvard Medical School

3:00 **Rapid Generation of Stereochemically Defined Natural Product like Molecules from Simple Polyene by Asymmetric Catalysis**
Hao Xu, Georgia State University

3:25 **New Cheminformatic Tools for Targeted Polypharmacology**
Philip Hajduk, Abbott Laboratories

4:00 **Coffee and Comfort Break**

Session: Discovery of Small Molecule Modulators – II

Session Leader: Masatoshi Hagiwara, Kyoto University

4:30 **Developing Allosteric Inhibitors to Glutamate Dehydrogenase to Control Insulin Disorders and as a Possible Cancer Treatment**
Thomas Smith, The Donald Danforth Center

4:55 **Regulation of Leukocyte Integrin Affinity and Conformation by Signalling, Small Molecules and Repurposed Drugs**
Larry Sklar, University of New Mexico Health Sciences Center

5:20 **NMR and Drug Discovery: A Systems Biology Perspective**
Robert Powers, University of Nebraska-Lincoln

5:45 **Identifying Inhibitors of Protein Interactions using Pocket Optimization**
John Karanicolas, University of Kansas

6:00 **Social Mixer and Poster Session I**

7:30 **Business Meeting – International Chemical Biology Society**
Melvin Reichman, LIMR Chemical Genomics Center

9:00 **Shuttle Bus Departs Back to the Intercontinental Hotel**

Wednesday 12th October 2011

7:30 **Shuttle Bus Departs from the Intercontinental Hotel**

7:45 **Continental Breakfast**

8:30 **Keynote Presentation**

Introduction by Rathnam Chaguturu

Open Innovation: Hype or Salvation?

Bernard Munos, InnoThink Center for Research in Biomedical Innovation

Session: Small Molecules for Understanding Biology and Disease

Session Leader: Petr Bartunek, Center for Chemical Genetics, Institute of Molecular Genetics

9:10 **New Therapeutics by Alteration of mRNA Expression and Processing with Small Molecules**

Masatoshi Hagiwara, Kyoto University

9:35 **A Chemical Biology Platform Identifies the Molecular Drivers of Adult AML**

Krister Wennerberg, Institute for Molecular Medicine Finland

9:50 **Synthetic and Endogenous Modulators of the Epigenome**

Charles Brenner, Carver College of Medicine, University of Iowa

10:20 **Antiparasitics: Target-based or Whole Cell Screening? Exemplification in the Genus Trypanosoma**

Jonathan Baell, Walter and Eliza Hall Institute of Medical Research

10:45 **Coffee and Comfort Break**

11:05 **Small Molecules as Tools for Stem Cell Biology**

Petr Bartunek, Center for Chemical Genetics, Institute of Molecular Genetics

11:30 **Design of Small-Molecule Modulators of Apoptosis: Therapeutic Applications and Powerful Tools for Understanding Basic Biology**

Shaomeng Wang, University of Michigan

11:55 **Lunch and Poster Session II**

Session: Natural Products for Chemical Biology

Session Leader: Lixin Zhang, Institute of Microbiology, Chinese Academy of Sciences

1:30 **Discovery of Synergistic Antifungal Inhibitors from Microbial Natural Products**

Lixin Zhang, Institute of Microbiology, Chinese Academy of Sciences

1:45 **Chemical Biology of Marine Bioactives from New Zealand**

Paul Teesdale-Spittle, Victoria University of Wellington

2:00 **Herbal Resource Chemistry**

Jinao Duan, Nanjing University of Chinese Medicine

2:15 **Identification of Herbal Compounds Against Cancer Cells by High-throughput Screening**
Xu Zhang, Nanjing University of Chinese Medicine

Session: Academia-Industry-Government Partnerships
Session Leader: Kapil Bhalla, Kansas University Medical Centre

2:30 **Herding the Cats to the Promised Land: Strategies to De-risk Open Innovation-based Precompetitive Drug Discovery Initiatives**
Rathnam Chaguturu, University of Kansas

2:55 **Open Innovation in Drug Discovery: Role of Non-profits**
Krishna Kodukula, SRI International

3:20 **Aggregating Resources with CTSA-IP as a Stimulus to Public:Private Partnership**
Mark Scheideler, HumanFirst Therapeutics

3:45 **A New Public-Private Paradigm for Innovative Resource Sharing in Drug Discovery**
Melvin Reichman, LIMR Chemical Genomics Center

4:15 **Student Awards**
Award Selection Committee

5:00 **Closing Remarks** Rathnam Chaguturu, Haian Fu, Melvin Reichman and Petr Bartunek

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