JUNE 29th 2023

Poster board number	Abstract ID	Presentation time	Presenter Name	Title
1	488	10:00-11:30 am	Elizabeth M. Boazak	Characterization of reproducibility and biological variability in a stem-cell derived human intestinal epithelium model for applications in inflammation.
2	490	4:30 - 6:00 pm	Ugarit Daher	Lung-organoid-infection models for preclinical testing of antiviral T-cells
3	491	10:00-11:30 am	Vincent Haguet	Bioproduction of organoids and tumoroids in microbeads of human and animal extracellular matrices
4	493	4:30 - 6:00 pm	João Serra	Implementation of customized 2D-to-3D microelectrode array designs: optimization of passivation, electrode shape and methods for performance assessment
5	494	10:00-11:30 am	Cecilia Sanchez	Three Human-Derived Hydrogels developed to support stem cell derived Micro-physiological systems
6	496	4:30 - 6:00 pm	Mar Cóndor	High-definition microelectrode arrays with scalable, integrated microfluidics in multi-well format for drug screening in a heart-on-a-chip application
7	498	10:00-11:30 am	Solène Moreau	Compartmentalized culture of a dorsal root ganglia on a soft thermoplastic elastomer chip: a proof of concept of an alternative to PDMS material for neurofluidics
8	499	4:30 - 6:00 pm	Erin Gallagher	Metabolic and Proteomic Profiling of Organophosphate Chemical Warfare Agent Exposure on CNBio Human Liver-on-a-Chip
9	500	10:00-11:30 am	Shuo Xiao	An ex vivo mini-ovary provides a platform for studying ovarian biology, disease, toxicology
10	501	4:30 - 6:00 pm	Zhongwang Li	Automated Tool for Renal Biopsy Diagnosis
11	503	10:00-11:30 am	Elena Müller	A surface-tension self-pumping microfluidic chip for suspension cell culture
12	504	4:30 - 6:00 pm	Chidubem Onyeagoro	Comparative analysis of vascular transcriptomics in 2D, transwells, and organ-on-a-chip models
13	505	10:00-11:30 am	Kasper Renggli	Cocultivation of liver spheroids and human proximal tubule renal epithelium cells in a perfusable system
14	506	4:30 - 6:00 pm	Meng-Chun Hsu	A Modular Barrier Tissue Platform with On-Demand Fluid Flow and TEER Measurement Capabilities
15	507	10:00-11:30 am	Stephan Ihle	Topologically constrained in-vitro networks express plasticity effects when stimulated electrically
16	508	4:30 - 6:00 pm	Gwen Fewell	Increasing predictability of antibody-triggered receptor mediated transcytosis and neurotoxicity of CAR-T based therapy with a novel Blood Brain Barrier-on-Chip Model
17	509	10:00-11:30 am	morgane couchet	A hybrid silicon and polymer chip for 3D vascularized human beta-pancreatic model development
18	510	4:30 - 6:00 pm	Cátia F. Monteiro	A tumor-on-a-chip incorporating human-based hydrogels for easy assessment of tumor invasion and metastasis
19	511	10:00-11:30 am	Alessandra Venz	High spatiotemporal resolution impedance mapping of Caco-2 epithelial barriers on CMOS-MEA chips
20	512	4:30 - 6:00 pm	Wuyang Gao	Lung on a chip with soft ECM tubular structures
21	513	10:00-11:30 am	Elizabeth Coln	Design and Fabrication of a Piezoresistive Microcantilever Strain Sensor for Measurement of Contractile Muscle Force Generation
22	515	4:30 - 6:00 pm	Alex Rittenhouse	Addressing Genetic Backgrounds and Shared Phenotypes in Autism Spectrum Disorder
23	516	10:00-11:30 am	Kaihua Chen	Introduction of circulating factors to the μSiM-BBB for in vitro studies of sepsis-associated brain injury
24	517	4:30 - 6:00 pm	Seonghyuk Park	Integrated microfluidic platform for tumor spheroid-induced 3D angiogenesis model
25	519	10:00-11:30 am	Michael Rupar	Implementation of a Human Cell-Based Malaria-on-a-Chip Phenotypic Disease Model for Drug Efficacy Evaluation
26	520	4:30 - 6:00 pm	Haley Powell	Functional neuronal platform to investigate glial-neuron contributions towards AD in a hiPSC derived triculture system
27	521	10:00-11:30 am	Margaret Magdesian	Human Neuron-on-a-chip platform to automate the screening of compounds targeting Alzheimer's Disease
28	522	4:30 - 6:00 pm	Justin Zuniga	Industry Standards to Guide Mass Spectrometry Spatial Techniques for PKPD modeling for Organ-on-a-Chip Research
29	524	10:00-11:30 am	Jennifer Walker	Cross-Species Biomarker Identification for Drug Induced Vascular Injury Using a High-Throughput Organ-on-Chip Platform
30	525	4:30 - 6:00 pm	Stephanie Lang	Investigation of the Efficacy and Off-Target Toxicity of both Acute and Chronic Opioid Overdose and Naloxone Recovery in Multiorgan Human-on-a-Chip Systems
31	526	10:00-11:30 am	Hannah Hanson	Application of Flow Cytometry for Plasmodium falciparum Quantification for a Malaria-on-a-chip Model
32	527	4:30 - 6:00 pm	Christopher Hughes	Flow-induced ACE2 expression allows for SARS-CoV-2 infection of endothelial cells in a vascularized microphysiological system
33	529	10:00-11:30 am	Ryuji Yokokawa	An MPS model to study the effect of infinitesimally small shear stress on the morphology and performance of a hybrid proximal tubule microtissue
34	531	4:30 - 6:00 pm	Leah Susanne Mönkemöller	Building blocks for cognition-in-a-dish: Brain MPS, electrophysiology and expression of molecular machinery of learning and memory
35	532	10:00-11:30 am	Sean Dunn	ASTEROIDS: Coupling Organoid Culture with a Multicellular MPS using a Dynamic and Novel Platform
36	533	4:30 - 6:00 pm	Ryan Koppes	3D Neural interfaces on Chip
37	534	10:00-11:30 am	Chiao Hwei Lee	Cell shape dominates over physiological substrate stiffness by limiting nuclear localisation of the fibrogenesis gatekeeper, YAP/TAZ
38	535	4:30 - 6:00 pm	Abigail Koppes	Microphysiological Systems for Studying Enteric Neuron - Epithelial Interactions
39	536	10:00-11:30 am	Alexandra Maertens	Using Weighted Gene Correlation Networks Analysis to Explore Similarities and Differences in Genetic Regulatory Netoworks in Glioma, iPSC Brain Organoids, and CNS-Derived Immortalized Cell Lines
40	537	4:30 - 6:00 pm	Ravikumar Krishnamurthy	Pancreatic Islet (PANIS) Microphysiological System for Modeling Type 2 Diabetes
41	539	10:00-11:30 am	Joona Valtonen	Cellular co-culture rather than 3D environment improves cardiomyocyte functionality in gellan gum-gelatin hydrogel
42	540	4:30 - 6:00 pm	Sriram Bharath Gugulothu	3D Bioprinted vascularized tumor model for triple-negative breast cancer disease modeling
43	541	10:00-11:30 am	Hanae Morio	Applicability assessment of human immortalized cell-based blood-brain barrier models for characterization of brain permeability of cyclic peptides
44	542	4:30 - 6:00 pm	Julio Aleman	Physical coupling of a vascularized human liver acinus microphysiological system (vLAMPS) and Pancreatic Islet microphysiological system (PANIS) to recapitulate progressive hepatic insulin resistance and the systematic causal link to type 2 diabetes (T2D)
45	544	10:00-11:30 am	Yoshikazu Kameda	Modeling the interaction between tumor spheroids and vasculature using on-chip vascular bed platform
46	545	4:30 - 6:00 pm	Fikret Emre Kapucu	Human cortical neuronal networks in microelectrode embedded microphysiological system to study functional alterations during alpha-synuclein aggregation and propagation as model for Parkinson's disease
47	546	10:00-11:30 am	Rebeccah Luu	A high-throughput, 28-day, microfluidic model of human gingival tissue inflammation and recovery
48	547	4:30 - 6:00 pm	Siiri Suominen	Liver-on-a-chip: Development of patient-specific liver models utilizing iPSCs and novel microfluidic chip devices
49	548	10:00-11:30 am	Gowri Vishal Gupta Kolluru	Lung-mimicking hydrogel culture systems to study host-pathogen interaction and drug efficacy in tuberculosis
50	549	4:30 - 6:00 pm	Ricky Bayer	A predictive multi-organ-chip platform for cancer precision medicine using automated high-content substance testing
51	553	10:00-11:30 am	Claudia Olaizaola	Novel fabrication strategies to reduce the presence of inert materials inside microphysiological systems
52	554	4:30 - 6:00 pm	Christopher Hughes	The Vascularized Micro-Tumor (VMT): a fully human Microphysiological System platform for testing multiple immuno-oncology therapies
53	556	10:00-11:30 am	Shruthy Kuttappan	Bioinspired Microfluidic Chip for Vascularized Multi-Niche Bone Marrow
54	557	4:30 - 6:00 pm	Sandra González-Lana	Structural and functional impact of co-culturing iPSC-CMs and HCAEC within microfluidic devices exposed to mechanical and electrical stimuli.
55	558	10:00-11:30 am	Yuji Takata	Monitoring drug-induced nephrotoxicity modified by cell polarity in renal proximal tubule epithelial tissue with an impedance measurement system
56	559	4:30 - 6:00 pm	María García-Díaz	Bioprinted hydrogel-based microphysiological systems recapitulating the cellular crosstalk in tissue barriers
57	561	10:00-11:30 am		
58	562	4:30 - 6:00 pm	Kaveena Autar	Utilizing Long-Term Potentiation in iPSC-Cortical Neurons to Investigate CBD and Echinacea as Treatments for Chronic Stress
59	563	10:00-11:30 am	Gowri Vishal Gupta Kolluru	Lung-mimicking hydrogel culture systems to study host-pathogen interaction and drug efficacy in tuberculosis
60	564	4:30 - 6:00 pm	Swetha Kannan	ECG findings and clinical presentations of myocardial ischemia reported among patients with cardiac metastasis from lung malignancies: A Narrative Review
61	565	10:00-11:30 am	Matthieu Lépine	Bioengineering of human vascular networks with controlled geometry using DLP bioprinting
62	566	4:30 - 6:00 pm	Yiannis Paschalidis	Digital Light Bioprinting of an in vitro self-renewing Corneal Limbal Epithelial model
63	570	10:00-11:30 am	Alessandro Bentivogli	Highly biomimetic 3D bioprinted tubular small intestine model leads to in vivo-like differentiation of human adult stem cell-derived organoids
64	571	4:30 - 6:00 pm	Elvira Weber	How adipoids can help us in immune metabolism research.
65	573	10:00-11:30 am	Caroline Archer	Application of advanced in vitro models for mechanistic translational understanding of cardiovascular liabilities.
66	577	4:30 - 6:00 pm	Hannah Graf	Connecting Organs, a standardized approach to multi-organ chip connections
67	578	10:00-11:30 am	Eva-Maria Dehne	Towards a proximal tubule microphysiological system for antisense oligonucleotide safety testing
68	579	4:30 - 6:00 pm	Marie-Line Cosnier	Evaluation of photobiomodulation effects on vascular network using physiological model and vascular network on chip
69	580	10:00-11:30 am		
70	585	4:30 - 6:00 pm	Svenja Wingerter	Virotherapy in vitro – Development of an organ-on-chip model for treatment of tumoroids with oncolytic viruses and chemotherapy
71	586	10:00-11:30 am	Ning Zhang	Differentiation of iPSCs into neocortical neurons in microphysiological environment
72	589	4:30 - 6:00 pm	Floriana Burgio	Establishment of a dynamic in vitro human iPSC-derived blood-brain barrier for investigating the passage of biologics.
73	591	10:00-11:30 am	Zeyu Luo	Cryo(bio)printing for Anisotropic Tissue Manufacturing

74	594	4:30 - 6:00 pm	Olivier Frey	A deep-learning-assisted image analysis and a multiparametric biochemical quantification in human 3D model of non-alcoholic steatohepatitis for high-throughput drug discovery
75	597	10:00-11:30 am	Yan Zu	Lung-on-a-chip with an IOS-PU film to explore the effect of mechanical stretch on cell deformation and proliferation of alveolar epithelial cells
76	598	4:30 - 6:00 pm	Inês Figueira	PERCEPT: a Parkinson's disEase bRain-Chip modEl to unveil Polyphenol meTabolites potential
77	599	10:00-11:30 am	Ikuro Suzuki	An MPS device for in vitro peripheral neurotoxicity assessment based on morphological and electrophysiological characteristics
78	601	4:30 - 6:00 pm	Katharina Schlünder	Microphysiological pancreas-on-chip platform with integrated sensors to model endocrine function and metabolism
79	602	10:00-11:30 am	Deepa Chaturvedi	Modelling of Human Microphysiological Skin System for Preclinical Evaluation of Drug Molecules.
80	603	4:30 - 6:00 pm	Yanuar Dwi Putra Limasale	Engineering glycosaminoglycan-based hydrogels to modulate microvascular network formation in vitro
81	604	10:00-11:30 am	Jesús Ciriza	Nanoparticles Stokes radius assessment through permeability coefficient determination within a new stratified epithelium on chip model.
82	605	4:30 - 6:00 pm	Annika Ahtiainen	Culturing topologically controlled neuron and neuron-astrocyte networks on microelectrode arrays.
83	606	10:00-11:30 am	Ana Carolina Figueira	In vitro oral and topic absorption toxicity test standardization using 3D cell cultures and microfluidic systems.
84	607	4:30 - 6:00 pm	Sophie Werner	Use of a 3D-in vitro model for the assessment of liver metabolism related to neurotoxicity of occupationally relevant chemicals
85	608	10:00-11:30 am	Michelle Brouwer	Antigen specific antibody responses in a human lymph node-on-a-chip for drug development research
86	609	4:30 - 6:00 pm	Sandra Tenreiro	3D human retinal organoid model for the study of early diabetic retinopathy
87	610	10:00-11:30 am	Carlos Sobejano	Development and validation of an airway-infection-on-a-chip microfluidic platform
88	611	4:30 - 6:00 pm	Nilab Haydare	The application of ImmuLUNGTM in inhalation safety assessments and organ-on-chip platforms.
89	612	10:00-11:30 am	Konrad Schmidt	A multi-compartment lung-on-chip model to study the (patho)physiological relevance of biological hydrogels
90	613	4:30 - 6:00 pm	Stavroula Sampani	Microphysiological systems in biomedical research
91	614	10:00-11:30 am	Claire Caygill	SARS-CoV-2 variant infection differences between static and microphysiological system models of the human lung
92	616	4:30 - 6:00 pm	Gianluca Ciardelli	Gelatin methacryloyl hydrogels: a versatile platform to recreate the 3D microenvironment of native tissues in vitro
93	617	10:00-11:30 am	Gianluca Ciardelli	Gelatin methacryloyl hydrogels: a versatile platform to recreate the 3D microenvironment of native tissues in vitro
94	618	4:30 - 6:00 pm	Rudra Bhowmick	Development and characterization of patient derived organoids from human breast tissue
95	619	10:00-11:30 am	Anna Laptii	Biofabrication of a glomerular 3D model by mimicking its functional core components
96	620	4:30 - 6:00 pm	Elisa Moschini	A cell tetraculture model combined with an air-liquid interface exposure system, as easy-to-use alternative technology for in vitro hazard assessment of respiratory sensitizers
97	622	10:00-11:30 am	Brady Lundin	Modeling Clinically Relevant Neural Tube Defect Risk using RosetteArrayTM Technology
98	624	4:30 - 6:00 pm		
99	625	10:00-11:30 am	Michelle D Cherne	Human Gastric Extracellular Matrix as a Matrigel Alternative for Gastric Organoid Culture
100	626	4:30 - 6:00 pm	Yasuyuki Sakai	A new oxygen-permeable material enabling cellular aerobic respiration both in static and perfusion MPS
101	627	10:00-11:30 am	Lu Wang	Discovery of Novel Anti-cancer Components from Celastrol Derivatives Based Patient-derived Colorectal Cancer Organoids
102	628	4:30 - 6:00 pm	Yi-Yu Robin Dai	Endothelialization of bifurcating microchannels for 3D tissue models
103	629	10:00-11:30 am	Peter Pôbiš	Impact of the microfluidic systems on the 2D and 3D cell cultures
104	631	4:30 - 6:00 pm	Francesca Romana Brugnoli	Microfluidic system for automated cellular perfusion: screening compounds on monoamine transporters
105	632	10:00-11:30 am	Jaeseung Youn	Engineered basement membrane enhancing barrier functions of human ips-derived blood-brain barrier model
106	633	4:30 - 6:00 pm	Jaeseung Youn	Epithelial wrinkling and wrinkle-to-fold transition in vitro
107	634	10:00-11:30 am	Hiroyuki Mizuguchi	Development of organoid-derived hepatocytes and enterocytes from human primary cells, biopsy, and iPS cells for pharmaceutical research
108	635	4:30 - 6:00 pm	Hiroki Shirai	Development of a testis tissue culture device for drug toxicity test
109	636	10:00-11:30 am	Julia Roosz	Tumor-on-chip to evaluate CAR-T-cell based cancer immunotherapy efficacy in vitro
110	637	4:30 - 6:00 pm	Marzena Walaszczyk	Bioengineering investigation of multiple Organ-on-chip platforms with an advanced 3D manufacturing process in the field of translational research
111	638	10:00-11:30 am	Xingyu Jiang	Electronic Blood Vessels Based on Microfluidics
112	639	4:30 - 6:00 pm	Jingyu Li	High Throughput Manufacturing of Self-organizing Organoids with Good Uniformity
113	640	10:00-11:30 am	Enrico Cavarzerani	3D dynamic cultures of High-Grade Serous Ovarian Cancer organoids to model innovative and standard therapies
114	641	4:30 - 6:00 pm	Jingyu Li	Application of hiPSC Derived Cardiac Organoids in Drug Evaluation by Electrophysiological Test
115	643	10:00-11:30 am	Bo Tang	A barrier-on-chip platform with integrated impedance measurement generated by a novel fast prototyping approach
116	644	4:30 - 6:00 pm	Theano Tsikari	Isogenic iPSC-based 3D vessel-on-chip model of CADASIL disease reveals vascular smooth muscle cell phenotypic switching upon heterocellular interaction
117	647	10:00-11:30 am	Jan Lichtenberg	Translation of DILI from Regulatory Animals to Human Using 3D Liver Microtissues – Results of the International X-Species DILI Validation Consortium
118	648	4:30 - 6:00 pm	Beren Atac Wagegg	The ADME-Chip: Studying different application routes on a PB/PK compliant preclinical tool
119	649	10:00-11:30 am	benoit Charlot	Cantilever microelectrodes for the monitoring of inner electrical activity of cerebral organoids
120	650	4:30 - 6:00 pm	Fuyin Zheng	Fabrication of Human organoid and organ-on-a-chip based on innervation
121	651	10:00-11:30 am	Rita Ribeiro	SmartHeart - a novel 3D in vitro assay for improved assessment of cardiac drug efficacy and toxicity
122	652	4:30 - 6:00 pm	Sebastien Mosser	Vascularized organ-on-chip models for increased biological relevance on a high-throughput platform
123	653	10:00-11:30 am	Lea Heinemann	A Human Bone/Bone-Marrow-on-a-Chip Approach for in vitro culture of human bone marrow and benchmark against clinical reality
124	654	4:30 - 6:00 pm	Marisa Meloni	Dermopapilla: a self-renewing mini-organ reproduced in 3D scaffold free spheroids
125	655	10:00-11:30 am	Nuria Gines Rodriguez	High-speed volumetric bioprinting of optically-tuned bioresins into liver organoid-laden microphysiological systems
126	656	4:30 - 6:00 pm	Robert Storm	Automation for organoid assays – An integrated system with high-content imaging
127	657	10:00-11:30 am	Elisa Sciurti	Copper ions monitoring in cell culture media via anodic stripping voltammetry: from Transwell® to organ-on-chip systems
128	658	4:30 - 6:00 pm	Jeong-Won Choi	Development of a Novel Human Microphysiological System-Based SELEX Method for Robust Identification of Brain-Targeting Aptamers for CNS Drug Delivery
129	659	10:00-11:30 am	Anthony Heng	Evaluation of chimeric antigen receptor (CAR)-T cell recruitment and efficacy on an Organ-Chip model system
130	661	4:30 - 6:00 pm	Daniela Marques	PERIPHERAL INFLAMMATION MICROFLUIDIC MODEL TO DISCLOSE POLYPHENOLS METABOLITES POTENTIAL
131	662	10:00-11:30 am	Alan Raj Jeffrey Rajendran	Self-organisation of human hepatocytes into hepatic cords on a radially perfused microfluidic device
132	663	4:30 - 6:00 pm	Nina Stelzer	A human Bone/Bone-Marrow-on-a-Chip system for preclinical investigation of new therapeutic approaches for Autosomal Recessive Osteopetrosis
133	664	10:00-11:30 am	Silvia Scaglione	Extracellular vesicles as a next-generation drug delivery platform in a more physiological MPS based microenvironment
134	665	4:30 - 6:00 pm	Deepshika Arasu	Laser-Assisted Bioprinting of iPSCs generates embryoid bodies
135	667	10:00-11:30 am	Mireille Chevallet	Towards the development of a functional hepato-biliairy model to monitor bile canaliculi formation
136	668	4:30 - 6:00 pm	Ben Maoz	Multi-Sensor Origami Platform: Custom 3D Sensing
137	669	10:00-11:30 am	Julia Kapr	HiPSC-derived BrainSpheres mimic neuropathological phenotypes of the Cockayne Syndrome B in vitro
138	670	4:30 - 6:00 pm	Abhishek Jain	Machine learning analysis of oxygen amplifies the physiologically-relevance and translational capacity of vascularized microphysiological systems
139	671	10:00-11:30 am	Abhishek Jain	AngioMT: An in silico platform for digital sensing of oxygen transport through vascularized organ-chips and organoids
140	673	4:30 - 6:00 pm	Abhishek Jain	Integrative cancer biology-on-chip: Proangiogenic pathophysiology of platelets in microcirculation modeled in a tumor microenvironment-chip
141	674	10:00-11:30 am	Evita van de Steeg	Intestine-on-chip: establishment of human intestinal organoids-on-chip for drug absorption & metabolism studies
142	675	4:30 - 6:00 pm	Gerardina Ruocco	Design of an electrical stimulation platform for the in vitro maturation of human adult cardiomyocytes
143	676	10:00-11:30 am	Devin Mair	Preventing PDMS Drug Absorption through incorporation of a PDMS-PEG Block copolymer and Drug Pretreatment
144	677	4:30 - 6:00 pm	Yoni Baert	Completion of meiosis in mouse testicular organoids with improved germ cell survival, steroidogenesis and restoration of a tissue-specific architecture
145	678	10:00-11:30 am	Patrizia Tornabene	Improved in vitro models for studying diabetes using stem cells and a user-friendly microphysiological system
146	679	4:30 - 6:00 pm	Lowry Curley	A High-Throughput Electrophysiology Platform for Compound Screening with a Peripheral Nerve Microphysiological System
147	681	10:00-11:30 am	Mark Miedel	A Patient-Derived iPSC Liver Acinus Microphysiology System as an Innovative Precision Medicine Platform for Optimizing Clinical Trial Design for Nonalcoholic Fatty Liver Disease (NAFLD)
148	682	4:30 - 6:00 pm	Giulia Grimaldi	Developing Ductal Tissues on a Chip
149	683	10:00-11:30 am	Alexis BERNATETS	Renewable oxygen electrode sensor integration within liver organoïd-on-chip microfluidic device
150	685	4:30 - 6:00 pm	Charlotte Schlett	Understanding the neurodevelopmental toxicity of heavy metals through extracellular RNA communication and synaptogenesis
151	686	10:00-11:30 am	Thom van der Made	Optimization of experimental conditions to culture microphysiological kidney tubules in FCS-free media
152	687	4:30 - 6:00 pm	Benjamin Cappiello	A model for high throughput therapeutic screening of peripheral neuropathy in a Human 3D Nerve-on-a-chip microphysiological system
153	688	10:00-11:30 am	Adam Myszczyszyn	A hollow fiber membrane-based liver-on-chip model for prediction of drug transport and metabolism

154	689	4:30 - 6:00 pm	Mairi Sandison	Microwell arrays for long-term confinement and single-cell tracking of phenotypic heterogeneity in vascular smooth muscle populations
155	691	10:00-11:30 am	Verena Schwach	Human Engineered Heart Model for Risk Assessment of Cardiac Arrhythmia
156	692	4:30 - 6:00 pm	Lorenzo Coppadoro	Development and validation of a new versatile and scalable microphysiological device for compartmentalized tissue barriers.
157	693	10:00-11:30 am	Tri Tho Nguyen	Development of an automated laser photoablation setup for the mimicry of a peristaltic motion of the gut
158	694	4:30 - 6:00 pm	Jennifer Harder	Modeling Inflammatory Pathways Associated with Proteinuric Kidney Disease using Kidney Organoids
159	695	10:00-11:30 am	Jibbe Keulen	Multi-Organ Micro-Physiological System Mimics Glycemic Control Mechanics in Human Pancreas-Liver Microfluidic Co-Culture
160	697	4:30 - 6:00 pm	Karla Paterson	Facilitating combination therapy studies in patient-derived 3D tumour models
161	698	10:00-11:30 am	Dohui Kim	Highly permeable nanofibrous microwell array for generation of uniform and mature kidney organoids
162	700	4:30 - 6:00 pm	Simone Perottoni	Multiorgan-on-a-plate microphysiologic platform based on a modular organ-on-a-chip device to address the microbiota-gut-brain axis
163	702	10:00-11:30 am	Kevin Pollard	Respiratory Syncytial Virus Infection of Peripheral Nerve and Spinal Cord Immunocytes Induces Delayed Transient Peripheral Nerve Hyperreactivity and Persistant Spinal Cord Infection
164	703	4:30 - 6:00 pm	Kevin Pollard	Human Microphysiological Model of Afferent Nociceptive Signaling
165	705	10:00-11:30 am	Hajime Miyashita	Development of Cell Culture Environment Sustaining MPS (CCES-MPS) Integrated with a Dialysis Membrane
166	706	4:30 - 6:00 pm	Kenta Shinha	Development of Kinetic-pump integrated microfluidic plate (KIM-Plate) for commercialization
167	708	10:00-11:30 am	Ishan Goswami	Leveraging population of model in silico approach for robust islet tissue development in microphysiological systems
168	710	4:30 - 6:00 pm	Baboucarr Lowe	Durable engineered extracellular matrices with tunable biophysical and biochemical properties for long-term microfluidic culture
169	715	10:00-11:30 am	Daniel Nishizawa	Development of a Culture Medium Perfusion Platform Improving Usability of Microphysiological Systems
170	716	4:30 - 6:00 pm	Pim de Haan	Customizable gut-on-a-chip microsystems with enzymatic digestion for food and drug studies
171	717	10:00-11:30 am	Kristina Bartmann	A human iPSC-based in vitro neural network formation assay to investigate neurodevelopmental toxicity of pesticides
172	718	4:30 - 6:00 pm	Gregory Segala	Systemic & High-Throughput: Liquid Microphysiological Systems
173	719	10:00-11:30 am	Tyler Goralski	Soldier-on-a-chip: interrogating the effects of chemical and biological threat agent exposure using a multi-organ microphysiological system
174	720	4:30 - 6:00 pm	Monieb Ahmed	Towards a microfluidic approach for assessing effects of spatiotemporal oxygen fluctuations in the tumour microenvironment
175	721	10:00-11:30 am	Alexander Kinev	3D Microvascular Inflammation Model Incorporating Human Genetic Diversity Amenable for Microphysiological Systems
176	723	4:30 - 6:00 pm	Zhongze Gu	Development of Automated Microphysiological Systems and AI-Based Algorithms for Drug Evaluation.
177	724	10:00-11:30 am	Tianli Yang	Application of adipose-derived mesenchymal stem cell–derived small extracellular vesicles for bladder reconstruction
178	727	4:30 - 6:00 pm	Eric Gottwald	Oxygen-sensitive 3D cell culture systems – a tool for 3D mito stress tests.
179	728	10:00-11:30 am	Chiara Ghezzi	In vitro 3D human gingival tissue model to study oral microbiome interactions
180	733	4:30 - 6:00 pm	Marc Ferrer	Functional bioengineered 3D neural models with neurovasculature to study neurological diseases and drug screening
181	735	10:00-11:30 am	Francesca Pisapia	Development of highly differentiated human primary proximal tubule MPS model (aProximate MPS FlowTM)
182	737	4:30 - 6:00 pm	Rocky Brighton	Clinical relevance of a liver-heart microphysiological system to inform a patient risk scoring system for QT elongation
183	738	10:00-11:30 am	J. Lowry Curley	Glial cell type composition in a 3D model of the central nervous system
184	741	4:30 - 6:00 pm	Kim Haupt	Bioluminescent Assays for Monitoring Cell Health in Microphysiological Systems
185	742	10:00-11:30 am	Peter Newham	EVOLVING ROLE OF INVESTIGATIVE TOXICOLOGY IN THE PHARMACEUTICALINDUSTRY
186	743	4:30 - 6:00 pm	Bryan Black	Dorsal root ganglion tissue model of acute and chronic nociception using hiPSC co-cultures on microelectrode arrays
187	745	10:00-11:30 am	Linda Griffith	Microphysiological Systems (MPS) Models of Endometriosis and Adenomyosis