

# ITMAT 7<sup>th</sup> Annual International Symposium October 16-17, 2012 Perelman School of Medicine University of Pennsylvania

Translational Research Center Arthur H. Rubenstein Auditorium 3400 Civic Center Boulevard Philadelphia, PA

Systems Pharmacology and Translational Medicine

DAY 1 - October 16

8:15 Registration and breakfast (TRC Lobby)

#### 9:15 Introduction

J. Larry Jameson, MD, PhD, Executive Vice President, University of Pennsylvania for the Health System, and Dean, Perelman School of Medicine, University of Pennsylvania

Session 1 Global Approaches to Translational Medicine (part 1)

Session Chairs: Ralph W. Muller, CEO, University of Pennsylvania Health System (UPHS), and Arthur H. Rubenstein, MBBCH, Professor of Medicine, Department of Medicine, Division of Endocrinology, Diabetes and Metabolism, Raymond and Ruth Perelman School of Medicine, University of Pennsylvania

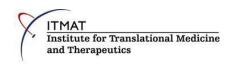
9:30 Jeffrey S. Flier, MD, Dean, Harvard Medical School

New Initiatives to Foster Translational Science at Harvard Medical School

10:00 Cyril Chantler MD, FRCP, FRCPH, Chairman, UCLPartners Academic Health Science Partnership, UK

UCLP: An Academic Health Science Partnership

10:30 Coffee break



### Session 1 Global Approaches to Translational Medicine (part 2)

Session Chairs: Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology; Vice Chair, Research, Ophthalmology, Perelman School of Medicine University of Pennsylvania, and Tom Curran, PhD, FRS, Deputy Scientific Director, The Children's Hospital of Philadelphia Research Institute, Professor of Pathology and Laboratory Medicine, Cell & Developmental Biology, Perelman School of Medicine, Associate Director Translational Genomics, University of Pennsylvania

11:00 Christopher P. Austin, MD, Director, National Center for Advancing Translational Sciences, NIH

### Translational Therapeutics Development at NIH

11:30 Mark R. Trusheim, MS, Executive in Residence and Visiting Scientist at the Massachusetts Institute of Technology (MIT) Sloan School of Management, USA, and President of Co-Bio Consulting LLC, USA.

Drug Development Economics in a Stratified World

Noon -1pm LUNCH

# Session 2 Translational Therapeutics (part 1)

Session Chairs: Sir Keith Peters, FRS, FRCP, Emeritus Regius Professor of Physic, University of Cambridge, and Lisa M. Guay-Woodford, MD, Hudson Professor of Pediatrics, Associate VP for Clinical and Translational Research, The George Washington University, Director, Center for Clinical and Community Research, Director, CTSI-CN, Children's National Medical Center

1:00 Steve Brown, PhD, Medical Research Council Mammalian Genetics Unit, Harwell, UK

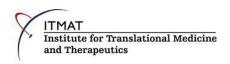
Mouse Models and Translational Research: Insights into Otitis Media and Novel Therapeutic Opportunities

1:30 Kathleen M. Giacomini, PhD, University of California, Department of Bioengineering and Therapeutic Sciences

Transporter Systems in Drug Development

2:00 Padraic Fallon, BSc, MSc, PhD, School of Medicine, Trinity College Dublin

Translating Science into Drug Discovery: an Alliance of Basic and Clinician Scientist



- 2:30 Coffee break
- 3:00 Peter Schultz, PhD, Department of Chemistry; The Scripps Research Institute

A Chemist's Foray into Translational Research

3:30 Carl June, MD, Professor of Pathology and Laboratory Medicine, and Program Director for Translational Research in the Abramson Family Cancer Research Institute, Perelman School of Medicine, University of Pennsylvania

Engineered T cells: muscle CARs and sports CARs for Cancer

#### Conference Dinner

6:30 PM Reception and dinner at The College of Physicians of Philadelphia,

19 South 22 <sup>nd</sup> Street, Philadelphia

Dinner Speaker: Vijay Kumar, PhD, UPS Foundation Professor, Department of Mechanical Engineering and Applied Mechanics, University of Pennsylvania

Agile, Autonomous, Aerial Robots

Transportation will be provided to and from the dinner. Buses will depart from the front of the Perelman Center for Advanced Medicine (circular driveway in front of building that connects to the Translational Research Center) at 6:10PM and will return to the Hilton Inn at Penn at approximately 9PM.

Speakers and chairs may take a shuttle bus from the Hilton Inn at Penn, Walnut Street entrance, departing at 6:10PM, returning to the hotel at approximately 9PM

DAY 2 - October 17

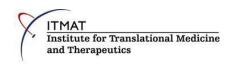
## 8:30 Registration and breakfast (TRC Lobby)

Session 2 Translational Therapeutics (part 2)

Session Chairs: William W. Chin, MD, Executive Dean for Research, Bertarelli Professor of Translational Medical Science, Professor of Medicine, Harvard Medical School and Robert H. Vonderheide, MD, DPhil, Associate Professor of Medicine, Abramson Family Cancer Research Institute, Associate Director for Translational Research, Abramson Cancer Center, Perelman School of Medicine, University of Pennsylvania

9:15 David Artis, PhD, University of Pennsylvania, Perelman School of Medicine, Department of Microbiology, Institute for Immunology

Translating Immunology: New Insights into the Pathogenesis and Treatment of Chronic Inflammatory Diseases in Humans



9:45 Atul Butte, MD, PhD, Chief, Division of Systems Medicine, Department of Pediatrics, Associate Professor, Stanford University School of Medicine, Director, Center for Pediatric Bioinformatics, Lucile Packard Children's Hospital

Transforming 300 Billion Points of Data into Diagnostics, Therapeutics, and New Insights into Disease

10:15 Coffee Break

### Session 3 Individualization of therapy.

Session Chairs: Desmond Fitzgerald, MD, Professor of Molecular Medicine, Conway Institute of Biomolecular and Biomedical Research, University College Dublin, and Vice President for Research, University College Dublin and Rebecca D. Jackson, MD, Associate Dean for Clinical Research, Director OSU Center for Clinical and Translational Science and Professor, Division of Endocrinology, Diabetes and Metabolism, The Ohio State University Wexner Medical Center

10:45 John M. Maris, MD, Giulio D'Angio Endowed Professor of Pediatrics, Chief, Division of Oncology, Director, Center for Childhood Cancer Research, Children's Hospital of Philadelphia, Perelman School of Medicine at the University of Pennsylvania

Promises and Obstacles towards the Individualization of Pediatric Cancer Therapy

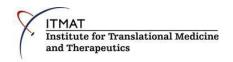
11:15 Hal Dietz, MD, Victor A. McKusick Professor of Medicine and Genetics Investigator, Howard Hughes Medical Institute Director, William S. Smilow Center for Marfan Syndrome Research Institute of Genetic Medicine Departments of Pediatrics, Medicine, and Molecular Biology & Genetics Johns Hopkins University School of Medicine

Found in Translation: New Insights into the Pathogenesis and Treatment of Marfan Syndrome and Related Disorders

11:45 Lunch

### Session 4 Systems Pharmacology

Session Chairs: Gordon R. Bernard MD, Melinda Owen Bass Professor of Medicine, Associate Vice Chancellor for Research, Senior Associate Dean for Clinical Sciences, Vanderbilt University, and John B. Hogenesch, PhD, Professor of Pharmacology and Associate Director of the Penn Genome Frontiers Institute, Perelman School of Medicine, University of Pennsylvania



1:00 Hugh Rosen, MBChB, DPhil, Chemical Physiology and Immunology, The Scripps Research Institute

Sideways Signaling: Unexpected Fingerposts in Sphingosine 1-Phosphate Receptor Therapeutics

1:30 Ravi Iyengar, PhD, Dorothy H and Lewis Rosenstiel Professor and Chair, Department of Pharmacology and Systems Therapeutics, Director, Experimental Therapeutics Institute, Director, Systems Biology Center New York, Mount Sinai School of Medicine

Systems Pharmacology Perspective of Drug Action

- 2:00 Coffee Break
- 2:15 Christopher K. Glass, MD, PhD, Cellular and Molecular Medicine, UC San Diego

Genomics and Lipidomics of Macrophage Activation

2:45 Matthias Mann, Director, Department of Proteomics and Signal Transduction, Max Planck Institute of Biochemistry, Martinsried, Germany

Proteomics for Systems-Wide Approaches in Cell Line, Animal and Human Systems

3:15 Garret A. FitzGerald, MD, FRS, Robert L. McNeil, Jr. Professor in Translational Medicine and Therapeutics, Chair, Department of Pharmacology, Director of ITMAT, Perelman School of Medicine, University of Pennsylvania

**Concluding Remarks** 

### Coffee

Funding for this conference was made possible in part by R13TR000047-04 from the National Center for Advancing Translational Sciences. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.



