

SY-03

Room C October 2 (Tue.) 10 : 00~12 : 00

Metabolomics in diseases and translational research

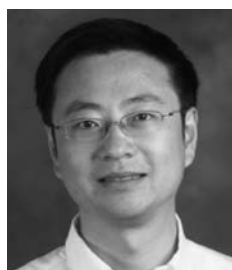
Chair : Mitsutoshi Setou International Mass Imaging Center, Hamamatsu University School of Medicine
Wei Jia University of Hawaii Cancer Center, Honolulu, HI, USA

SY-03-01

Bile acid-microbiota crosstalk in drug metabolism and gastrointestinal carcinogenesis

Wei Jia

University of Hawaii Cancer Center, HI, USA



He is currently Professor at University of Hawaii at Manoa, and Associate Director of the University of Hawaii Cancer Center (a National Cancer Institute designated cancer center). Previously, he has been a Professor at University of North Carolina at Greensboro and Co-Director of UNCG Center for Translational Biomedical Research for about 5 years. Prior to his appointment with UNCG, Dr. Jia worked in China for 10 years, as Professor and Executive Vice Dean at College of Pharmaceutical Science, Tianjin University, and Professor and Vice Dean for Research, School of Pharmacy, Shanghai Jiao Tong University.

SY-03-02

Intestinal epithelial cell receptors as modulators of host-microbiota communication

Andrew D Patterson

Center for Molecular Toxicology and Carcinogenesis, Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, PA, USA



He is an Associate Professor of Molecular Toxicology at the Pennsylvania State University, University Park, PA and is the Scientific Director of Metabolomics. He and his students, postdocs, and collaborators focus on understanding the host-metabolite-microbiota communication network-specifically how the manipulation of gut microbiota by diet and/or xenobiotics impacts host metabolites (e.g., bile acids, short chain fatty acids), their metabolism, and how these co-metabolites interact with host nuclear/soluble receptors (e.g., farnesoid X receptor, aryl hydrocarbon receptor). The lab employs a variety of tools, including NMR- and mass spectrometry-based metabolomics, genomics, and conventional and gnotobiotic transgenic mice, to facilitate its study of these pathways and understand their impact on human health and disease.

SY-03-03**Mass spectrometry imaging for metabolomics in diseases and translational research**

Mitsutoshi Setou

International Mass Imaging Center, Hamamatsu University School of Medicine



He graduated as the valedictorian from School of Medicine in the University of Tokyo in 1994. He was elected as an exchange student to Harvard Medical School in 1994. He was an internal medicine and surgery residency, and also a physiology researcher at the University of Tokyo Hospital from 1994- 1996. He was a graduate student 1996-1998, and was picked up as an assistant professor (tenured) at Department of Cell Biology and Anatomy, the University of Tokyo in 1998. He received a medical Ph. D. by Tokyo University, Graduate School of Medicine in 2001. He was selected as visiting researcher at European Molecular Biology Laboratory in 2002. He was appointed as an associate professor (tenured) at National Institute for Physiological Sciences in 2003. He was elected as a sabbatical researcher of Japan ministry of education at Medical Research Council (MRC) Cambridge in 2006. He was appointed as a professor and chairman at Department of Molecular Anatomy, Hamamatsu University School of Medicine in 2008. Cross appointed An adjunct Professor at National Institute for Physiological Science in 2010, a professor and chairman at Department of Cell Biology and Anatomy, Hamamatsu University School of Medicine in 2011, ISO committee member, Graduate School of Technology of the University of Tokyo in 2012, a honorary professor at the University of Hong Kong in 2013. He is just selected to be a president of international mass imaging center of Japan 2016.

SY-03-04**DESI-mass imaging analysis of the distribution of geissoschizine methyl ether in the brains of rats**

Takashi Matsumoto

Tsumura Kampo Research Laboratories, Kampo Research & Development Division, Tsumura & Co.



2011	Graduated from Graduate School of Pharmaceutical Sciences, Tokyo University of Pharmacy and Life Sciences
2011-present	Pharmacokinetics group, Tsumura Kampo Research Laboratories, Kampo Research & Development Division, Tsumura & Co.
2017	Ph.D., Graduate School of Pharmaceutical Sciences, Fukuoka University

SY-03-05

***In vivo* dynamic imaging of Bcrp transport function and inhibition using pheophorbide A**

Kazuto Yasuda

Department of Pharmaceutical Sciences, St. Jude Children's Research Hospital, TN, USA



Kumamoto University, Kumamoto, Japan, B.S., 03/1996, Pharmaceutical Sciences
Kumamoto University, Kumamoto, Japan, M.S., 03/1998, Pharmaceutical Sciences
Kumamoto University, Kumamoto, Japan, Ph.D., 12/2009, Pharmaceutical Sciences

A. Personal Statement

My research focuses on the areas of: 1) identify ADME gene expression and function in brain arachnoid cell, 2) Predicting drug disposition and drug-drug interaction regulated by nuclear hormone receptor, 3) identify novel substrates of metabolic enzymes, transporters and nuclear receptors

B. Positions and Honors

1999-2004	Sr. Research Technologist, Dept of Pharm. Sciences, St. Jude Children's Research Hospital, Memphis, TN
2004-2013	Research Lab Specialist, Dept of Pharm, Sciences, St. Jude Children's Research Hospital, Memphis, TN
2013-present	Associate Scientist, Dept of Pharm, Sciences, St. Jude Children's Research Hospital, Memphis, TN
Honors	
2001	American Society for Pharmacology & Experimental Therapeutics James Gillette Drug Metabolism and Disposition Best Paper Award
2002	American Association of Pharmaceutical Sciences Meritorious Manuscript Award