



INDIANA UNIVERSITY

SCHOOL OF MEDICINE

*The Fourth Annual
Indiana Clinical and Translational
Sciences Institute (CTSI)
Symposium on Disease and
Therapeutic Response Modeling*

November 12-13, 2014

IUPUI Campus Center



INDIANACTSI
Clinical and Translational Sciences Institute

Wednesday - November 12, 2014

8:00 – 8:30 AM Breakfast / Registration

Welcoming Remarks:

Anantha Shekhar, M.D., Ph.D., Associate Dean for Translational Research, Director of the Indiana Clinical and Translational Sciences Institute (CTSI), Professor of Pharmacology and Neurobiology, School of Medicine, Indiana University

8:30 – 9:00 AM

Welcoming Remarks:

Robert Bies, Pharm.D., Ph.D., Associate Professor of Medicine and Molecular Genetics, Director of the Disease and Therapeutic Modeling Program for the Indiana Clinical and Translational Sciences Institute (CTSI), School of Medicine, Indiana University

9:00 – 10:00 AM

Keynote Address:

Jamie Dananberg, M.D., Head of Therapeutic Area Leads - Takeda Pharmaceuticals
"TBA"

10:00 – 10:40 AM

Anantha Shekhar, M.D., Ph.D., Associate Dean for Translational Research, Director of the Indiana Clinical and Translational Sciences Institute (CTSI), Professor of Pharmacology and Neurobiology, School of Medicine, Indiana University

"Overview of Indiana CTSI and developing quantitative methodologies and training for translational medicine"

10:40 – 11:00 AM

Break

11:00 – 11:40 AM

Michael Brier, Ph.D. Professor of Medicine, School of Medicine, University of Louisville
"Computational approaches to precision medicine"

11:40 – 12:20 PM

Jiang Liu, Ph.D. Food and Drug Administration (FDA)
"Disease and therapeutic modeling at the FDA"

12:20 – 1:30 PM

Lunch and Poster Session

1:30 – 2:10 PM

Sandy Pang, Ph.D. Professor of Pharmacy and Pharmacology, Faculty of Pharmacy and Medicine, University of Toronto

"Interplay of 1,25-dihydroxyvitamin D3 pharmacokinetics and pharmacodynamics: Intricacies for dose-dependent kinetics"

2:10 – 2:50 PM

Donald Mager, Pharm.D., Ph.D. Associate Professor of Pharmaceutical Sciences, School of Pharmacy, University of Buffalo

"Developmental and clinical implications of target-mediated drug disposition"

2:50 – 3:10 PM

Break

3:10 – 3:50 PM

Sean Mooney, Ph.D. Associate Professor, Buck Institute
"TBA"

3:50 – 4:30 PM

Mark Sale, M.D. President, Next Level Solution LLC.

"Joint likelihood model for medication compliance and PK - correcting for errors in MEMS data"

4:30 – 5:10 PM

John Urquhart, M.D. AARDEX Group, S.A.

"Differentiating various causes of resistance to chronic-use drugs in ambulatory care"

Thursday - November 13, 2014

8:00 – 8:30 AM

Breakfast

8:30 – 9:10 AM

Nick Holford Professor of Clinical Pharmacology, Department of Pharmacology and Clinical Pharmacology, University of Auckland

“Systems pharmacology – a novel approach to the prediction of clinical outcome?”

9:10 – 9:50 AM

Stephen Hall, Ph.D. Senior Research Fellow, Eli Lilly and Company

“Improving Patient Experiences Through Mechanistic Modelling of Drug disposition”

9:50 – 10:10 AM

Break

10:10 – 10:50 AM

Sorell Schwartz, Ph.D. Professor Emeritus of Pharmacology, Georgetown University Medical Center

“TBA”

10:50 – 11:30 AM

Tim Bergsma, Ph.D. Senior Scientist II, Metrum Research Group LLC

“Self-auditing Data Tables for Pharmacometric Analyses”

11:30 – 12:10 AM

Benjamin Ribba, Ph.D. Researcher, INRIA, France

“Application of Model-Based Approaches to Oncology Drug Development”

12:10 – 1:10 AM

Lunch

1:10 – 1:50 PM

Li Shen, Ph.D. Associate Professor, School of Medicine, Indiana University

“Genetic analysis of quantitative phenotypes in AD and MCI: Imaging, cognition and biomarkers”

1:50 – 2:30 PM

Joaquin Goni, Ph.D. Assistant Research Scientist, Indiana University

“TBA”

2:30 – 2:50 PM

Break

2:50 – 3:30 PM

Michael Heathman, Group Leader, Global Pharmacometrics, Eli Lilly and Company

“A Joint Concentration-Response Model for ABPM Measurements of Systolic and Diastolic Blood Pressure”

3:30 – 4:10 PM

Nieves Velez de Mendizabal, Ph.D. Senior Research Scientist, Eli Lilly and Company

“Population analysis of citalopram sleep architecture changes in rats: a potential tool for translation to human responses”

4:10 – 4:20 PM

Closing remarks:

Robert Bies, Pharm.D., Ph.D., Associate Professor of Medicine and Molecular Genetics, Director of the Disease and Therapeutic Modeling Program for the Indiana Clinical and Translational Sciences Institute (CTSI), School of Medicine, Indiana University