

SY-04

Room A October 2 (Tue.) 14 : 30~16 : 30

New perspectives on intestinal drug absorption and metabolism

Organizer :	Akihiro Hisaka	Graduate School of Pharmaceutical Sciences, Chiba University
Chair :	Akihiro Hisaka	Graduate School of Pharmaceutical Sciences, Chiba University
	K. Sandy Pang	Leslie Dan Faculty of Pharmacy, University of Toronto, Canada

SY-04-01

Discrimination of metabolism and transport contributions in intestinal clearance by mechanistic static model

Akihiro Hisaka

Clinical Pharmacology and Pharmacometrics, Graduate School of Pharmaceutical Sciences, Chiba University



He graduated Hokkaido University in 1982 and received MS degree from Faculty of Pharmacy, Hokkaido University in 1984. From 1984 to 2005, he worked for Banyu Pharmaceutical Co. Ltd (current name: MSD) as a research scientist of pharmacokinetics, drug metabolism and clinical pharmacology. He received PhD from Graduate School of Pharmaceutical Sciences, the University of Tokyo in 1999 under supervision of Prof. Yuichi Sugiyama. In 2005, he became a lecturer in Department of Pharmacy, the University of Tokyo Hospital. In 2007, he assigned as project associate professor of Pharmacology and Pharmacokinetics, the University of Tokyo Hospital. On April 2014, he became professor at Laboratory of Geriatric Pharmacology and Therapeutics (currently, Laboratory of Clinical Pharmacology and Pharmacometrics), Graduate School of Pharmaceutical Sciences, Chiba University. He worked for documentation of the Japanese guideline of drug-drug interaction which was recently finalized.

SY-04-02

Physiologically based pharmacokinetic modeling of intestinal metabolism

K. Sandy Pang

Leslie Dan Faculty of Pharmacy, University of Toronto, Canada



She received her BSc (Pharmacy) from the University of Toronto then Ph.D. from the University of California at San Francisco with Dr. Malcolm Rowland. After a postdoctoral fellowship at NIH with Dr. James R. Gillette, Sandy started her career in academia. She is now Professor of Pharmacy and Pharmacology at the University of Toronto. Sandy's work covers fields in pharmacokinetics and drug metabolism/transport and regulation/influence of nuclear receptors. Her research aims towards a mechanistic understanding of drug and metabolite handling, by embracing experimentation on organ or whole body, physiologically-based pharmacokinetic and pharmacodynamic modeling, and pharmacological pursuits. Her works on the vitamin D receptor reveals VDR regulation of CYP7A1, rate-limiting enzyme in cholesterol metabolism on lowering cholesterol via repression of the small heterodimer partner, and up-regulation of the multidrug resistance associated protein for reducing brain beta amyloid peptides. Sandy has served on various leadership positions in AAPS, AAAS, ASPET, and ISSX and has published over 250 original articles/chapters/reviews. She was the recipient of the NIH Research Career Development Award, Faculty Development award from MRC Canada, McNeil Award from Faculties of Pharmacies in Canada, Research Achievement Award in PPDM from AAPS and Award from the Nagai Foundation.

SY-04-03

Characteristic and kinetic analysis of gastrointestinal water dynamics affecting oral drug absorption

Yoshiyuki Shirasaka

Biopharmaceutics, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences



2002	B.S., Faculty of Pharmaceutical Sciences, Setsunan University
2004	M.S., Graduate School of Pharmaceutical Sciences, Setsunan University
2007	Ph.D., Graduate School of Pharmaceutical Sciences, Setsunan University
2007-2008	Assistant Professor, Faculty of Pharmaceutical Sciences, Tokyo University of Science
2008-2013	Assistant Professor, Faculty of Pharmacy, Kanazawa University
2012-2014	Visiting Scientist, School of Pharmacy, University of Washington
2012-2013	JSPS Postdoctoral Fellow for Research Abroad
2013-2014	The Uehara Memorial Foundation Research Fellow
2015-Present	Associate Professor, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences

SY-04-04**A novel physiologically-based absorption model considering gastrointestinal fluid dynamics**

Satoru Suzuki

Biopharmaceutics, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences



2013-present School of Pharmacy, Tokyo University of Pharmacy and Life Science

SY-04-05**Determination of scaling factors of CYP3A and P-gp to predict FaFg of those substrates with the use of ADAM/M-ADAM models (Simcyp^R)**

Atsuko Tomaru

RIKEN Baton Zone Program, RIKEN Cluster for Science, Technology and Innovation Hub, RIKEN



1988-1991 Meiji College of Pharmacy, Bachelor of pharmacy
 1991-2008 GlaxoSmithKline K.K
 2008-2012 Shin Nippon Biomedical Laboratories, LTD
 2009-2012 Hoshi University, Doctor of pharmacy
 2012-Present CoreMed Corporation, Sugiyama Laboratory (visiting researcher)