	THURSDAY, JUNE 13				
10:00 AM - 11:30 AM					
Poster Board Number	Abstract ID	Presenter	Title		
			TRACK 4: MPS in toxicology and drug development		
277	45	lv	SESSION: 4.1 MPS for cell and gene therapy development		
277	15	Yung-Te Hou	Effects of tannic acid on liver function in a small hepatocyte–based detachable microfluidic platform		
278	121	Thierry Poumeyrol	Human Brain Organoid-on-Chip platform to improve organoid reproducibility and scalability for pharmaceutical studies		
279	162	Passley Hargrove-Grimes	Integrating microphysiological systems and extracellular vesicle-based technologies to advance regenerative medicine		
280	253	Hajime Miyashita	Medium Condition Maintainable Microphysiological System (MCM-MPS) for Continuous Drug Concentration Simulation in Pharmacological Studies		
281		Scott Heyward	Optimization of siRNA Delivery in a Long-Term Hepatic Micropatterned Co-Culture (HEPATOPAC)		
282	i	Marisa Meloni	VitroScreen ORA® cartilage system: homeostatic and inflammatory responses		
283		Yeju Jeong	The neuroprotective effect of Neural stem cells-derived exosomal miRNA in Parkinson's disease		
			Efficacy of human umbilical cord blood-mesenchymal stem cells on LPS-induced acute lung injury model using a commercial		
284	631	Bokyong Kim	lung-on-a-chip		
205	10		ON: 4.3 MPS for drug discovery, from target identification to candidate selection  Human placental barrier MPS generated with human placental stem cells		
285	19	Takeshi Hori	Human placental barrier MPS generated with human placental stem cells.  Recapitulating Human-Relevant Pharmatoxicologic Mechanisms of Troglitazone and Rosiglitazone in a Single Experiment using		
286	30	Emmanuel Guedj	Bulk RNA Sequencing of Human 3D Liver Microtissues		
287	1	Daiju Yamazaki	Examination of medium for co-culturing human hepatocytes and engineered heart tissue on MPS		
288	1	Aaron Schatz	Optimizing drug testing using a patient-derived colorectal cancer-on-a-chip model		
289	<u> </u>	Clara Ramón-Lozano	Exploration of hepatotoxic mechanisms in human-like liver microtissues		
			Identification of a potential therapeutic compound for Rett syndrome using a highly homogenous human iPSC-derived cortical		
290	65	Nicholas Coungeris	organoid screening platform		
291	74	Kotaro Aoi	Basic study for the development of in vitro tests for the development of therapeutic agents for non-alcoholic steatohepatitis		
292	98	Ananth Kumar Kammala	Development of a 3D-printed device for electrophysiological measurement of uterine muscle contractions		
293	101	Julien Roth	Developing and Qualifying Human in Vitro Models of Neurotoxicity		
294	105	Yoshiyuki Arata	Evaluating On-Target/Off-Tumor Toxicity of T-cell Engagers Using Co-cultured Organoids and Immune Cells		
295	106	Chia-Hsien Hsu	A microfluidic platform for high-throughput generation of vascularized tumor models		
296	126	Evita van de Steeg	Advanced applications of the Intestinal Explant Barrier Chip (IEBC): Ex vivo gut-on-a-chip research for preclinical pharmacokinetic drug development and host-microbe interactions		
297	128	Katja Graf	A human in vitro two-organ on chip approach (lung-liver) for toxicological investigations: A case study using Paraquat		
298		Paul Vulto	Patient derived HCC on-Chip models recapitulate Sorafenib and Lenvatinib induced vascular responses		
299		Marize Valadares	Potential use of dental stromal tissues for developing neurospheres used in MPS for drug discovery		
300		Kevin Pollard	Human Microphysiological Model of Afferent Nociceptive Signaling		
201					
301	156	Oksana Sirenko	Transforming complexities of 3D biology into translatable science: Automation of 3D organoid culture and organoid analysis.		
302	161	Timothy Leach	Airway Organ Tissue Equivalent Platform for Modeling Chlorine Gas Toxicology and Medical Countermeasure Efficacy		
303	165	Terry Riss	Choosing and validating assay systems to interrogate 3D cell culture models		
304	195	Salvi Kambarova	AC/DC Stimulation of hiPSC Neuron Co-Cultures Using an Amped-Up 3D Printed Platform		
305	205	Kazuhiro Tetsuka	Modeling gastrointestinal inflammation in qualified human gut organoids from induced pluripotent stem cells		
306	216	Freya Woods	Deciphering toxicological dynamics in the bone marrow microphysiological system (BM-MPS) through inference of differentiation trajectories		
307	i	Shweta Bendre			
308		Lea Lara de Maddalena	Liver-on-Chip Model: Advancing toxicology studies for enhanced liver toxicity investigations  AXILD model: Efficacy testing for new clinical drug candidates to treat pulmonary fibrosis		
	223	Lea Lara de Maddaleria	Predicting Peripheral Neurotoxicity on Soma or Axon through Morphological Deep Learning and Electrical Measurements		
309	227	Xiaobo Han	Using an In Vitro Microphysiological System  A Sensitive Podocyte-Specific Nephrotoxicity Assay for Drug Development Applications in a Primary Model of the Glomerular		
310	232	Colin Brown	Filtration Barrier		
311	266	Michelle Ballabio	Unveiling Drug Responses in Liver Spheroids: Multiplexing 3D Cell-Based Assays and Imaging in a Microwell Platform		
312		Maria Clapés Cabrer	Advanced 3D Cell Models for Next Generation Therapeutics: Standardized Organoid Co-Cultures and Assays in Microwell Plates		
			Bromelain as a Potential Adjuvant Therapy for Appendiceal Cancer: Cytotoxic and Mucolytic Effects in Patient-Derived Tumor		
313	290	Nadeem Wajih	Organoids  A Model of Human Neuroinflammation utilizing Induced Pluripotent Stem Cell-Derived Neural Organoids Incorporating		
314	302	Bill Murphy	Microglia		
315	303	Martha Iveth Garcia	Evaluation of drug-induced QT prolongation using cardiac organ-on-a-chip		

Poster Board	Abstract					
Number		Presenter	Title			
			4.3 MPS for drug discovery, from target identification to candidate selection			
316	310	Anicc Harriot	Microphysiological model of Duchenne muscular dystrophy for validating microtubules as a therapeutic target			
317	317	Fong Cheng Pan	Generation of mature and functional hepato-biliary organoids from pluripotent stem cells			
318	328	Gwen Fewell	Blood-Brain-Barrier-on-Chip models for more predictive in vitro modeling of Receptor Mediated Transcytosis			
319	331	Ashley Helser	Microphysiological model of the osteochondral unit for studying OA inflammation			
			RepliGut 2D Crypt Platform Enables Long-term Drug Treatment and Washout Studies on Proliferative and Differentiated			
320	336	Elizabeth Boazak	Human Transverse Colon			
321	341	Kim Haupt	Bioluminescent Tools for Functional Characterization of Liver Models			
322		Aakash Patel	Development of a human multi-organ microphsyiological comorbidities model to investigate geriatric diseases			
323		Anish Mahadeo	Modeling renal clearance of ochratoxin-A in a kidney microphysiological system			
324		Paul Vulto	Modelling Chemotherapy-InducedPeripheral Neuropathy on-a-chip			
325		Rui Sun	Comparative transcriptomic analysis and potential applications of a proximal tubule kidney-chip model			
326		Yuzuru Ito	Microphysiological Systems to Facilitate Assessment of Drug Absorption Kinetics in Gut			
327	-	Charlie Childs	Physiologically Relevant Human Intestinal Organoids for 3D Drug Screening			
328	474	Aiping Bai	Establishing a hepatocyte on-Chip 3D culture system to predict drug toxicity			
			Optimization of in vitro hepatocytes and macrophage culture system for screening of immune-mediated drug-induced liver			
329		Sangho Lee	injury			
330		Massimiliano Berardi	Large scale, multiparametric physical in situ characterization of cancerspheroids by nanoindentation			
331	501	Gauri Kulkarni	Comparing Different Culture Formats of Primary Human Hepatocytes in A Scalable Liver MPS Platform			
332	506	Subhra Nag	Automated Transepithelial Electrical Resistance (TEER) Measurements Allow for Rapid Screening of the Gastrointestinal Toxicity Profile of Therapeutics			
333	524	M Miedel	Effects of Rheumatoid Arthritis and Cancer Biologics on Liver Toxicity in a Human Biomimetic Liver Microphysiology Model			
			Human vascularized organ-on-chip system recapitulates off-target toxicity of antibody-drug conjugate gemtuzumab			
334	533	Queeny Dasgupta	ozogamicin			
335	545	Christine Fisher	Using the microphysiological system PREDICT96-ALI to gain deep insights into human tissue responses to physiological or xenobiotic stresses			
			Altering type III collagen in the myofibroblast microenvironment for studying peritendinous scarring and fibrosis in a human			
336	576	Victor Zhang	Tendon-on-a-Chip (hToC)			
337	580	Ludovico Buti	Evaluation of 3D human intestinal organoids as a platform for EV-A71 antiviral drug discovery			
			The prolonged 3D cell culture mimics the gene expression profile and proteomics of pancreatic tumorsin vivo, and provides			
338	583	Marcin Krzykawski	the reliable tool for an evaluation of anti-cancer drug testing			
339		Agnes Badu-Mensah	Towards Developing a Human Physiology-Relevant Intestinal Model for Mechanistic Assessment of Oral Bioavailability			
340		Dennis McDuffie	Mitigating hepatic insulin resistance on a commercially-available MPS			
341		Cécile Thion	Innovative workflow for drug response studies on single 3D models combining spheroONETM and Incucyte®.			
342		Charles Havnar	Organoid Tissue Microarrays: An Improved FFPE Processing Approach for In Vitro Model Readouts			
343	656	Aisha Amari	Facilitating combination therapy studies on-a- chip with patient-derived 3D tumour models			
		- 11 - 1 -	Fitty.jl: A fast and modern nonlinear least squares regression package in Julia for data fitting to biological models, with			
344	657	Raibatak Das	Bayesian bootstrap to estimate parameter posterior distributions and credible intervals			
345	658	Evan F Cromwell	High throughput drug response profiling of primary colorectal tumor models using a novel automation workflow and Al- assisted image analysis			
346	660	Anne Yau	Development of Injectable Janus base Nanomatrix (JBNm) for Cartilage Tissue Chip in maintaining Long-term homeostasis			

	THURSDAY, JUNE 13				
4:30 PM - 6:00 PM					
Poster Board Number	Abstract ID	Presenter	Title		
TRACK 4: MPS in toxicology and drug development					
			SESSION: 4.4 MPS for drug safety testing  3D-printed humanized feto-maternal interface tests exosomal delivery of anti-inflammatory Interleukin-10 (IL-10) to reduce		
347	609	Leah Saylor	infection-associated inflammation		
			Effects of 6PPD-Quinone, the Transformation Product of a Ubiquitous Vehicle Tire Rubber Additive, in Primary Human Liver		
348		Qiang Shi	Spheroids		
349 350		Carolina Lucchesi May Freag	Advanced 2D and 3D Cardiomyocyte-based Models for Use in Drug Discovery  Employing a gut-on-a-chip model for safety evaluation of T cell-based therapies		
330	042	iviay i reag	Employing a gut-on-a-cinp model for safety evaluation of 1 cen-based therapies		
351	649	Madhu Nag	On the relevance of human liver microtissues for the detection of hepatoxic drugs early in the drug development process		
352	659	Seyoum Ayehunie	A novel vascularized metastatic colorectal cancer tissue model for drug testing		
353	663	Anjli Venkateswaran	Microphysiological System for Predictive Genotoxicity and Mutagenicity of Drugs		
354	114	Aruni Premaratne	ON: 4.5 In vitro clinical trials and precision medicine: real, digital and MPS twins  A liver organ-chip model to evaluate hepatotoxicity of drugs		
334	114	Arum Premarame	High-throughput single organoid swelling assay for personalized evaluation of CFTR modulators in patient-derived rectal		
355	136	Camilla Ceroni	organoids		
			New Approach Method (NAM) to Determine the Pharmacological Parameters of Exosomal IL-10 using Fetomaternal Interface		
356		Ramkumar Menon	Multiorgan MPS  Madelling the Council of Discourse Attended tide Chief for Department of the Council of the Cou		
357	155	Ana Mesic	Modelling the Space of Disse on a Microfluidic Chip for Drugs Hepatotoxicity Screening  PEAR-TNBC: A multi-centre observational clinical trial to predict patient treatment response by assessing drug efficacy on 3D		
358	182	El Li Tham	immune-microtumour cultures derived from core needle biopsies of triple negative breast cancer patients undergoing neoadjuvant therapy.		
359	244	Mariana Costa	Modeling the next-generation of fusion-negative rhabdomyosarcoma 3D-organoids to predict effective drug combinations: a proof-of-concept on cell death inducers		
360	248	Katharina Schimek	A predictive multi-organ-chip platform for cancer precision medicine using automated high-content substance testing		
361	262	Hendrik Erfurth	How Synthetic data, automation and continuous data acquisition enable progress towards a digital twin in preclinical trials		
362	437	Yuki Kobayashi	Development of a simultaneous evaluation system for anticancer drug sensitivity and side effects using microphysiological systems and 3D organoid culture method		
363	445	Honoka Hashizume	Establishment of an anti-cancer drug sensitivity assessment system using microphysiological systems and feline breast cancer organoids		
			SESSION: 4.6 MPS to define physiologically-relevant doses		
			Human-Relevant Aerosol Generation and Exposure In Vitro – Respiratory Toxicity and Systemic Effects tested by the		
364 365		Kasper Renggli	HUMIMIC-InHALES Platform		
303	127	Chrisna Gouws	Small cell lung cancer mini-tumor models as a tool for drug development and screening		
366	264	Kenta Shinha	Liver microphysiological system based on kinetic-pump integrated microfluidic plate (KIM-Plate) for hepatotoxicity test		
367	275	Janny Pineiro-Llanes	Intestinal organotypic model to study the impact of trisomy 21 on drug-metabolizing enzymes		
368		Alicia Henn	Safety without a net: Culturing cells for MPS in controlled conditions without antibiotics for better prediction		
369	284	Evita Mulder	From intestinal organoids-on-chip to multi-organ-on-chip: validation of drug absorption and metabolism  Evaluating the Hepatotoxicity of Cannabidiol, Cannabinol, Cannabichromene and Cannabigerol Using a Human Quad-Culture		
370	313	Ben Swenor	Liver-Chip		
			Development of iPSC-derived Microphysiological Systems Platforms for Drug Discovery, Neurotoxicity Assessment, and Drug		
371	+	Nicolas Butelet	Mechanism of Action		
372 373		Saskia Schmidt  Erin Gallagher	Development of a "plug & play" microphysiological system to mimic liver fibrosis in vitro  Metabolic and Proteomic Profiling of Organophosphate Chemical Warfare Agent exposure on CNBio Human Liver-on-a-Chip without DMSO		
374		Ke Hu	Hepatotoxicity evaluation in repeated doses using on-chip perfusion MPS (KIM plate) with membrane-based direct		
375		Mridu Malik	oxygenation  Toxicity and efficacy testing of a novel stress reliever in a multi-organ microphysiological system		
376		Mary McElroy	Aerosol Exposure at the Air-Liquid Interface of Human Lung Organotypic Cultures using VITROCELL™ Continuous Flow Inhalation System		
377	520	Mridu Malik	Differential Metabolism in Microphysiological Systems for Evaluation of Efficacy and Off-target Toxicity for the NK-1 Antagonist Tradipitant		
311	369		7 Food, cosmetics and consumer products' industry experience in MPS implementation		
378	142	Julia Kühnlenz	Evaluation of a 3D blood-brain barrier transport assay for an exposure-related neurotoxicity assessment		
379	189	Kazunori Shimizu	Functional evaluation of food ingredients using human skeletal muscle MPS		
380	224	Katharina Nitsche	A liver- on- chip to evaluate bile acid secretion for the use in a Next- Generation Risk Assessment		
381	632	Xiaoqing Li	Evaluation of in vitro human placental barrier models for assessing drug toxicity on placenta immunity (maternal IgG transfer)		

Poster			
Board	Abstract		
Number	ID	Presenter	Title
			SESSION: 4.8 MPS to model neurodegeneration
			Completing The Circuit: Building a Same Donor Human iPSC-Based Neuromuscular Junction Model from Schwann Cells, Motor
382	602	Vincent Truong	Neurons, and Skeletal Muscle
			Evaluating the neuromuscular pathology in Alzheimer's disease from familial mutations by utilizing a human iPSC-derived in
383	654	Akhmetzada Kargazhanov	vitro functional NMJ model
204		Markleine Minden	
384	_	Mathieu Vinken Alastair Stewart	Evaluation of functional candidate biomarkers of non-genotoxic hepatocarcinogenicity in human liver spheroid co-cultures  Influence of tumour microenvironment on the activity of breast cancer therapeutic agents
363	9	Alastair Stewart	Imprinted large-area ion-permeable Nafion patterns integrated with an electric cell-substrate impedance sensing system for
386	20	Jong Seob Choi	high-throughput in vitro cancer cell apoptosis study
300	20	30116 3000 01101	Standalone cell culture microfluidic device (SCCMD) for proximal tubule microphysiological system for improving usability and
387	203	Hiroshi Kimura	throughput
388	277	Sohyun Park	A lung microphysiological system platform for methylisothiazolinone-caused inhalation toxicologic model
			An automated and multiplexed liver fibrosis screening assay on a microfluidic liver model that replicates the cellular
389	280	Will Allen	composition and organization of the hepatic lobule
390	329	Kristina Bartmann	Human-based New Approach Methodologies for Developmental and Adult Neurotoxicity Testing in vitro
391	354	Tingjie Zhan	An ex vivo female reproductive system simulates the ovarian control of endometrial decidualization
392		Moo-Yeal Lee	Dynamic culture of cerebral organoids using a pillar/perfusion plate for the assessment of developmental neurotoxicity
393		Hiroaki Kii	Towards A Standard :Al and Automation in Live-imaging Applications for Microphysiological Systems.
394	534	Kevin Healy	A Novel High Throughput Cardiac Microtissue Model for Drug Screening and Compound Discovery
395	552	Nayere Taebnia	3D Printed Microperfused and Mesoscale Human Liver Model with Physiological Oxygen Gradient and Hepatic Zonation
333	333	ivayere raebilla	35 Finited who open used and wesoscale numan liver woder with Friyslological Oxygen Gradient and nepatic zonation
396	556	Jinchul Ahn	Microchip-based assay to assess vascular and neuronal regeneration triggered by photo-crosslinkable peptides
			30 //
397	569	Seung-cheol Shin	Manufacturing quantifiable endometrium organoids by co-culturing fibroblast in high-throughput analysis-optimized platform
398		Breanne Kincaid	Heavy metal mixture elicits less than additive neuronal impairment in human cortical microphysiological system
399	588	Kai Huang	A transformer-based multimodal molecular foundation model for organoid drug efficacy evaluation
400			Comparison of metabolic intrinsic clearances in complex in vitro hepatocyte models: Are single donors adequate to address
400	610	David Kukla	interindividual variability in response?
401	647	Sierra Boyd	A New Approach Methodology (NAM) using 3D human iPSC-derived neural organoids to screen for developmental neurotoxicity hazard
401	047	экта воуч	Treat Octobicity Trazata