

## Oral Presentation Program

Session	Date and Time	Room	Chairs	Presentation Number	Speaker	Subject Title
Oral Presentation 1 BO Award Finalist	November 9 (Wed.) 9:00~11:30	Room F 4F 418	Masatoshi Tomi (Keio University)  Yuu Moriya (Takeda Pharmaceutical)	BO-01	Shinji Nakayama	Construction of PBPK models describing the effect of simeprevir on co-administered drugs and endogenous substances
				BO-02	Ryutaro Tamura	Impaired ATP8B1 function in intestine causes hepatic choline deficiency and steatohepatitis
				BO-03	Yuki Katagiri	Functional involvement of BCRP in limiting drug distribution into brain and cerebrospinal fluid in rats
				BO-04	Kodai Yajima	Determination of single-molecule transport activity of OATP2B1 by using QTAP and electrophysiological approach
				BO-05	Ryuto Tomabechei	Functional identification of SLC46A3 and its implication in the efficacy of trastuzumab emtansine
				BO-06	Shogo Akino	Functional characteristics and role of DIRC2/SLC49A4 as a novel lysosomal pyridoxine exporter
				BO-07	Tassadit Belabbas	Population pharmacokinetic model and dosing optimization of vancomycin in hematologic malignancies with neutropenia and augmented renal clearance
				BO-08	Ryo Nakamura	Analysis of nonlinear pharmacokinetics of linagliptin based on PBPK modeling and the cluster Gauss-Newton method
				BO-09	Koya Fukunaga	Functional characterization of nine CYP2A6 variants identified in a Japanese population using the Expi293 Expression System
				BO-10	Koichi Handa	Prediction of compound plasma concentration time profiles in mice using Random Forests
Oral Presentation 2 Pharmacokinetics	November 9 (Wed.) 9:00~10:00	Room E 4F 413	Seigo Sanoh (Wakayama Medical University)  Miho Nagayasu (Chugai Pharmaceutical)	O-01	Satoshi Mizuno	Impact of Skin Changes on the Transdermal Absorption Process of Fentanyl in Goto-Kakizaki Rats, a Model of Type-2 Diabetes
				O-02	Hiroto Hatakeyama	Delivery of an immune checkpoint inhibitor to i.p. tumors via direct penetration by i.p. route: beyond the EPR effect
				O-03	Hiroshi Suemizu	Development of cytochrome P450 oxidoreductase (POR) conditional knockout TK-NOG humanized liver chimeric mice for studying drug metabolism research in humans
				O-04	Takayoshi Nakaoka	Quantification of placental transport using positron emission tomography with [ <sup>18</sup> F]pitavastatin and [ <sup>11</sup> C]verapamil in pregnant rats
Oral Presentation 3 Transporters 1	November 9 (Wed.) 10:15~11:15	Room E 4F 413	Tomoya Yasujima (Nagoya City University)  Tomoko Watanabe (Mitsubishi Tanabe Pharma)	O-05	Yuji Omata	RNA editing enzyme ADAR1 controls the expression of xenobiotic transporter MRP4 <i>via</i> regulation of "circular RNA-microRNA pathway" in human renal cells
				O-06	Saina Komaru	Association of alteration in intracellular pH with nicotine uptake in several epithelial cell lines
				O-07	Saori Sakakibara	The role of OAT4 in the transcellular transport of angiotensin II receptor blockers (ARBs)
				O-08	Toshiki Kurosawa	Involvement of TM7SF3 and LHFPL6 in proton-coupled organic cation antiport at the blood-brain barrier
Oral Presentation 4 Drug-Drug Interaction Microphysiological Systems	November 9 (Wed.) 13:00~14:15	Room E 4F 413	Kiyomi Ito (Musashino University)  Yoshitane Nozaki (Eisai)	O-09	Ferbian Milas Siswanto	Yeast $\beta$ -glucan possesses a resistance-modifying property by modifying the levels of drug-metabolizing enzymes through the NF- $\kappa$ B and Nrf2 pathways
				O-10	Akiyoshi Tamura	Modulation of Drug-Metabolizing Enzymes by Yeast Beta-Glucan through NF- $\kappa$ B Signaling
				O-11	Sayaka Deguchi	Recapitulation of cholestatic liver injury using a liver-on-a-chip with intrahepatic bile duct
				O-12	Yuriko Higuchi	Cell immobilization via click reaction by introducing a bioorthogonal functional group on the cell membrane
				O-13	Kentaro Okada	Establishment and functional evaluation of human intestinal organoids derived from commercially available human intestinal epithelial cells
Oral Presentation 5 Toxicity	November 9 (Wed.) 13:00~14:30	Room F 4F 418	Kaoru Kobayashi (Meiji Pharmaceutical University)  Yosuke Yamanaka (Astellas Pharma)	O-14	Masashi Kawami	Preventive effect of intratracheal administration of folic acid on methotrexate-induced lung injury
				O-15	Kosuke Saito	Identification and characterization of lysophosphatidylcholine 14:0 as a biomarker for drug-induced lung disease
				O-16	Akito Yokotobi	The regulation of hepatic prostaglandin E <sub>2</sub> amount and its effect on acetaminophen-induced liver injury through improving endothelial damages
				O-17	Junya Nagai	Role of PGE <sub>2</sub> in albumin-induced HIF-1 activation in renal proximal tubular epithelial cells
				O-18	Hiroyuki Ikuta	The Hydrolysis of Acyl Glucuronides in Human and Rat Liver Microsomes
				O-19	Yasuhito Tsukushi	Pharmacokinetic/toxicodynamic modeling to elucidate the roles of dorsal root ganglion neuron in oxaliplatin-induced peripheral neuropathy
Oral Presentation 6 New Modality	November 9 (Wed.) 14:30~15:15	Room E 4F 413	Makiya Nishikawa (Tokyo University of Science)  Yuki Kishino (Daiichi Sankyo)	O-20	Yuchen Sun	Development of LC/MS-based analytical methods for comprehensive identification and quantification of oligonucleotide therapeutics and their metabolites
				O-21	Takanori Akazawa	Impacts of negative food effect, P-gp, and solubility on oral bioavailability of cyclic peptides
				O-22	Akihiro Matsumoto	Development of quantitative digital PCR methodology with a tissue volume-based unit for the biodistribution evaluation of recombinant adeno-associated virus
Oral Presentation 7 Transporters 2	November 10 (Thu.) 13:00~14:00	Room E 4F 413	Shingo Ito (Kumamoto University)  Takao Watanabe (Sumitomo Pharma)	O-23	Hiroki Kataoka	The effect of N-glycosylation on the transport activity of organic anion transporting polypeptide 1A2/2B1
				O-24	Ayaka Miyano	Changes in creatine levels in mouse models of creatine transporter deficiency syndrome
				O-25	Daiki Sako	Improved expression and function of P-gp in human iPS cell-derived brain microvascular endothelial cells
				O-26	Ayane Nakamura	Role of placental OCTN1 in maternal-to-fetal transfer of ergothioneine in mice
Oral Presentation 8 Transporters 3	November 10 (Thu.) 14:15~15:15	Room E 4F 413	Tadahaya Mizuno (The University of Tokyo)  Yosuke Kaneko (Otsuka Pharmaceutical)	O-27	Koki Sugiyama	MCT6/SLC16A5 is a chloride sensitive organic anionic transporter
				O-28	Mai Hirose	Functional characterization of a plasma membrane-targeted mutant of CHT1 stably transfected in MDCKII cells
				O-29	Mai Inagaki	Characteristics of human 3D cerebrovascular network reconstructed on a microfluidics device
				O-30	Siyu Liu	Development of in silico models to predict monkey & human brain penetration using machine learning approach