

## Poster Presentation

Session	Date and Time	Room	Category	Poster Number	Speaker	Subject Title
Poster Presentation1	November 17 (Wed) 9:30~10:30	Room F	Absorption	P01-01	Taiji Miyake	Predicting quantitatively P-glycoprotein mediated drug-drug interactions and intestinal absorption using humanized mice
				P01-02	Satomi Kanki	In vitro-in vivo correlation for assessment of blood-brain barrier permeability in monkey
				P01-03	Shio Maruyama	Pharmacokinetics evaluation of continuous subcutaneous infusion in rats using an implantable micro infusion pump
				P01-04	Keishi Yamasaki	Possible roles of intestinal P-glycoprotein and cytochrome P450 3A on the limited oral absorption of irinotecan
				P01-05	Kozo Tagawa	Development of Dissolution Evaluation System for Drug Absorption (II): Improvement of <i>In Vitro</i> 3D Gastric Emptying Model and Dissolution Evaluation System in Human
				P01-06	Teruki Hamada	Is an intranasal administration useful to drugs for central nervous system?
Poster Presentation2	November 17 (Wed) 9:30~10:30	Room G	Absorption	P02-02	Hiroki Sunakawa	IVIVC assessment for BBB permeability using rat BBB kit
				P02-03	Keita Saitoh	Drug discovery support technology using cerebrospinal fluid collection method in mice and rats
				P02-04	Hidetaka Kamimura	Preliminary evaluation of C <sub>ss</sub> -MRT <sub>po</sub> approach for the simulation of oral plasma concentration-time profiles of model compounds in humans using common marmosets
				P02-05	Miyuki Takemura	Quantitative analysis of the effect of osmolality on beverage-drug interaction by evaluating saccharide absorption
				P02-06	Chisato Nishida	Food-effect studies in new drug development: Considerations on study designs based on an analysis of recent New Drug Applications in Japan
Poster Presentation3	November 17 (Wed) 14:30~15:30	Room F	Drug-Drug Interactions	P03-01	Kenta Mizoi	Effects of P-glycoprotein-mediated drug-endogenous-substrate interactions on blood-brain barrier permeability of testosterone
				P03-02	Motohiro Kato	Prediction of drug-drug interactions caused by gastrointestinal efflux transporter inhibition
				P03-03	Noriaki Sugimoto	Estimation of contribution ratio of elimination clearance for sofipronium in humans after topical application of sofipronium bromide (BBI-4000) gel
				P03-04	Yasuhiro Masubuchi	Time-dependent inhibition of cytochrome P450 enzymes by duloxetine through metabolic intermediate complex formation
				P03-05	Hiroki Morishita	The effect of P-gp mediated pharmacokinetic interactions on pimoziide hERG channel inhibition
				P03-06	Hiroaki Takubo	Quantitative prediction of OATP1B-mediated drug-drug interactions using endogenous biomarker coproporphyrin I

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Poster Presentation4	November 17 (Wed) 14:30~15:30	Room G	Drug-Drug Interactions	P04-01	Yuta Tamemoto	Systematic evaluation of drug interaction risk by time-dependent inhibition using <i>in vitro</i> cocktail method: fluvoxamine and fluconazole are time-dependent inhibitors of CYP2C19
				P04-02	Kengo Watanabe	In vivo CYP3A4 activation by Pexidartinib using chimeric mice with humanized liver (PXB mice)
				P04-03	Toshiyuki Kudo	Analysis of non-linear pharmacokinetic profile of clarithromycin based on a physiologically-based pharmacokinetic modeling
				P04-04	Uichirou Takagi	Evaluation of inhibitory effects of phosphorothioate-linked oligonucleotides on cytochrome P450 using human liver microsomes
				P04-05	Marina Higa	A case of warfarin-amiodarone drug interaction in patients with paroxysmal atrial fibrillation
				P04-06	Satoru Suzuki	Quantitative analysis of the effect of absorption characteristics on CYP3A-mediated intestinal drug-drug interactions using physiologically based pharmacokinetic absorption model
Poster Presentation5	November 17 (Wed) 15:45~16:45	Room F	Transporters	P05-01	Liyanage Manosika Buddhini Perera	The development of an evaluation system for bile excretion drugs
				P05-02	Ryo Okada	Development of human Cholangiocyte organoids monolayer having direction for drug transport
				P05-03	Yusuke Masuo	Identification of food-derived isoflavone sulfates as protentional inhibition markers for intestinal BCRP by untargeted metabolomics
				P05-04	Takahiro Yamashiro	Comparative assessment of the uptakes of pyridoxine and thiamine in the rat small intestine: absence of Slc19a3-dependent function of carrier-mediated pyridoxine uptake
				P05-05	Kaori Morimoto	Cationic modification gives dextran a BCRP inhibitory effect
				P05-06	Kanna Kinoshita	Involvement of P-glycoprotein in drug resistance in follicular lymphoma
Poster Presentation6	November 17 (Wed) 15:45~16:45	Room G	Transporters	P06-01	Yuji Omata	RNA editing enzyme ADAR1 governs the circadian expression of P-glycoprotein in human renal cells by regulating alternative splicing of the <i>ABCB1</i> gene
				P06-02	Nanako Kameda	Mechanism of the inhibitory effect of inhaled corticosteroids on peptide transporter 2 function in human alveolar epithelial cells
				P06-03	Yuta Nakazawa	The role of transcriptional factors, scaffold protein and MRP2 expression in lung cancer cells
				P06-04	Satoru Koyanagi	Diurnal expression of MRP4 in bone marrow cells underlies the dosing-time dependent changes in the oxaliplatin-induced myelotoxicity in mice
				P06-05	Sai Yasukochi	Inhibition of BCRP by febuxostat improves anti-neuropathic pain effect of sulfasalazine
				P06-06	Shingo Ito	Cyclocreatine transport via the creatine transporter SLC6A8 in HEK293 cells, hCMEC/D3 cells, and fibroblasts derived from cerebral creatine deficiency syndrome patients

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Session	Date and Time	Room	Category	Poster Number	Speaker	Subject Title
Poster Presentation7	November 18 (Thu) 9:30~10:30	Room F	Transporters	P07-01	Chitaka Namba	Functional characterization of the carrier-mediated choline transport system in Caco-2 cells
				P07-02	Yuya Nakazono	Usefulness of a high porosity honeycomb film in evaluating drug transcellular transport assay
				P07-03	Shin-Ichi Akanuma	Tight-junctions and drug efflux transporters in conditionally-immortalized rat blood-brain barrier spheroids
				P07-04	Yusuke Shinozaki	Involvement of carrier-mediated transport systems in the retinal distribution of amantadine at the blood-retinal barrier
				P07-05	Hideyuki Motohashi	Role of drug efflux transporters in cytotoxic effect of bendamustine in the RPTEC/TERT1 human renal proximal tubular epithelial cell line
				P07-06	Yoshinobu Nakamura	Phenol red as a novel substrate of prostaglandin transporter SLCO2A1
Poster Presentation8	November 18 (Thu) 9:30~10:30	Room G	Transporters	P08-01	Yukiko Nakada	Evaluation of methylmalonic acid transport via organic anion transporter 1, 3, and 4
				P08-02	Hisakazu Komori	Down-regulation of OATP2B1/SLCO2B1 Expression by MicroRNAs in Apple-derived Nanoparticles
				P08-03	Takuya Kikuchi	OATP2A1 is a novel EGCG transporter in human iPS cell-derived enterocyte-like cells (hiPS-ELCs)
				P08-04	Qiunan Zhu	Constipation-relieving effect of apple due to down-regulation of ASBT
				P08-05	Sakata Takeshi	Comparative hepatic uptake studies using suspension and plated hepatocyte cultures originating from human and preclinical species
				P08-06	Mizuki Uno	In vivo pharmacokinetic studies of dolutegravir as a BCRP substrate
Poster Presentation9	November 18 (Thu) 14:30~15:30	Room F	Drug Delivery System Transporters	P09-01	Daigo Asano	Utilization of SNAC to improve an oral absorption of peptide drugs
				P09-02	Sachi Okabayashi	The measurement of neurotransmitters in a cynomolgus monkey brain by microdialysis method
				P09-03	Ayano Tsumoto	Analysis of tissue distribution and fetal transfer of human aminopeptidase A recombinant protein
				P09-04	Hidemasa Katsumi	Aspartic acid modified dendrimer-based micelle as a highly potent bone resorption surface-targeting nano-carrier for the efficient treatment of bone metastasis
				P09-05	Nozomi Kubota	Analysis of hepatic uptake mechanisms of daprodustat, a HIF-PH inhibitor using OATP1B-expression system
				P09-06	Shotaro Yoshino	Involvement of BCRP/ABCG2 in gastrointestinal absorption and biliary excretion of a multi-kinase inhibitor pazopanib

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Poster Presentation10	November 18 (Thu) 14:30~15:30	Room G	Drug Metabolism Enzymes	P10-01	Keiya Hirotsawa	Identification of an enzyme responsible for activation of sulindac in human tissues and comparison of its contribution with gut bacteria
				P10-02	Yoko Nagaya	Quantitative prediction of in vivo metabolic clearance for major CYP isoforms in humans based on relative activity factor (RAF) method
				P10-03	Tomoyo Honda	Quantification of UGT isoforms using LC-MS/MS
				P10-04	Yasuhiro Uno	Systematic identification and characterization of flavin-containing monooxygenases in cats, dogs, and pigs
				P10-05	Hiroshi Yamazaki	Predicted contributions of flavin-containing monooxygenase 3 to pH-dependently mediated <i>N</i> -oxygenation of drug candidates with advantages in designing medicines
				P10-06	Seiya Ohki	Development of an LC-MS/MS-based quantification method of urinary 6-hydroxymelatonin for CYP1A2 activity phenotyping
Poster Presentation11	November 18 (Thu) 15:45~16:45	Room F	Drug Metabolism Enzymes	P11-01	Hiroyuki Ichida	Identification of a microsomal enzyme catalyzing the reduction of nabumetone in the human liver
				P11-02	Toshiro Niwa	Effect of CYP2D6 polymorphism on inhibition and stimulation of dopamine formation from <i>p</i> -tyramine by psychotropic agents
				P11-03	Yuu Miyauchi	Heterologous expression of UDP-glucuronosyltransferase in COS-1 cells with an episomal vector
				P11-04	Kenta Suzuki	Identification of human CYP isoforms that catalyze formation of a novel major metabolite from 7-ethoxycoumarin
				P11-05	Takumi Sato	Screening system for rat CAR activation by chemical compounds
				P11-06	Chie Makino	Species differences between rats and primates in complex cleavage pathways of DS-8500a characterized by <sup>14</sup> C-ADME studies in humans and monkeys and <i>in vitro</i> studies
Poster Presentation12	November 18 (Thu) 15:45~16:45	Room G	Drug Metabolism Enzymes	P12-01	Chisato Takahashi	Biophysical Approach to Elucidate the Basis of Losartan Binding to Drug Metabolizing Enzyme cytochrome P450 2C9
				P12-02	Kaoru Kobayashi	Metabolic disposition of triazolam and midazolam in CYP3A-humanized mice without endogenous mouse CYP2C enzymes
				P12-03	Genki Minegishi	Pharmacokinetic analysis of tacrolimus in CYP3A-humanized mice carrying human CYP3A5*1 allele.
				P12-04	Masato Takahashi	Effects of steric hindrance, electron density and stereochemistry of ester prodrugs on the metabolic activation by human carboxylesterase
				P12-05	Yuto Izukura	The role of hepatic stellate cells in CYP3A4 expression in the liver
				P12-06	Takaaki Sasaki	Mechanisms for CYP3A4 induction by rosiglitazone in human intestine-derived LS180 cells

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Session	Date and Time	Room	Category	Poster Number	Speaker	Subject Title
Poster Presentation13	November 19 (Fri) 9:30~10:30	Room F	Toxicity Drug Metabolism Enzymes	P13-01	Sho Morioka	Development of human growth hormone-normalized chimeric mice with humanized liver for an evaluation model of drug-induced fatty liver
				P13-02	Hiroshi Arakawa	Evaluation of platinum anticancer drug-induced nephrotoxicity by primary cultured rat kidney tissue slices using oxygen-permeable plates
				P13-03	Shotaro Uehara	Evaluation of drug-induced hepatotoxicity using hepatocytes from chimeric TK-NOG mice with humanized liver
				P13-04	Kenshiro Hirata	Evaluation on the binding ability of Aripiprazole to plasma proteins in chronic renal failure patients.
				P13-05	Naoki Cho	Formation of Reactive Metabolite of Benzbromarone in Chimeric TK-NOG Mice Transplanted with Human Hepatocytes
				P13-06	Michika Murata	Generation of CES1-knockout CYP3A4-expressing Caco-2 cells
Poster Presentation14	November 19 (Fri) 9:30~10:30	Room G	Systems Pharmacology/ Pharmacometrics	P14-01	Toshiyuki Takanoashi	Pharmacokinetics and concentration-effect relationship of recombinant human hepatocyte growth factor (E3112) in mice with humanized liver
				P14-02	Satoshi Koyama	Construction of pharmacokinetic theory based on hybrid automaton
				P14-03	Yuko Uchimoto	Pharmacokinetic and toxicodynamic modeling of paclitaxel-induced peripheral neuropathy in gemcitabine and nab-paclitaxel treatment
				P14-04	Mizuki Shiho	Prediction of muscarinic receptor occupancy and bladder selectivity based on urinary concentrations of antimuscarinic agents to treat overactive bladder
				P14-05	Ken Kurosawa	Transplacental pharmacokinetic model of digoxin by ex vivo human placental perfusion study
				P14-06	Yuito Fujita	Model-Based Meta-Analysis of Pharmacological Therapies for Neuropathic Pain
Poster Presentation15	November 19 (Fri) 12:00~13:00	Room F	Systems Pharmacology/ Pharmacometrics Pharmacogenetics /Biomarkers Regulation	P15-01	Mami Tamura	Validation analysis of usefulness of comprehensive geriatric assessment for predicting inter-individual variability of pharmacokinetics of vancomycin in elderly patients
				P15-02	Ayano Oishi	Construction of physiologically based pharmacokinetic model of capecitabine and its metabolites in colorectal cancer patients with genetic polymorphism in ABC transporter gene
				P15-03	Masahiro Hiratsuka	Functional assessment of 12 rare allelic CYP2C9 variants identified in a population of 4773 Japanese individuals
				P15-04	Keiko Hosohata	Clinical utility of urinary biomarker in hypertensive patients: Perspectives on the prediction of kidney function decline
				P15-05	Tsutomu Sakuma	Effects of phosphorylation of the highly conserved serine/threonine residues in DBD of nuclear receptors
				P15-06	Chieri Fujino	Characterization of variations in expression of drug-metabolizing enzymes and drug transporters in mice with collagen antibody-induced arthritis

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Poster Presentation16	November 19 (Fri) 12:00~13:00	Room G	Micro-Physiological Systems (Organs on a Chip) Others Absorption	P16-01	Maho Okubo	Development of a three-dimensional culture model to evaluate long-term drug exposure and improvement in model quality using a humanoid robot
				P16-02	Tomoki Imaoka	Microphysiological system modeling of Ochratoxin A-associated nephrotoxicity
				P16-03	Masami Fukaya	Long-term culture of human primary hepatocytes in a liver-gut device
				P16-04	Itaru Natsutani	Customization of drug metabolite searching process for development of simple and comprehensive metabolite analysis in drug discovery
				P16-05	Moena Nishi	Establishment of the differentiation method of human induced pluripotent stem cells into brain pericyte-like cells
				P16-06	Shunta Shigemura	Study of intestinal absorption of polyphenols using human iPS cell-derived small intestinal epithelial like cell F-hiSIEC
Poster Presentation17	November 19 (Fri) 13:15~14:15	Room F	Bioimaging/ Bioanalysis AI/Bioinformatics/ Ormics	P17-01	Katsunori Ieki	Quantitative analysis of cytochrome P450 isoforms in cynomolgus monkey liver microsomes by LC-MS/MS
				P17-02	Takeshi Hanada	Development and Application of a Direct qPCR Method for the Quantification of Cell Therapy Products
				P17-03	Hiromi Habara	Development of a Simple and Robust Tryptic Digestion Method for the Determination of Therapeutic Antibodies by LC/MS
				P17-04	Yukari Tanaka	Application of Imaging Mass Spectrometry to Peptide Drug Discovery
				P17-05	Harutoshi Kato	Development of a 3D Pharmacophore Model for P-gp Substrates using <i>in silico</i> Fragment Mapping Method
				P17-06	Reiko Watanabe	Development of <i>in silico</i> prediction models for tissue distribution of drugs: Brain penetration considering transport potential of P-glycoprotein substrate
Poster Presentation18	November 19 (Fri) 13:15~14:15	Room G	Others Absorption	P18-01	Yuki Doi	Evaluation of Prediction Methods for Human Pharmacokinetics of Antisense Oligonucleotide from Animal Data
				P18-02	Yasuhiko Shinoda	Evaluation of physiological function on the double layered co-culture with direct interaction between Caco-2 and human vein endothelial cells with our polyurethane membrane
				P18-03	Chihiro Yamasaki	Development of an <i>in vitro</i> gene knockdown system using solid-phase transfection technology and fresh human hepatocytes derived from chimeric mice (PXB-cells)
				P18-04	Ryota Shizu	Structural Characterization of the Constitutive Transcriptional Activity of PXR for Chemical Screening
				P18-05	Hiroataka Miyamoto	Evaluation for effect of hypothermia on pharmacokinetics of vancomycin
				P18-06	Ning Ding	Utility of Göttingen minipigs for the prediction of human pharmacokinetic profiles after intravenous drug administration