

# Poster Presentation

Presentation time

1P-XXX: 26th September (Tue.) 11:15-12:15

2P-XXX: 27th September (Wed.) 12:30-13:30

3P-XXX: 28th September (Thu.) 11:15-12:15

Room F (1F Main Hall - Ocean)

ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
1P-001	Shikiho Takeuchi	Metabolism of flavonoid compounds by single nucleotide polymorphism mutants of human cytochrome P450 1A2
2P-002A	Shuki Yamazaki	Functional characterization of 31 CYP2B6 rare variants identified in 8,380 Japanese individuals
3P-003	Shimpei Watanabe	In vitro metabolic profiling of new synthetic cannabinoids, ADB-FUBIATA, AFUBIATA, CH-FUBIATA, and CH-PIATA
1P-004	Hisataka Itoh	<i>In vitro</i> inhibitory effects of acidic NSAIDs on human CYP4A11 activity: potent inhibition by sulindac sulfide
2P-005	Shiori Takeji	Functional analysis of single nucleotide polymorphism in human cytochrome P450 2C19 expressed in <i>E. coli</i>
3P-006	Norio Masuda	Long-term survival of differentiated human intestinal organoids with higher CYP activities.
1P-007	REI SATO	Comparison of contribution of alcohol dehydrogenase and P450s to aldehyde formation from abacavir in the human liver
2P-008	Yasuhiro Uno	Identification and characterization of tree shrew CYP2Cs
3P-009	Miki Katoh	Effect of tyrosine kinase inhibitors used for treating renal cell carcinoma on CYP2J2 activity
1P-010A	WAKANA NAGAI	The effect of cryopreservation on the functions in human iPS cell-derived hepatic organoids
2P-011A	Genki Ushirozako	Identification and characterization of tree shrew CYP2Ds
3P-012	Norie Murayama	Cytochrome P450 2C21 and 2C41 Functionally Metabolize Warfarin and Omeprazole in Dogs
1P-013	KEIKO MAEKAWA	Kinetic deuterium isotope effects of deuterium-modified venlafaxine in cytochrome P450 oxidation reactions
2P-014	Yukiko Ueyama-Toba	Analysis of function in originally developed human liver organoids-derived hepatocytes

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
3P-015	Yuma Suzuki	Functional characterization of 20 rare variants of CYP2A6 by assessing coumarin 7-hydroxylation
1P-016	NGOC ANH NGUYEN	Production of a major human metabolite of rabeprazole, a proton pump inhibitor, by bacterial P450 enzymes
2P-017A	Yuichiro Iwai	Development of in vitro and in vivo evaluation systems for vitamin D derivatives with potent anti-proliferative activity
3P-018	Frank Scheffler	The One Stop Metabolite Shop: Employing Multiple Tools To Solve Challenging Metabolite Projects
1P-019A	Yoo-Bin Lee	Functional Outcome of P450 2C8 Polymorphisms *15, *16, *17, and *18 Alleles
2P-020	Chang Seon Ryu	In vitro metabolite identification study on SARS-CoV-2 Plpro inhibitors GRL0617 and HY-17542
3P-021	Yoshihiro Morishima	Hsp70 is required for the Hsp90-mediated insertion of heme into the heme-deficient apo-neuronal NO synthase P450
1P-022A	Kaitlyn Varela	Conversion of Artemisinin to Its Enzymatic Products by Cytochromes P450 3A4 and 2B6
2P-023A	Naoto Nakaya	Functional analysis of CYP3A4 variant (I301T) causing type 3 rickets
3P-024	Chun-Zhi Ai	Prediction of the site forming reactive intermediate of therapeutic agents metabolized by cytochrome P450 3A4
1P-025A	Changmin Kim	Co-expression of Human Cytochrome P450 11A1, Adrenodoxin and Adrenodoxin Reductase
2P-026A	Eunseo Jeong	Characterization of Cytochrome P450 107P2 Enzyme from <i>Streptomyces avermitilis</i>
3P-027	Chun-Zhi Ai	Computational prediction of cytochrome P450-mediated bioactivation
1P-028	Kiyotaka Suzuki	Cytochrome P450 (CYP) 3A4 in metabolism of carbamazepine and erythromycin

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-029	Eiichi Mizohata	X-ray crystallography of sesamin biosynthetic CYP81Q proteins
3P-030	Taro Tamada	Approach to Complementary Use of Neutron and X-ray Crystallography for Cytochrome P450
1P-031	Aya Okuda	Analysis of solution structure of CYP105A1 with small angle X-ray scattering
2P-032A	Svetlana Gorina	Alterations of catalytic mechanisms of atypical cytochromes P450 of the CYP74 clan
3P-033	Yoshino Kojima	X-ray crystal structure analysis of CYP85A3, a key enzyme to produce highly potent brassinosteroids
1P-034A	Yana Toporkova	Hydroperoxide bicyclases – new enzymes of brown algae oxylipin biosynthesis
2P-035	SAYURI MOTOTANI	Synthesis and preliminary biological evaluation of 23,23-difluorovitamin D <sub>3</sub> analogues
3P-036	CHISATO TAKAHASHI	Impact of Substrate Deuteration on Warfarin Metabolism Involving CYP2C9
1P-037A	Megumi Ishigami	Rational Development of New Structural Decoy Molecules Which Respond to Cytochrome P450BM3
2P-038A	Mahiro Nakazawa	Introduction of various metal ions into cytochrome P450 using ferrocyclase co-expression system
3P-039	Yasuhiro Tateishi	Mechanism of oxidative carbon-carbon bond cleavage by cytochrome P450 2B4
1P-040A	Yongwei Zhao	Based Peptide cyclisation by cytochrome P450: A case study of unexpected events in the biaryllytite family
2P-041A	NGOC TAN CAO	Hydroxylation of branched alkanes by cytochrome P450 enzymes
3P-042	Shinya Ariyasu	Catalytic Oxidation of Gaseous Alkanes by Wild-type Cytochrome P450BM3 with Chemically Evolved Decoy Molecules

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
1P-043A	Elena Smirnova	The CYP74 clan cytochromes P450 in the lancelets ( <i>Branchiostoma floridae</i> , <i>B. belcheri</i> , <i>B. lanceolatum</i> )
2P-044A	Alicia Kirk	Understanding the mechanism of CYP199A4 catalyzed aliphatic dehydrogenation: an ONIOM(B3LYP:AMBER) study
3P-045	Vandana Kardam	Computations Reveal a Crucial Role of F121 and F363 Aromatic Dyad in the Catalytic Function of CYP71D of Mint Superfamily
1P-046A	Stephen G. Bell	The rational design of heme enzyme biocatalysts
2P-047A	Tu Minh Ho	Exploration of the Conversion of Chenodeoxycholic Acid to Cholic Acid by Human Cytochrome P450 8B1 through the Synthesis of deuterated substrate isotopologues
3P-048	Jinzen Ikebe	Computational prediction of P450 variants to improve production rates of target products using MSPER
1P-049	Yasuhiro Mie	Electrochemically-driven P450 reactions to produce pharmaceutical hydroxyvitamin D <sub>3</sub>
2P-050A	Cancelled	
3P-051	Makoto Kataoka	Development of a novel safe booster with antedrug characteristics to improve oral bioavailability of CYP3A Substrates
1P-052A	Yuya Yokoyama	Directed evolution of P450BM3 for the expansion of the structural diversity of decoy molecules
2P-053A	Kanta Kuribayashi	Detection of interactions between cytochrome P450 and redox proteins using a <i>Metallosphaera sedula</i> scaffold protein
3P-054	Sachiyo Yoneda	Production of drug metabolites using Actinomycete cytochrome P450
1P-055A	Yichi Zhang	Engineering and encapsulating a thermostable P450 fatty acid $\omega$ -hydroxylase for the sustainable production of biopolymers
2P-056A	Cancelled	

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
3P-057	Zhiqi Cong	Reinforcing Peroxygenase Activity of P450s by Engineering Hydrogen Peroxide Tunnels
1P-058A	Ya Fen Yong	Engineering of Cytochrome P450 for Synthesis of Novel Reveromycin Derivatives
2P-059A	Jeong-Hoon KIM	Production of new terpene derivatives using engineered CYP102A1 enzymes
3P-060	Loïc Bourdon	Characterization of ancestral Cytochrome P450 encapsulated in virus-like particles as nano-scale bioreactors
1P-061A	Jamie Lynch	Evolution of P450BM3 (CYP102A1) for vitamin metabolism
2P-062A	Victoria Barros Metlova	Drug Fragment Diversification via P450-catalysed C-H Activation
3P-063	John C Hackett	Fluorescence quenching in dark CYP19A1 nanodiscs suggests the presence of more than one binding site in human CYP19A1.
1P-064A	Nirupama Sumangala Korada	Exploring the influence of cholesterol on the catalytic activity of steroidogenic human aromatase (P450 19A1)
2P-065A	Neikelyn Burgos-Tirado	Mutagenesis studies targeting a second steroid-binding site in human P450 17A1 (steroid 17-hydroxylase/17,20-lyase)
3P-066	Cancelled	
1P-067A	MENGLU LI	Visualizing cytochrome P450 in living hepatocytes by Raman imaging
2P-068A	Fumiya Ito	Non-Recombinant Whole-Cell Biocatalysts Controlled with Dummy Substrates for Degradation of Soil Contaminants
3P-069	Erisa Harada	Sesamin oxidizing enzyme CYP92B14 regulates lignan accumulation in sesame seeds
1P-070A	MIZUKI NISHIMURA	Application of fungal cytochrome P450 monooxygenases for production of alpha-santalene derivatives.

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-071A	masato homma	The elucidation of the biosynthesis of canonical strigolactones mediated by CYP722C
3P-072	Yoshimi Yamamura	A novel C-12 oxidase, CYP76AH93, is involved in abietane-type diterpene biosynthesis in <i>Isodon japonicus</i>
1P-073A	CHEN CHEN	Identification of cytochrome P450 monooxygenases involved in fungal metabolism of sesquiterpene alcohols
2P-074A	Alix Charles Harlington	Efficient O-demethylation of lignin monoaromatics using the peroxygenase activity of cytochrome P450 enzymes
3P-075	Takuya Yamaguchi	Discovery of CYP94A and CYP77A fatty acid hydroxylases that metabolize aldoxime in floral nitro and nitrile compounds biosynthesis in loquat
1P-076A	Goossens A.	Glycosylated triterpenoids from <i>Saponaria officinalis</i> as endosomal escape enhancers: pathway discovery and perspectives of metabolic engineering
2P-077A	Duck-Hyun Kim	The repertoires and molecular evolution of the cytochrome P450 (CYP) superfamily in metazoans
3P-078	Takatoshi Wakabayashi	Cytochrome P450-catalyzed biosynthesis of strigol, a strigolactone produced by cotton
1P-079A	Peter Giang	CYP108N12: Monoterpene biodegradation to biocatalytic oxidations.
2P-080	Shin-ichi Ozaki	Heme transport and metabolism in <i>Y. pseudotuberculosis</i>
3P-081J	Naoki Takaoka	Metabolism of aldehyde odorants by nasal aldehyde-metabolizing enzymes and their inhibition by drugs
1P-082	Tomoya Hino	Structural and functional analysis of the substrate uptake pathway of alkane hydroxylase AlkB
2P-083	Hae Chan Jeong	Enzymatic production of 3-hydroxyphloretin using tyrosinase derived from <i>Bacillus megaterium</i>
3P-084	Yu-jin Lee	Functional Characterization of Unspecific Peroxygenase from Fungus <i>Daldinia</i> species

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1P-085	Kota Yoshioka	Functional alteration of 2-oxoglutarate-dependent dioxxygenases that are involved in oxidative degradation of tomatine
2P-086	Ryosuke Negoro	Generation of Caco-2 cells with predictable metabolism by CYP3A4, UGT1A1 and CES using genome-editing technology.
3P-087	Daisuke Takani	Synthesis and biological activation of diester-type indomethacin prodrugs considering the substrate specificity of human carboxylesterase isozymes
1P-088	Kazuya Shimomura	Aldo-keto reductase 1A1 functions as a drug-metabolizing oxidase that forms aldehydes from alcohols: a study mainly using 4-hydroxytolbutamide
2P-089J	Yoshiyuki Sakai	Role of hepatic arylacetamide deacetylase in cholesterol/bile acid homeostasis
3P-090	Sango Nakashima	Identification of novel two reactive metabolites formed from trametinib by AADAC and CYP3A4 in the human liver
1P-091	Makiko Shimizu	Evaluation and confirmation for rare but impaired variants of human flavin-containing monooxygenase 3 found in an updated database of a Japanese cohort
2P-092J	SHOTARO UEHARA	Metabolism and renal toxicity of SGX523 in chimeric mice with humanized liver
3P-093J	Shuji Takeuchi	Regulation of human hepatic UGT1A6 expression by A-to-I RNA editing
1P-094	Takumi Ohno	Expression and induction of human UGT isoforms in liver and small intestine of UGT1/2 humanized mice
2P-095A	Madoka Masuzumi	Met116 of UDP-Glucuronosyltransferase 2B7 (UGT2B7) determines substrate specificity toward morphine
3P-096	Yuu Miyauchi	Detection of UDP-glucuronosyltransferase in several oligomeric forms by immunoblotting and prediction of oligomer-forming sites with deletion mutants
1P-097A	Hinako Seto	Identification of UDP-glucuronosyltransferase 2b1 (mUgt2b1) as the main enzyme involved in glucocorticoid glucuronidation in mice: evidence from Ugt2b1-knockout mice
2P-098	Chun-Zhi Ai	Identify UDP-glucuronosyltransferase1A1 substrates or inhibitors from natural products by pharmacophore and machine learning models

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
3P-099	Hiroaki Shimada	The interaction between cytochrome P450 inhibitors and eicosanoid production in rat liver
1P-100A	Juan Valentin-Goyco	Mechanism of 18-hydroxylase activity modulation by 320 residues in human Cytochrome P450 11B1 and 11B2
2P-101A	Kevin D. McCarty	Kinetic processivity of the three-step 14 $\alpha$ -demethylation of lanosterol catalyzed by human cytochrome P450 51A1
3P-102	Yuchen Liu	Metabolism of 8,9-unsaturated sterols by human CYP27A1 and CYP11A1
1P-103A	Jibira Yakubu	Curcumin and metformin nano formulations for inhibition of CYP17A1 activities
2P-104	Dave Arthur Robledo	Transactivation potencies of estrogen receptor alpha (ER $\alpha$ ) by DDTs: Interspecies comparison of the killer whale, Baikal seal, and mouse using in vitro and in silico approaches
3P-105	Chao Zhang	Role of the redox partner and the acid-alcohol pair in the complex regulation of human aromatase activity
1P-106A	Katyayani Sharma	Endocrine Disrupting Chemicals as "structural cues" for inhibition of CYP17A1
2P-107	Saki Gotoh-Saito	Genome-wide profiling of enhancer RNA initiation events identified novel drug-responsive enhancers in human hepatocytes
3P-108	Daisuke Aibara	Transcriptional regulation of the <i>Osbpl3</i> gene by PPAR $\gamma$ in the fatty liver disease
1P-109	Jun Terashima	Expression pattern of drug-metabolizing enzymes in 3D spheroid of lung cancer cells, A549 that have acquired irinotecan resistance
2P-110	Genki Minegishi	Different regulation of cytochrome P450 3a in liver and small intestine by cholesterol and cholic acid feeding in mice
3P-111	Seiya Takemoto	Role of DNA G-quadruplexes in the <i>ABCB1</i> gene to regulate MDR1 expression in cancer cells and control the sensitivity to paclitaxel
1P-112	Takuomi Hosaka	Rosiglitazone synergistically induces CYP3A4 in human intestine-derived LS180 cells through activation of nuclear receptors PPAR $\gamma$ and PXR

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-113A	Albert Braeuning	Proteomics Reveal In Vivo Effects of Phenobarbital in Mice with Humanized Livers
3P-114	Damjana Rozman	Deletion of CYP51A1 and other cholesterol synthesis genes alters gene regulatory networks and affects drug metabolism pathways in human hepatocytes
1P-115	Magdalena, Katarzyna Urbaniak	Toward production of safe food – how to control the bioaccumulation of selected Persistent Organic Pollutants in cucurbits
2P-116A	Qi Zhang	Down-regulation of Cyp2e1, Cyp4a10 and Cyp4a14 alleviates alcoholic liver injury by reducing oxidative stress
3P-117	Tatsuya Sueyoshi	Ligand induced GR heterodimerization with MR and P450 gene regulation
1P-118	Taiji Miyake	Quantitative prediction of CYP3A-mediated drug-drug interactions by correctly estimating fraction metabolized using human liver chimeric mice
2P-119	Hiroki Sunakawa	Evaluation of P-gp-mediated drug-endogenous substrate interactions
3P-120	Liyanage Manosika Buddhini Perera	Clinical analysis and <i>in vitro</i> correlation of BCRP-mediated drug-drug interactions during absorption phase
1P-121	Tokio Morita	Membrane permeation variation by pharmaceutical excipient using PAMPA
2P-122	Mizuho Urabe	Evaluation of HepaRG cells as an <i>in vitro</i> tool for assessment of clinical induction risk of CYP3A4
3P-123	Yasuhiro Masubuchi	Inhibition of CYP2D6 and CYP3A4 associated with metabolic intermediate complex formation by piperine, a black pepper component
1P-124	Rika Ishikawa	Comprehensive evaluation of cyclic cell-penetrating peptides on inhibition potency of P-gp, BCRP, OATP1B1, and OATP1B3 <i>in vitro</i> and its relation to physicochemical properties
2P-125	Teruki Hamada	Predictability of hepatic metabolism-mediated drug-drug interaction (DDI) in clinical with use of PXB mice
3P-126	Shun Hayashi	Identification of enzymes involved in the metabolism of tipepidine and prolongation of the half-life of tipepidine by combination use with an enzyme inhibitor

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1P-127A	Yusuke Kamiya	A Case of Multiple Drug-Drug Interaction for Anticoagulant Effect of Warfarin
2P-128	NATSUMI HASHIMOTO	Significance of choice of substrate drugs and buffer conditions which affect the assessment of in vitro inhibition of metabolism by CYP3A
3P-129	Ryo Tamura	Quantitative analysis of the effect of absorption characteristics on intestinal P-gp-mediated drug-drug interactions
1P-130	Hana Kumemura	A new approach to evaluate in vivo inhibition ratio of CYP3A based on data from adverse event reporting system without using pharmacokinetic information
2P-131	Ikumi Washio	DDI risk assessment for OATP in drug development; time-dependent inhibition assay
3P-132	Toshiyuki Kudo	Estimation of contribution of CYP3A4 and aldehyde oxidase in flunitrazepam metabolism using cryopreserved human hepatocytes
1P-133	Cancelled	
2P-134	KOZO TAGAWA	Development of Dissolution Evaluation System for Drug Absorption (IV): Additional Oral Administration Module of In Vitro 3D Gastric Emptying Model for Orally Disintegrating Tablet
3P-135	Kenta Mizoi	The development of an evaluation system for drug excretion into bile using monolayers of human bile duct epithelial cell-like organoids
1P-136	Kotaro Shirai	Characterization of new human induced pluripotent stem cell-derived intestinal epithelial cells and their application to an integrated small intestine liver device
2P-137	Keishi Yamasaki	Involvement of protein binding inhibition in dexmedetomidine concentration change in ECMO circuits during midazolam use
3P-138J	Hiroyuki Sato	Evaluation of receptor-mediated transcytosis using human iPS cell-derived brain microvascular endothelial-like cells
1P-139	Jundai KOBAYASHI	Cellular uptake and permeability of silica particles with different size in placental cells
2P-140	Yuka Nakamura	Utility of AGP KO mice to assess the contribution of AGP in drug pharmacokinetics

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3P-141	Yugo Yasugi	Effect of ingested water volume on gastric drug absorption and disposition in humans
1P-142	shinichiro horiuchi	Functional evaluation of a co-culture model of organoid-derived intestinal epithelial cells and mesenchymal stromal cells for intestinal drug absorption prediction
2P-143	Mitsuto Watanabe	Characterization of renal clearance among human, monkey, and mouse
3P-144J	Takashi Kitaguchi	Improvement of predictability of human oral absorption of glycoside compounds by modified culture method of human iPS cell-derived small intestinal epithelial cells
1P-145	Ryo Sakamoto	Effect of species differences in expression of placental MATE1 on fetal transfer of organic cations
2P-146	Takumi Tanaka	Assessment of biomarkers for SOX chemotherapy dosing in CKD model rats
3P-147	Kai Tanaka	Development of human intestinal organoid-derived monolayer model for drug absorption study
1P-148	Masakazu Shibata	Prediction of Human Pharmacokinetic Profiles of the Antituberculosis Drug Delamanid from Nonclinical Data: Potential Therapeutic Value against Extrapulmonary Tuberculosis
2P-149	Ning Ding	Utility of marmoset for the prediction of human pharmacokinetic profiles of antisense oligonucleotides after intravenous drug administration
3P-150	Hiroki Takezaki	Optimization of culture conditions to form a tight monolayer of intestinal epithelial cells at the duodenum, jejunum, and ileum in dogs
1P-151	Hiroyuki Kusuhara	Directional transport across a tight monolayer of intestinal epithelial cells at the ileum in dogs.
2P-152	Chien-Chang Shen	PXB-mice with humanized livers provide better predictions of human pharmacokinetics compared to CB17-SCID mice
3P-153	Evita Van de Steeg	OPTIMIZED NORMOTHERMIC MACHINE PERFUSION OF LIVER AND KIDNEY USED TO PREDICT HUMAN PHARMACOKINETICS
1P-154	Evita Van de Steeg	INTESTINAL TISSUE ORGANOIDS TO STUDY DRUG TRANSPORT AND METABOLISM FROM INFANTS TO ADULTS

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2P-155J	Yoshihide Yamanashi	Hepatic NPC1L1 exacerbates NAFLD by suppressing biliary excretion of oxysterols
3P-156	ASAMI Saito	Appropriate <i>in vitro</i> tool for the assessment of MATE-mediated DDI.
1P-157	Gaku Ogiwara	Identification of vincristine uptake transporter by CRISPR/Cas9 system
2P-158	Qiunan Zhu	Molecular identification of specific binding site of dotinurad to uric acid transporter URAT1 responsible for its selective uric acid reuptake inhibition
3P-159	Ryo Sugimoto	Organ protective effect of SGLT2 inhibitors by maintaining normal Na <sup>+</sup> -influx associated with D-glucose transport
1P-160	Kazuki Fujita	Potential of Uricosuric Effect of Dotinurad by <i>Trans</i> -Inhibition of Uric Acid Reabsorptive Transporter URAT1
2P-161A	Rikako Imamura	Functional analysis of the organic anion transporter NPT4 by metabolomics approach
3P-162	Yuya Nakazono	Evaluation of drug-induced cholestasis involving drug metabolism using a novel <i>in vitro</i> cultured hepatocyte system icHep
1P-163	Saki Noguchi	Uptake of methylmalonic acid by proximal tubular transporters
2P-164J	Tomoya Akashi	Mechanism of inhibition and transport of human SGLT2–MAP17 glucose transporter
3P-165	Shin-ichi AKANUMA	Functional change in P-glycoprotein at the inner blood-retinal barrier, formed by retinal capillaries, in diabetic models <i>in vivo</i>
1P-166	Mizuki Seki	Role of MFSD2A in transplacental lysophosphatidylcholine-docosahexaenoic acid transfer in mouse placenta
2P-167	Martha Larasati	Transporter and metabolic enzyme-mediated intra-enteric circulation of SN-38, an active metabolite of irinotecan: a new concept
3P-168	Gakuto Maeyama	Regulation of hepatic BSEP expression by A-to-I RNA editing enzymes

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1P-XXX: 26th September (Tue.) 11:15-12:15

2P-XXX: 27th September (Wed.) 12:30-13:30

3P-XXX: 28th September (Thu.) 11:15-12:15

Room F (1F Main Hall - Ocean)

ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
1P-169	WANGYANG LIU	The expression of scaffold proteins and efflux transporters in HCC827 lung cancer cells after EMT/MET inducement
2P-170	Ryuto Tomabechi	Exploring chemical structures required for the inhibition of SLC46A3 transport function
3P-171	Kentaro Yano	Contribution of therapeutic agent-induced alterations in efflux transporters' expression and function to drug resistance in follicular lymphoma.
1P-172	Sakura Mama	Determination of transporter mRNA levels in the isolated polysomes of human blood-brain barrier endothelial cells
2P-173	Keiichi Yotsumoto	Prediction of human hepatic clearance for highly protein-bound OATP substrates: a case for DS-2330b
3P-174	Mamoru Tanaka	Analysis of the role of drug transporters in cellular accumulation of bendamustine using the RPTEC/TERT1 and HK-2 human renal proximal tubular epithelial cell lines
1P-175	Yoshinobu Nakamura	Do hypotonicity and accessory proteins required for Maxi-Cl channel affect SLCO2A1-mediated prostaglandin E <sub>2</sub> transport activity?
2P-176	Eisuke Nakano	Reuptake mechanisms of human placental trophoblast cells-derived extracellular vesicles in the placental trophoblast cells
3P-177J	Hiroaki Yata	Glucose transporter-mediated transport of newly synthesized creatine analog in human blood-brain barrier endothelial cells
1P-178	Toshiki Shimizu	Differential enhancement effects of non-equilibrium atmospheric pressure plasma irradiation on membrane transport in human-derived cells
2P-179	Kim Nguyet Nguyen	Role of BCRP/ABCG2 in pharmacokinetics and neurotoxicity after intrathecal administration of methotrexate in mice
3P-180J	Haruka Morimoto	Functional identification of ATP13A4 as a plasma membrane polyamine transporter: analysis of the spermidine transport function
1P-181	Kaito Matsui	Analysis of the transport function of SLC19A2/3 for amiloride: utilization as a fluorescent probe substrate
2P-182	Kei Higuchi	Regulation of localization and function of MCT7 by ancillary proteins CD147 and GP70

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3P-183	Misato KUNIEDA	Methotrexate resistance by Slc16a6/MCT7 in cancer cells
1P-184	Mai Hirose	Comparative evaluation of the choline transport functions of novel choline transporters and choline transporter 1
2P-185	Shotaro Yoshino	Investigation of the role of human hepatic BCRP by using adeno-associated virus mediated gene delivery
3P-186	Ruth Shekina Lumumba	Involvement of BCRP and other efflux transporters in pharmacokinetics of pazopanib in mice
1P-187	Naoki Saito	Impact of genetic polymorphisms in SLC46A3 on the transport function and efficacy of trastuzumab emtansine
2P-188	Koki Sugiyama	Substrate specificity of monocarboxylate transporter 6 (MCT6)
3P-189	Yui Ikeda	Regulation of drug-metabolizing enzymes activity by ABCC4 expression in liver
1P-190A	Xiaomei Fan	Association of ABCB1 polymorphism with therapeutic response to valproic acid in pediatric patients with epilepsy
2P-191	Melody Nokhutula Shumba	Effect of Cigarette smoking and LPS on SLCO2A1 expression
3P-192	Johannes A. Sake	Knockout of BCRP in NCI-H441 cells to create a more physiologically-relevant in vitro model of human distal lung epithelial barrier
1P-193	Sunhapas Soodvilai	Ivermectin reduces MDCK cyst growth in autosomal dominant polycystic kidney disease
2P-194	Promsuk Jutabha	The effect of depsidone derivatives on the reduction of tenofovir toxicity in organic anion transporter 1-expressed MDCK cells
3P-195	Rattiporn Boonnop	Interaction of Pinocembrin on Human Renal Organic Anion Transporter 1 and 3
1P-196	Tasuku Yokoyama	Impact of concomitant drugs on cilostazol pharmacokinetics in patients with cerebral infarction

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-197	Toshifumi Kimura	Favorable pharmacological effects of FF-10850, a liposomal topotecan, could be explained by quantitative analysis of unencapsulated drug exposure in target tissues
3P-198	Shugo Yamashita	Evaluation of active-targeting polymeric micelle function by gamma distributed delay compartmental analysis using a tissue-isolated tumor perfusion system
1P-199	Shoko Nomura	Improvement of delivery and anticancer effects of liposomal irinotecan on stroma-rich tumors by co-administration of <i>Salmonella Typhimurium</i> VNP20009
2P-200	RYOTA TSUDA	Investigation of delivery of immune checkpoint inhibitors after i.p. administration to peritoneal metastasis via direct penetration: Effect on differences in type of cancers
3P-201	Hisanao KISHIMOTO	Inhibition of mucin-type glycosyltransferase enhances membrane permeation of lipophilic anticancer drugs
1P-202	Takayuki oguma	Effects of <i>in vivo</i> distribution kinetics and intrapancreatic islet distribution of Lipid nanoparticles by their phospholipid components and particle size
2P-203A	Yuta Watanabe	Treatment of hepatocytes with palmitic acid induces the release of extracellular vesicles with tropism to activated hepatic stellate cells
3P-204	Shoichiro Fukuda	The molecular weight limitation on increased intestinal absorption by ionic liquids
1P-205A	Shinya Hirata	Multi-functionalized liposomes optimized with functional lipids improve the efficiency of intracellular protein delivery
2P-206J	Mariko Kamiya	Development of local expression mRNA-loaded lipid nanoparticles based on a modification of novel peptide lipids
3P-207	Takeshi Hori	Nuclear receptor CAR requires GADD45B to mediate liver tumor promotion by phenobarbital in mice
1P-208	Takeshi Susukida	Glycolysis in CD8 <sup>+</sup> T cells plays a major role in the onset of HLA-mediated idiosyncratic drug toxicity
2P-209J	Hiroshi Arakawa	Utility of high content analysis of drug-induced kidney injury using 3D-cultured kidney epithelial cells
3P-210	Kosuke Nagasaka	Risk Assessment of Reactive Metabolites in Drug Discovery: Comparative Analysis of Cysteine and dGSH Trapping Assays

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
1P-211	Shigeki Aoki	The importance of HLA polymorphism-dependent endoplasmic reticulum stress in abacavir-induced hypersensitivity reactions
2P-212	Junya Nagai	Effects of prostanoid EP receptor agonists on HIF activation in human kidney epithelial cell line HK-2
3P-213	Kazuma Hamada	Proteomic analysis of mitochondria to elucidate the immune-mediated drug-induced liver injury in NAFLD
1P-214	Yasuhito Tsukushi	Preventive effect of omeprazole as drug repositioning strategy on onset of OIPN
2P-215A	Yu Harakawa	Development of a read-across method for evaluating repeated-dose toxicity using molecular descriptors and rat cytochrome P450 inhibition test data
3P-216J	Yoshiki Hashimoto	Development of serotonin release assay with human jejunal spheroid-derived enterochromaffin cells and risk evaluation of emesis induced by ALK/ROS1 tyrosine kinase inhibitors
1P-217A	MING YUAN	Maternal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin induces prolactin in male offspring at the neonatal stage: a possible influence on sexual immaturity
2P-218A	Shunsuke Azuma	Identification of bacterial proteins binding to perfluorooctanoic acid
3P-219	Kazuki Takeda	Environmentally harmful paper recycling? sensitizer compounds in paper recycling effluent, exerts dioxin-like effects on zebrafish ( <i>Danio rerio</i> ) via aryl hydrocarbon receptors
1P-220A	Takumi IWASAKA	Establishment of a new and easy-to-construct liver injury mouse model by drinking-water administration
2P-221A	Qiyue Zhang	CREB is a potential marker associated with drug-induced liver injury: the development of the robust reporter stable HepG2 cell lines
3P-222	Takumi Sato	Establishment of a screening system to evaluate direct and indirect rat CAR activators
1P-223A	Jorge Carlos Pineda Garcia	Characterization of behavioral effects evoked by synthetic cannabinoids cumyl-pegaclone and 5F-cumyl-pegaclone: a dose and time frame study
2P-224	Toshiaki Tsuchitani	Analysis of nonlinear pharmacokinetics of telmisartan using physiologically-based pharmacokinetics model incorporating target-mediated drug disposition (TMDD-PBPK model)

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
3P-225	RIKA NISHIYAMA	Physiologically Based Pharmacokinetic (PBPK) Model in Mice for Predicting Human Dose of the Therapeutic Drug for Trimethylaminuria (TMAU)
1P-226	Ryo Nakamura	Comprehensive analyses of DPP-4-mediated linagliptin nonlinear pharmacokinetics in human and rodents by PBPK modeling combined with a cluster Gauss-Newton method
2P-227	yuto tanaka	Construction of PBPK model describing autoinduction of Cyp1as after oral administration of TSU-68 in rats
3P-228	Toshimichi Nakamura	Top-Down Extended Modeling of the Physiologically-Based Pharmacokinetics (PBPK) of Levonorgestrel in Obesity
1P-229	Mengyang Yu	Population Pharmacokinetics of Ilaprazole in Patients with duodenal ulcer and Healthy Individuals in Chinese
2P-230	Kai Obuchi	Functional Characterization of Seven Dihydropyrimidinase Allelic Variants in Japanese Individuals for the Prediction of 5-Fluorouracil Treatment-Related Toxicity
3P-231	Sayana Matsuda	Pharmacogenomic analysis of risk factors for bleeding events in Japanese patients with atrial fibrillation treated with apixaban
1P-232	AKIRA KUBOTA	<i>In vivo</i> and <i>in silico</i> assessment of estrogenic potency of endocrine disrupting chemicals using zebrafish ( <i>Danio rerio</i> )
2P-233	Reiya Yamashita	Phosphorylation of neurotrophin receptor TrkB in serum extracellular vesicles as potential biomarker of food component ergothioneine-induced cognitive enhancement in humans
3P-234	Amit V Pandey	Genetic variations in cytochrome P450 reductase (POR) as biomarkers for steroid and drug metabolism
1P-235A	Nontaya Nakkam	Genetic polymorphisms of CYP2C9 and HLA genes associated with severe cutaneous adverse reactions induced by phenytoin
2P-236A	Xiaomei Fan	SCN1A polymorphisms and haplotypes are associated with valproic acid treatment outcomes in Chinese children with epilepsy
3P-237	Jong-Min Kim	Effects of CYP3A5 and SLCO1B1 Polymorphisms on the Pharmacokinetics of Atorvastatin and 2-Hydroxy Atorvastatin in Humans
1P-238	Ryuto Isogai	<i>In vitro</i> human immortalized cell-based blood-brain barrier models are useful for evaluation of brain permeability of AAV vectors

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-239J	Seiya Ohki	Human immortalized cell-based blood-brain barrier spheroid models offer an applicability assessment tool in characterizing the brain permeability of cyclic peptides
3P-240	Sayaka Deguchi	Generation of liver-on-a-chip for cholestasis research
1P-241	Fuki Yokoi	Elucidation of inflammatory bowel disease pathophysiology using human iPS cell-derived colonic epithelial cells
2P-242J	Erika Kojima	Usability of human primary cell-based 3D intestine model for predicting human intestinal availability
3P-243	MISA HOSHI	Application of gut microphysiological system to predict intestinal absorption of small molecule drugs
1P-244	Takeo Shimasaki	Development of a Multi-Connectable Micro Physiological Systems Enabling Pharmacokinetic Analysis
2P-245	Evita Van de Steeg	NEXT LEVEL DRUG RESEARCH IN AN EX VIVO TISSUE GUT-ON-A-CHIP MODEL: ADVANCED APPLICATIONS OF THE INTESTINAL EXPLANT BARRIER CHIP
3P-246	Rodi ABDALKADER	The development of a micro physiological system of the human corneal epithelium under dry eye-like conditions
1P-247	Yuchen Sun	Analytical method development and validation for nucleic acid biomarkers as a drug development tool: points to consider
2P-248J	Tenyu Ando	Role of CYP enzymes in the expression of chemical-induced skin sensitization parameters in human HaCaT and THP-1 cells
3P-249	Hiroki Onoda	Univasal Alignment Method and Heme Placement Method for Predicted Structures of Cytochrome P450
1P-250	Yuki Doi	<i>In-Silico</i> Prediction of Plasma Concentration-Time Profiles in Rodents Using Deep Neural Networks and its Application to Drug Discovery
2P-251	Reiko WATANABE	Investigation of methods for constructing prediction models for CYP inhibition using deep learning
3P-252J	Yohei Kosugi	Ensemble Machine Learning Approaches based on Molecular Descriptors and Graph Convolutional Networks for Predicting the Efflux Activities of MDR1 and BCRP Transporters

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
1P-253	Katsuhisa Morita	Investigation of factors contributing to the estimation accuracy of deconvolution toward application to large-scale toxicogenomics databases
2P-254A	Shoma Ito	Comprehensive Clinical Risk Assessment of Drug Candidate Compounds using ADMET-AI Models
3P-255	Takahito KUMAGAWA	<i>In vitro</i> and <i>in silico</i> assessment and predictive modeling of transactivation potencies of dog and cat estrogen receptor alpha by environmental chemicals
1P-256A	Tamana Enami	Development of a model for predicting a chemical-induced CYP inhibitory activity using images data showing chemical structure information
2P-257	Tadahaya Mizuno	Investigation of the learning process of diverse chemical structures by chemical language models for toxicity prediction
3P-258	Masatomo Takahashi	Development of a 96-well plate sample preparation method for the assessment of drug-induced liver injury by multi-omics analysis based on mass spectrometry
1P-259A	kosuke Hata	Development of a semi-automated preprocessing system for single-cell proteome/metabolome analysis and its application to drug hepatotoxicity assessment
2P-260A	Maria Natalia Rojas Velazquez	Exploring Novel Variants of the Cytochrome P450 Oxidoreductase Gene from the Genome Aggregation Database: Integrating Bioinformatics Tools and Functional Assays
3P-261	Hannah Nicole Wilkins	Identifying antiretroviral drug metabolism and transport potential in blood brain barrier-resident cells
1P-262	Damjana Rozman	Unraveling potential biomarkers of metabolism associated liver disease and hepatocellular carcinoma
2P-263	Jae-Seong Lee	The genome of the marine monogonont rotifer <i>Brachionus plicatilis</i> : Genome-wide expression profiles of 28 cytochrome P450 genes in response to chlorpyrifos and 2-ethyl-phenanthrene
3P-264J	Siyu Liu	Establishment of a workflow for spatial pharmacokinetics analysis using three-dimensional microscopic imaging data
1P-265	Tomoko Yokoyama	The development of a high-throughput fully automated 384-well microplate Ligand Binding Assay system
2P-266	Tomoshige Ando	Development of analytical method for drug metabolite identification using "UPLC x IMS" separation and high-resolution mass spectrometry

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
3P-267	Noritaka Hashii	Subunit DAR distribution analysis of ADC in human plasma by affinity purification and intact mass spectrometry
1P-268	Takeshi Tajima	Cellular kinetics and pharmacodynamics of tisagenlecleucel for CAR-T cell immunotherapy in patients with relapsed or refractory follicular lymphoma
2P-269	Yoichi Naritomi	Pharmacokinetics and anti-tumor effects of HLCN061, iPS cell-derived gene-edited NK cells
3P-270	Akihiro Matsumoto	Development of quantitative digital PCR methodology with a tissue weight-based unit for the biodistribution evaluation of recombinant adeno-associated virus
1P-271	Manami Tada	Considerations and approaches for evaluation of protein binding of oligonucleotides
2P-272J	Miki Yokoyama	A quantitative human pharmacokinetics prediction method for Fc-fusion proteins
3P-273	MASAYA SHIMADA	Current status and future perspective of DMPK research for Targeted Protein Degradation
1P-274	Naomi Tamura	Survey and Consideration for Evaluation of Tissue Distribution and Plasma/Serum Protein Binding of Approved Oligonucleotide Therapeutics
2P-275	Yasufumi Fukano	Questionnaire survey results on nonclinical pharmacokinetic evaluation of oligonucleotide therapeutics in pharmaceutical companies
3P-276	Natsuki Makiguchi	Effect of protein binding on the cellular uptake and antisense activity of cholesterol-conjugated DNA/RNA heteroduplex oligonucleotide
1P-277	Yusuke Masuo	Optimization of linker sequence of aminopeptidase A-Fc fusion proteins for improvement of enzymatic activity and stability in blood
2P-278A	MADHU BIYANI	In vivo evaluation of a novel circular bivalent DNA aptamer for CYP24A1 inhibition to enhance vitamin D3 functionality in cancer
3P-279	Hidetaka Kamimura	Simulation of human serum concentration profiles of canakinumab and M6903 using pharmacokinetic data from common marmosets ( <i>Callithrix jacchus</i> ) and Microsoft Excel programs
1P-280	Ai Yamaguchi	Establishment of a cell culture platform for human liver organoids for evaluating physiological hepatocyte function

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-281	Satoshi Yoshikawa	Decrease of tedizolid concentration during continuous hemodiafiltration is negligible
3P-282	Shijie Wen	CD38 mediates the distinct roles of soluble uric acid and MSU crystals in gouty inflammation
1P-283	Jumpei Yokota	Highly functional human intestinal organoids in culture using 3D nanofiber (HYDROX) based on amphiphilic copolymers
2P-284	Toru IWAKI	Effect of Sucrose esters of fatty acid on the solubility of curcumin and hydroxypropyl cellulose solid dispersion
3P-285	YANRAN TONG	Culturing human liver organoids using 3D nanofibers derived from chemically synthesized polymers and its application to drug-induced liver toxicity test
1P-286	Tatsuya Inui	Development of highly functional intestinal organoids of human iPS cell-derived enterocyte-like cells and their application to drug discovery research
2P-287J	Miyu Nakayama	Microenvironmental pharmacokinetic/pharmacodynamic analysis of antisense oligonucleotides: in situ hybridization with super-resolution microscopy and direct nuclear isolation
3P-288	Mariko Hirano	Prediction of blood IgG levels during therapeutic plasma exchange using the minimal PBPK model
1P-289	Masashi Takano	Synthesis of 2-[2-(tetrazol-2-yl)ethyl]-1 $\alpha$ ,25-dihydroxy-19-norvitamin D <sub>3</sub> and its metabolism
2P-290	Kentaro Okada	Development of a pharmacokinetic evaluation system using human intestinal organoid monolayers focusing on anatomical region difference.
1P-292	Junjia Luo	Anticancer effects of Ginger Exosome-like Nanovesicles on human colorectal cancer
2P-293	Shouta M.M. Nakayama	Evaluation of anticoagulant rodenticides (ARs) sensitivity of warfarin and diphacinone in sea turtles
3P-294	Tai-Long PAN	Hepatoprotective effect of Scutellaria baicalensis against hepatic fibrosis via modulating cytochrome p450 pathway
1P-295	Simone Brixius-Anderko	Deciphering the role of fatty acid metabolizing cytochrome P450 4F11 in lung cancer and its potential as drug target

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ポスター番号 Poster number	筆頭著者 First name author	演題名 Presentation title
2P-296A	Jiraporn Kuesap	Preliminary study on antimalarial screening of <i>Morinda citrifolia</i> L. crude ethanolic extracts
3P-297	Jeerawat Pimta	Alternariol alleviates Transforming Growth Factor $\beta$ 1-Induced Epithelial to Mesenchymal Transition in Human Renal Proximal Tubular Cells
1P-298A	Nutnicha Suphakhonchuwong	Association of heme oxygenase-1 (HO-1) polymorphism and malaria parasite density in malaria endemic areas of Thailand
2P-299	Kamila Stokowa-Soltys	Nanodiscs as a useful tool to unveil the secrets of cytochrome c reductase.
3P-300	Nipitpon Srimai	Altenusin reduces MDCK-derived cyst progression via CFTR-mediated chloride secretion by activating farnesoid x receptor

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