

SY-02

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

Needs meet seeds**-Unlimited potential of Liver microphysiological system-**

Organizer :	Shuichi Sekine	Faculty of Pharmaceutical Sciences, Chiba University/ Shiseido Global Innovation Center
Chair :	Kenji Tabata	Astellas Pharma Inc.
	Shuichi Sekine	Faculty of Pharmaceutical Sciences, Chiba University/ Shiseido Global Innovation Center

SY-02-01**Needs for liver microphysiological system in drug discovery Research
-Lessons from bioprinted human liver tissue model-**

Masato Ohbuchi
Astellas Pharma Inc.



2008.3 M.S. Tohoku University
2008.4 Drug Metabolism Research Labs, Astellas Pharma Inc.
2013.3 Ph.D. Tohoku University
2014.4- Analysis & Pharmacokinetics Research Labs, Astellas Pharma Inc.

SY-02-02**Industrial perspective on MPS technology as advanced *in vitro* ADME model in pharmaceutical development**

Takafumi Komori
Eisai Co., Ltd.



1999 Ph.D., Graduate School of Pharmaceutical Science, Kumamoto University
1999-2009 Scientist, Drug Metabolism and Pharmacokinetics (DMPK), Eisai Co., Ltd.
2003-2005 Visiting Postdoctoral Scholar, Department of Biopharmaceutical Science, UCSF
2009-2013 Principal Scientist, DMPK, Eisai Co., Ltd.
2013-2016 Director, DMPK Group 1, Eisai Co., Ltd.
2016-present Senior Director, DMPK Tsukuba, Eisai Co., Ltd.

SY-02-03

Organ(s)-on-chips mimicking physiological parameters

Hiroshi Kimura

Department of Mechanical Engineering, Tokai University



He graduated with a PhD in bioengineering from the University of Tokyo in Japan, and with postdoctoral degrees from Institute of Industrial Science (IIS), the University of Tokyo (Supervisor: Prof. Teruo Fujii). Currently, he is an associate professor at Tokai University since 2012. His research interest is mainly in fundamental technologies of Microfluidic Devices and Systems, and their applications to biological sciences including a Body/Organ - on - a - chip.

SY-02-04

Body on a chip to recapitulate physiological conditions *in vitro*

Kenichiro Kamei

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Department of Biological Information
2000. 4 . 2003. 3 Research Fellow of the Japan Society for the Promotion of Science
Department of Biological Information Tokyo Institute of Technology,
Japan
2003. 4 . 2006. 4 Postdoctoral fellow, Department of Molecular and Medical
Pharmacology University of California, Los Angeles, USA
2006. 5 . 2009. 7 Postdoctoral fellow, Department of Molecular and Medical
Pharmacology University of California, Los Angeles, USA
2009. 7 . 2010. 5 Staff Research Associate, Department of Molecular and Medical
Pharmacology University of California, Los Angeles, USA
2010. 5 . 2015. 6 Program-Specific Research Center Assistant Professor, Institute for
Integrated Cell-Material Sciences (WPI-iCeMS), Kyoto University
2015. 7 . 2016. 2 Program-Specific Research Center Associate Professor, Institute for
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2015. 10 . Current Adjunct Lecturer, Faculty of Biological and Medical Sciences,
Doshisha University
2018. 4 . current Associate Professor and Principle Investigator, Institute for Integrated
Cell-Material Sciences (WPI-iCeMS), Kyoto University

SY-02-05**Establishment of preclinical models for refractory cancers by organoid culture and its application for drug discovery**

Yoshimasa Saito

Division of Pharmacotherapeutics, Faculty of Pharmacy, Keio University



1996	M.D. (Medicine), School of Medicine, Keio University
1996-1999	Resident, Department of Internal Medicine, Keio University Hospital
1999-2002	Research Resident, Pathology Division, National Cancer Center Research Institute
2002	Ph.D. (Internal Medicine), School of Medicine, Keio University
2002-2004	Clinical Fellow, Department of Internal Medicine, School of Medicine, Keio University
2004-2007	Postdoctoral Fellow, Department of Biochemistry and Molecular Biology and Urology, USC/Norris Comprehensive Cancer Center, University of Southern California
2007-2010	Assistant Professor, Department of Internal Medicine, Keio University School of Medicine
2010-2011	Head, Department of Gastroenterology, Kitasato Institute Hospital
2011-present	Associate Professor, Division of Pharmacotherapeutics, Keio University Faculty of Pharmacy

SY-02-06**Development of biomimetic small intestine- and liver-on-a-chip for pharmacokinetic assessment**

Tamihide Matsunaga

Department of Clinical Pharmacy, Graduate School of Pharmaceutical Sciences, Nagoya City University



1986	Ph.D. Kyushu University
1986-1988	Postdoctoral Fellow, Laboratory of Molecular Carcinogenesis, National Cancer Institute (NCI), National Institutes of Health (NIH)
1988-1994	Research Associate, Department of Hygienic Chemistry, Faculty of Pharmaceutical Sciences, Hokuriku University
1994-2001	Assistant Professor, Department of Hygienic Chemistry, Faculty of Pharmaceutical Sciences, Hokuriku University
2001-2009	Associate Professor and Vice-Director, Department of Pharmacy, Shinshu University School of Medicine, University Hospital
2009-present	Professor, Department of Clinical Pharmacy, Graduate School of Pharmaceutical Sciences, Nagoya City University