



New Approaches to Metabolomics Research

March 14, 2017

Owens Auditorium, Cancer Research Building
1550 Orleans St, Baltimore, MD 21287

9:00am-9:30am Check-in & Coffee Service

9:30am-12:00pm Program

12:00pm-1:00pm Boxed Lunch Pickup & Core Leader Interactions

Agenda Outline

9:30am (Part I: 30 min)

I. Metabolomics Resources at JHU

- *Welcome & Introduction of the JHU ICTR and the Translational Research Community (TRC), Grant Initiative of the Metabolomics Core* – Rana Rais, PhD, Assistant Professor of Neurology; Director of Drug Metabolism & Pharmacokinetics Core of the JH Drug Discovery Program
- *General Discussion of Metabolomics: Experimental Design, Metabolite Extraction, Data Acquisition & Data Analysis* – Anne Le, MD, HDR, Associate Professor of Pathology & Oncology; Director of Le Cancer Metabolomics Research Laboratory; Director of ICTR Metabolomics Program.
- *Hartung and Le lab joining-force for Johns Hopkins Metabolomics Program* – Thomas Hartung, MD, PHD, Professor of Environmental Health and Engineering; Doerenkamp-Zbinden Chair of in-vitro Toxicology and Biomedicine/Alternatives to Animal Experimentation (CAAT) – Europe and Director of the JHU Center for Alternatives to Animal Testing (CAAT)

10:00am (Part II: 60min)

II. Metabolomic Research Applications

- *KEYNOTE: Aging and the metabolome: modulation by oxidative capacity and obesity* – Charles Burant, MD, PhD, Dr. Robert C. and Veronica Atkins Professor of Metabolism; Professor of Internal Medicine, and Molecular & Integrative Physiology, University of Michigan

- *Monitoring N-acetyl-aspartate (NAA) in Patients with Spontaneous Intracerebral Hemorrhage for Prognostication* – Wendy Ziai, MD, Associate Professor of Neurology; Medical Director of Neurovascular Laboratory

11:00am *Break*

11:05am (Part III: 60min)

- *KEYNOTE: Translational Research Guided by Metabolomics* – Gary Siuzdak, PhD, Professor of Chemistry, Molecular and Computational Biology; Senior Director of Center for Metabolomics and Mass Spectrometry, Scripps Research Institute
- *Circumventing Tumor Resistance to Chemotherapy by Targeting Glutamate Metabolic Pathway* - Tian-Li Wang, PhD, Professor of Pathology

12:05pm

- *Thank You & Closing Remarks* - Barbara Slusher, MAS, PhD, Co-Leader of the ICTR Drugs/Biologics/Vaccines/Devices Translational Research Community; Director of JH Drug Discovery Program, Professor of Neurology, Medicine, Psychiatry, Neuroscience and Oncology