

**JUNE 28th 2023**

Poster board number	Abstract ID	Presentation time	Presenter Name	Title
1	246	10:00-11:30 am	Yuki Yamamoto	Application of Human iPSC-derived 3D-structure Alveolar Organoids for Translational IPF Therapeutics Research
2	247	4:30 - 6:00 pm	Alandi van Niekerk	Investigating the anticancer potential of <i>Sutherlandia frutescens</i> in NHI-H69AR cancer mini-tumours
3	249	10:00-11:30 am	Eileen Hallscheidt	Implementation of an intestinal organ-model to investigate the human absorption and first-pass metabolism of pesticides
4	252	4:30 - 6:00 pm	Bo Ram Lee	CHARACTERIZATION AND ROBUST CULTIVATION OF PORCINE INTESTINE STEM CELLS TOWARD ANIMAL TESTING REPLACEMENT
5	253	10:00-11:30 am	Sangmin Jung	Proteomic-phenotypic dual profiling on anti-angiogenic drugs using high-throughput microfluidic platform
6	254	4:30 - 6:00 pm	Haley Ehlers	Vascular inflammation modulates Trans-Endothelial Electrical Resistance and immune cell migration in a scalable organ-on-a-chip platform
7	255	10:00-11:30 am	Mathias Busek	Pump-less Organ-on-a-Chip platform: A versatile tool for cell biological research
8	256	4:30 - 6:00 pm	Olivier Guenat	Immune cell extravasation in lung infection – to tilt or not to tilt?
9	257	10:00-11:30 am	Benedikt Maurer	Towards a fully automated drug testing platform with engineered neural networks in vitro
10	258	4:30 - 6:00 pm	Sweeta Akbari	Fabrication and development of emulsion-templated porous materials for 3D cell culture
11	259	10:00-11:30 am	Begum GOKCE	Investigation of the effects of blood degradation products on brain endothelium and astrocytes by an in vitro BBB model
12	260	4:30 - 6:00 pm	Arjen Gebraad	Assessment of vasculogenic potency of bone marrow derived stem/stromal cells from multiple myeloma and acute myeloid leukemia patients in a microfluidic chip
13	261	10:00-11:30 am	Tomas van Dorp	Encapsulating Micro-Engineered Heart Tissues-on-Chip in Bioactive Hydrogels to Integrate Vascularization
14	262	4:30 - 6:00 pm	Cécile Bosmans	Emulating physical dynamics of arterial blood vessels and neighbouring tissue interaction
15	263	10:00-11:30 am	Laura de Heus	Optimization of iPSC-derived endothelial cell culture in 3D hydrogel-based vessel-on-chips for studying long-term vascular dysfunction
16	264	4:30 - 6:00 pm	Sarah Plöger	Integration of patient-derived microtumors and autologous immune cells into tailored organ-on-chip platforms for the study of cancer-immune interactions and pharmacological interventions
17	265	10:00-11:30 am	Marie Hut	Microfluidic perfusion system for single organoid culture and isolation of its secreted extracellular vesicles
18	266	4:30 - 6:00 pm	Katarina Vulić	In vitro axon structuring in microfluidic devices with nanoscale spatial constraints
19	267	10:00-11:30 am	Xinyu Zhang	In vitro mechanical and electrical mapping of hPSC-derived cardiomyocytes
20	268	4:30 - 6:00 pm	Bram Meijlink	Microvessel-on-a-chip model for studying ultrasound and microbubble-mediated drug delivery
21	269	10:00-11:30 am	Ferran Lozano Juan	Patient specific cardiac model of dilated cardiomyopathy in a beating heart-on-chip
22	270	4:30 - 6:00 pm	Samah Abousharieha	3D-PRINTED DEVICE PROVIDING VOLUMETRIC COMPRESSION AND STRAIN FOR CORTICAL BRAIN ORGANOID
23	271	10:00-11:30 am	Philipp Paulitschke	New non-invasive, label-free monitoring approach for 2D and 3D cell culture
24	272	4:30 - 6:00 pm	Angela Ibler	Using a complex NASH in vitro model for drug development with siRNA technology
25	273	10:00-11:30 am	Moritz Pfeifenberger	Development of an innovative cartridge bioreactor for parallelized cultivation and mechanical stimulation of complex tissue models
26	274	4:30 - 6:00 pm	Hoon Suk Rho	3D Manufactured Microphysiological System for Modeling Tissue-to-Tissue Barriers
27	275	10:00-11:30 am	Lenie van den Broek	A 3D lung tumor on a chip model to study the modulation of T cell infiltration under flow conditions in a high-throughput microfluidic culture system
28	276	4:30 - 6:00 pm	Karlis Grindulis	Organ-on-Chip device suitable for anaerobic conditions and decreased drug absorption
29	277	10:00-11:30 am	Rodrigo Torres García	Contractile force measurement in a beating heart-on-a-chip
30	278	4:30 - 6:00 pm	Raul Silva	Bridging the gap - how human microphysiological systems improve the translatability of NASH Drug Discovery
31	279	10:00-11:30 am	Cecilia Palma	Investigating the contribution of cartilage and synovium to osteoarthritis development through a compartmentalized human joint-on-chip model
32	280	4:30 - 6:00 pm	Agnieszka Rybak-Wolf	Brain organoids to model human brain diseases
33	282	10:00-11:30 am	Katharina Schimek	3D spheroids of the pancreatic beta cell line EndoC-βH5 for modelling diabetes mellitus in a microphysiological system
34	283	4:30 - 6:00 pm	Xiomara Fernández-Garibay	Xeno-free bioengineered human skeletal muscle tissues
35	284	10:00-11:30 am	Heleen Middelkamp	The effect of embedded macrophages on intravascular coagulation in 3D vessels-on-chips
36	285	4:30 - 6:00 pm	Aimee Parker	An in-vitro platform to test mediators of neuronal death in Parkinson's disease and neurodegenerative disorders.
37	286	10:00-11:30 am	Insa Peters	Use of organ-on-a-chip technology in preventive doping research to predict possible metabolites for the calstabin-ryanodine receptor complex stabilizer S107
38	287	4:30 - 6:00 pm	Alessandro Cordiale	TOOTH ON A CHIP: a MPS to mimic innervated dental pulp and mineralised interface
39	290	10:00-11:30 am	Giuseppe Carignano	Realization of an Organ-on-chip for the study of gastrointestinal chronic diseases, carcinogenesis and tumors.
40	291	4:30 - 6:00 pm	Marta Bareny	Bone-on-a-chip: culture of human 3D bone-like organoids in a self-designed microphysiological system to model intramembranous ossification.
41	293	10:00-11:30 am	Karina Narbute	Preclinical drug delivery testing and evaluation using lung-on-a-chip technology
42	294	4:30 - 6:00 pm	Noemi Petese	EIS Chip for precision medicine: measuring Sorafenib Effectiveness on HCC Cell Proliferation
43	295	10:00-11:30 am	Doriane Le Manach	Generation of miniaturized, vascularized microtissues with human extracellular matrix and tumor microenvironment for chemosensitivity testing of head & neck cancers
44	296	4:30 - 6:00 pm	Dik van Gent	Cancer-on-chip assay for paclitaxel sensitivity of breast cancer tissue
45	297	10:00-11:30 am	Cara Buchanan	HLA diversity and compatibility in immunocompetent human tissue models
46	299	4:30 - 6:00 pm	Alinda Anameric	Complex 3D Models for Head and Neck Squamous Cell Carcinoma (HNSCC)
47	300	10:00-11:30 am	Sebastien Teissier	REVSkin, a skin-on-chip equivalent with advanced blood-flow mimicry, represents a significant improvement in 3D culture models for wound-healing and skin-ageing studies.
48	302	4:30 - 6:00 pm	Siegfried Graf	Smart Lid for automated sampling and glucose measurement
49	303	10:00-11:30 am	Dhanesh Kasi	Engineered microvascular networks using controlled hydrogel structuration on-chip
50	304	4:30 - 6:00 pm	Pauline Zamprogno	IPF-on-chip model based on biological membranes
51	305	10:00-11:30 am	Massimo Alberti	Permeation of small molecules through biological and synthetic skin simulants using an organ-on-chip platform
52	306	4:30 - 6:00 pm	Emily Jones	Development of a robust multi-organ-chip system for human disease modelling.
53	307	10:00-11:30 am	Arnita Spule	Development of a Real-time Cellular Barrier Integrity Monitoring System in PDMS-free Lung-on-Chip devices
54	308	4:30 - 6:00 pm	Arunima Sengupta	A new lung-on-chip platform for acute inhalation toxicity assessment and treatment
55	310	10:00-11:30 am	Sohaila Zeinali	Unleashing the Intravasation potency of Non-Stem-Like Lung Cancer Cells with EMT Features: A Functional Microvasculature Approach
56	311	4:30 - 6:00 pm	Iman van den Bout	A breast cancer derived organoid model reveals an unlikely event: How in vitro data can inform in vivo tumour behaviour
57	312	10:00-11:30 am	Katja Graf	An innovative three-channel micro cavity-equipped microfluidic biochip to generate patient-derived pancreatic cancer spheroid-on-a-chip models for screening novel therapeutic approaches
58	315	4:30 - 6:00 pm	Sri Harsha Paladugu	Multi-Organ-on-Chip to Study Breast Cancer Metastasis
59	318	10:00-11:30 am	Tanja Zidarič	A representative full thickness skin model with optimised geometry simulating the dermis and epidermis
60	320	4:30 - 6:00 pm	Tessa de Vries	Flow affects orientation of iPSC-derived vascular smooth muscle cells in a patient-specific 3D blood vessel model mimicking in vivo morphology and pharmacological functioning of arteries
61	321	10:00-11:30 am	Hélia Fernandes	Design of a bioprinted microfluidic chip as a tumor liver model for drug screening
62	322	4:30 - 6:00 pm	Sarah Heub	Multi-axis MPS enabling in vitro tissue mechanical stimulation for musculoskeletal research
63	323	10:00-11:30 am	Angelina Freitag	Studying liver-islet crosstalk in a microphysiological system under healthy and diseased conditions
64	326	4:30 - 6:00 pm	thomas Meynard	DEVELOPMENT OF AN INSTRUMENTED MICROFLUIDIC SYSTEM TO STUDY CHEMORESISTANCE IN PANCREATIC DUCTAL ADENOCARCINOMA
65	328	10:00-11:30 am	Julia Kühnlenz	Optimisation of 3D Thyroid and Liver Models for cross-species Comparison of Thyroid Toxicity Mechanisms
66	329	4:30 - 6:00 pm	Flora Clément	Influence of diabetes on pancreatic ductal adenocarcinoma modelled in a pancreas-on-a-chip
67	333	10:00-11:30 am	George Truskey	Effect of Adenine Base Editing on the Function of a Tissue-Engineered Vascular Model of Hutchinson-Gilford Progeria Syndrome
68	334	4:30 - 6:00 pm	Elke Bremus-Köberling	3D Printed Organ-on-Chip System for Immunologic Studies
69	335	10:00-11:30 am	Hazal Kutluk	Well-Defined Extracellular Matrices in Organ-on-Chips: A New Approach
70	336	4:30 - 6:00 pm	Chen Cheng Wang	An improved differentiation protocol for human stem cell-derived islets
71	337	10:00-11:30 am	Jana Van Dycke	Human intestinal enteroids to identify antiviral targeting enteric viruses and the host immune response.
72	338	4:30 - 6:00 pm	Alexandra Damerou	An innovative bioreactor platform: Fluidic shear stress reduces TNFα-mediated cartilage damage in a 3D model of degenerative joint disease
73	340	10:00-11:30 am	Flavio Bonanini	In vitro grafting of hepatic spheroids and organoids on a microfluidic vascular bed
74	341	4:30 - 6:00 pm	Annina Stuber	Aptamer-modified Nanopipettes for In Situ Monitoring of Microphysiological Systems
75	342	10:00-11:30 am	Stefanie Hoffmann	Establishment of an MPS model for routine testing of drug candidates and their effect on the intestinal barrier
76	343	4:30 - 6:00 pm	Chutong Zhong	Tubule-on-a-Chip: Culture and Analysis of a Novel Immortalised Human Distal Convoluted Tubule Cell Line in an Organ-on-a-Chip System
77	344	10:00-11:30 am	Maria Warschinke	-Clostridiodes difficile infection in a primary human intestinal gut-on-chip
78	346	4:30 - 6:00 pm	Lena Brücker	Validation of primary human hepatocyte spheroids for early ADME assessments
79	348	10:00-11:30 am	Sally Williamson	Combining tumor-on-chip technology and metabolic imaging to monitor treatment efficacy of cancer therapies on Patient Derived Microtumors
80	349	4:30 - 6:00 pm	Dowlette-Mary Alam El Din	Functional Assessment of hiPSC Derived Brain Organoids to Study the Effects of Chemical Exposure and Electrical Stimuli on Synaptic Plasticity
81	350	10:00-11:30 am	Enrico Accastelli	Beating heart-on-a-chip: Integration of electrodes to measure contractility of cardiac spheroids
82	351	4:30 - 6:00 pm	Tim Kaden	DSS-induced colitis-on-chip model to study the therapeutic potential of the secondary bile acid lithocholic acid in vitro

83	352	10:00-11:30 am	Paolo Cesare	Cancer-mediated Chemoattraction drives Axonal Guidance and Excitability of 3D Sensory Neurons in a Compartmentalized Innervation Chip
84	353	4:30 - 6:00 pm	Lok Chun Fan	Single-cell resolution spatial transcriptomics on High Density CMOS MEA chips
85	354	10:00-11:30 am	David Parnies	Are glycol ethers neurotoxic for humans? An in vitro and in silico evaluation.
86	355	4:30 - 6:00 pm	Linnea Johansson	Evaluation of two complex 3D in vitro human alveolar co-cultures for prediction of lung inflammation and toxicity
87	356	10:00-11:30 am	Anastasiia Dubrova	Tumor-on-chip model to decipher the effect of nanoparticle-mediated photothermia (NP-PTT) on tumor microenvironment of pancreatic ductal adenocarcinoma (PDAC)
88	357	4:30 - 6:00 pm	Sophia Coffy	On chip pancreatic cancer modelling with decellularized extracellular matrix from pancreas.
89	358	10:00-11:30 am	Rahman Sabahi-Kaviani	Combining microtunnel devices and actuator chips: Instructive microenvironments for neural networks
90	359	4:30 - 6:00 pm	Sabrina Nicolò	Coupling a novel, bicompartimental MPS with a 3D, commercially available, human small intestinal tissue model to assess drug permeation and absorption
91	360	10:00-11:30 am	Anas Munir	Beta cell death and IAPP: an examination through the lens of organoids on chip
92	361	4:30 - 6:00 pm	Robin Pampiermole	Developing a hiPSC-derived blood-brain barrier model to test barrier opening by microbubbles and focused ultrasound
93	362	10:00-11:30 am	Julia Hauptstein	Development of a 3D Kidney-on-a-Chip Model using iPSC-derived Proximal Tubule Cells
94	363	4:30 - 6:00 pm	Sheeza Mughal	Decoding Chronic Fatigue Syndrome and Long-COVID-19 using bioengineered 3-D in vitro skeletal muscle tissues.
95	364	10:00-11:30 am	Elizabeth M. Boazak	Connecting the human intestine and liver: a primary jejunum and primary hepatocyte multi-organ MPS for more predictive studies of human drug ADME and oral bioavailability
96	365	4:30 - 6:00 pm	Henry W. Hoyle	Development of an in vitro bile-duct-on-a-chip-platform using patient-derived cholangiocytes
97	366	10:00-11:30 am	Beatrice Anna Brugger	Combination of cell- and tissue culture in a new fluidic flow chamber to investigate biological pathways on a physiological level
98	367	4:30 - 6:00 pm	Nilesh Kumar	A multiorgan-on-chip platform combining a tumor chamber and blood vessel for studying the intersection between Type 2 diabetes mellitus and cancer metastasis
99	368	10:00-11:30 am	Jana B. Petr	Dynamic Platform for Continuous, High-Resolution Imaging of Organotypic Brain-Tissue Slices
100	369	4:30 - 6:00 pm	Blandine Clément	Development of hydrogel-based 3D in vitro neuronal networks
101	371	10:00-11:30 am	Björn de Wagenaar	Organ-on-Chip device integration and biological evaluation inside the smart multi well plate
102	373	4:30 - 6:00 pm	Angelica B. Patterson	Glioblastoma patient-derived organoids: Characterizing the effect of Tumor Treating Fields on the immune cell microenvironment
103	374	10:00-11:30 am	Ana Ribeiro	Development of epidermis-on-a-chip for toxicological evaluation of nanomaterials
104	375	4:30 - 6:00 pm	Barış Dedekarginoğlu	Rapid Prototyping of Microfluidic Co-culture Platform based on a 3D Printing Workflow for Systematic Investigation of Tumor Stromal Interactions
105	376	10:00-11:30 am	Philipp Hauger	Analysis of endothelial barrier function and polarity in 3D microvascular networks
106	377	4:30 - 6:00 pm	Dr Alessandra Grillo	Development of a 3D organ-on-chip model of the collecting duct for disease modelling
107	378	10:00-11:30 am	Devin Veerman	Retina-on-chip: Designing a PDMS-based Microfluidic Chip with 2 µm-thick Membranes for Culture of iPSC-Derived Retinal Pigment Epithelium
108	380	4:30 - 6:00 pm	Angela Russo	Increased local testosterone levels alter human fallopian tube genetic profile and signaling on the PREDICT-MOS microfluidic platform
109	381	10:00-11:30 am	Sujey Palma-Florez	Human cortical neurons incorporation into blood-brain barrier microfluidic model for drug screening in neurodegenerative diseases
110	382	4:30 - 6:00 pm	Lotta Isoaari	Simultaneous induction of vasculature and neuronal networks formation on a chip reveals a dynamic interrelationship between cell types
111	383	10:00-11:30 am	Giacomo Cretti	Development of advanced setups with integrated readouts for evaluation of cardiotoxicity in a heart on chip device
112	384	4:30 - 6:00 pm	Elisa Monti	Development of a liver-heart Multi Organs-on-Chip platform for drug toxicity studies
113	386	10:00-11:30 am	Stefan Grünzner	Utilizing commercially available automated stacking machines to scale organ-on-chip manufacturing from prototype to volume production
114	387	4:30 - 6:00 pm	Albert van Breemen	Beyond mobile phone displays: leveraging flat panel display technology for biomedical applications.
115	388	10:00-11:30 am	Miina Björninen	Studying the effect of ischemia on tissues – A research overview of the Centre of Excellence in Body-on-Chip Research (CoEBoC)
116	389	4:30 - 6:00 pm	Jenny Walker	Integrated oxygen and TEER sensing enable rapid kidney toxicity detection in a high-throughput co-culture of the human proximal tubule
117	390	10:00-11:30 am	Kaisa Tornberg	Compartmentalized structure for hypoxia and control of oxygen microenvironments with good spatiotemporal precision
118	391	4:30 - 6:00 pm	Alma Yrjänäinen	The generation of conjoined 3D vasculatures within a novel barrier-free, open top microfluidic chip for multi-tissue modelling
119	392	10:00-11:30 am	Mari Pekkanen-Mattila	Modeling cardiac ischemia-reperfusion and border zone by using human induced pluripotent stem cell-derived cardiomyocytes.
120	393	4:30 - 6:00 pm	Tobias Ruff	Engineering a microfluidic based living neural interface towards vision restoration
121	395	10:00-11:30 am	Janis Plume	Analysis of RNA content of anaerobic microbiota derived extracellular vesicles using organs on a chip
122	396	4:30 - 6:00 pm	Erin Spiller	Bioprinting effects on organoid proliferation, differentiation, and metabolism
123	398	10:00-11:30 am	Maryna Somova	The characterization of a kidney cancer microphysiological system to investigate the impact of the SARS-CoV-2 virus spike protein on renal pathophysiology
124	399	4:30 - 6:00 pm	Emma Lund	Application of an Autologous Human 3D Vessel-on-a-Chip Cytokine Release Assay System to Predict the Safety of Novel Biologics
125	400	10:00-11:30 am	Caitlin Jackson	Inherently porous polycaprolactone substrates for in vitro 3D breast cancer cell culture for MPS applications
126	402	4:30 - 6:00 pm	Paula Zachen	Polymorphonuclear neutrophils and monocytes are circulating vectors of transmission in the establishment of secondary infection foci by Staphylococcus aureus in a perfused model
127	405	10:00-11:30 am	Nicole Engert	Stem cell-derived gut-on-chip technology to elucidate human Norovirus infections
128	406	4:30 - 6:00 pm	Gabriele Pitingolo	Process for bonding separate substrates by gelatin coating: applications in microfluidics
129	407	10:00-11:30 am	Léa Todeschini	A new Barrier-on-Chip system for straightforward workflow integration
130	408	4:30 - 6:00 pm	Alessandra Maria Anna Rando	Direct evaluation of substrate's effects on intestinal epithelium cell cultures through a novel MPS for unbiased comparative studies
131	409	10:00-11:30 am	Mitchell Han	Stimulating 3D Skeletal Muscle Microtissues in a Novel Perfusable Microphysiological System with Integrated Electrodes
132	411	4:30 - 6:00 pm	Laurène Froment	The alveolus in the spotlight: how to translate lung in vitro studies into clinically relevant outcomes
133	414	10:00-11:30 am	Lucile Rabiet	Human mesenchymal, liver, and endothelial cells self-organization in spheroids in an acoustofluidic microphysiological system depends on cell type-specific mechanical properties
134	415	4:30 - 6:00 pm	Julian Gonzalez-Rubio	Vascularized 3D airway-on-a-chip with air and media perfusion to study COVID-19 and other respiratory diseases
135	417	10:00-11:30 am	Amin Forouzanmehr	In silico replication of hypoxia dynamics and readouts of an ischemia/reperfusion MPS for system identification and pharmacological investigations
136	418	4:30 - 6:00 pm	Aurelien Lepoetere	From materials to manufacturing: a journey towards microfluidics production standardization
137	419	10:00-11:30 am	Hannu Välimäki	Cell-friendly 3D oxygen imaging for microphysiological systems
138	420	4:30 - 6:00 pm	Simone Bersini	A microfluidic model of human vascularized breast cancer metastasis to bone for the study of immune-cancer cell interactions
139	421	10:00-11:30 am	Maxime Mauviel	Development of an opto-microfluidic assay, to probe signaling and function in glomeruli-on-chip.
140	422	4:30 - 6:00 pm	Amanda Ulrey	Key Recommendations from GIVIMP for Test System Suppliers
141	424	10:00-11:30 am	Shima Salehi	Development of a vascularized osteochondral microfluidic model as a drug screening tool for osteoarthritis
142	425	4:30 - 6:00 pm	Teodora Randelovic	Immunomodulation in glioblastoma-on-chip
143	427	10:00-11:30 am	Ella Lampela	A novel, animal-free culturing setup for vascularized, 3D engineered muscle bundles
144	428	4:30 - 6:00 pm	Victor Krajka	Microfluidic multi-compartment perfusion device with integrated microelectrode arrays for neuronal research
145	429	10:00-11:30 am	Camille Laporte	Improving reconstructed skin models by mechanical stimulation in organ-on-chip devices
146	430	4:30 - 6:00 pm	Michelle Trempel	Modeling intrinsically weak blood brain barriers in CNS disease using the µSiM platform with patterned defects in nanomembranes.
147	431	10:00-11:30 am	Martin Nurmik	Advances and challenges in generation of patient-derived tumor-on-chip (PD-ToC) models for time-efficient clinical decisions
148	433	4:30 - 6:00 pm	Mashudu Mphaphuli	A Novel 3D Printed Multi-Component scaffold for targeted Spinal Tuberculosis therapy
149	434	10:00-11:30 am	Torsten Mayr	Determination of respiration and acidification rates in dynamic cell cultures and organ-on-chips
150	435	4:30 - 6:00 pm	Agathe Figarol	A vascularized glioblastoma multiforme within a 3D perfused microphysiological system: combining a self-organized microvasculature and a central venule in a hydrogel.
151	436	10:00-11:30 am	Emily Könnicke	Transmission electron microscopy (TEM) study of in vitro cultured human placenta explants shows tissue remodeling
152	437	4:30 - 6:00 pm	Asli Kisim	A liver pre-metastatic niche model for the investigation of invasion of breast cancer on lab-on-chip platforms
153	438	10:00-11:30 am	Satu Jääntti	Seizures-on-chip to model human epilepsies
154	439	4:30 - 6:00 pm	Julia Rogal	Disease modeling of impaired brain glucose metabolism using patient-specific iPSC-derived microphysiological models of the neurovascular unit
155	440	10:00-11:30 am	Robert Moyer	Development and Characterization of a Breathing Primary Human Bronchial Epithelial Model Grown on the AlveoliX Lung-on-Chip System
156	443	4:30 - 6:00 pm	Altuğ Özcelikkale	Parametric Design and Manufacturing of Mammary Carcinoma Chip by Stereolithography for Simulating Drug Transport Around the Tumor
157	445	10:00-11:30 am	Stefanie Fuchs	Optical glucose sensor for on-line and at-line measurements of MPS
158	446	4:30 - 6:00 pm	Valerija Movcana	Cytotoxic effects of mesenchymal stromal cell-derived extracellular vesicles in PDMS-free lung cancer-on-a-chip
159	448	10:00-11:30 am	Lisa Hoelting	Scalable 3D human adipose in vitro model for its application in a multi-tissue metabolic disease microphysiological system
160	450	4:30 - 6:00 pm	Joose Kreutzer	Pneumatically actuated mechanobiological platform for cyclic cell stretching and compression studies
161	451	10:00-11:30 am	Bastien Duckert	Spatially resolved transfection on a microelectrode array for tissue engineering applications
162	452	4:30 - 6:00 pm	Laura Soriano-Romaní	An optimized GUTonChip model for intestinal absorption simulation
163	453	10:00-11:30 am	Tamara Haefeli	Functional characterization of interaction of immune cells and 3D tumor spheroids in a microfluidic system
164	454	4:30 - 6:00 pm	Sanna Koskimäki	Mechanosensitive TRPV4 channel guides maturation and organization of the bilayered mammary epithelium
165	455	10:00-11:30 am	Mridu Malik	Pharmacokinetic modeling of oral and intravenous modes of drug delivery in a pulpless microphysiological dual barrier model towards in vivo/in vitro translations

166	458	4:30 - 6:00 pm	Jason Ekert	Using an in vitro neuromuscular junction model to investigate the effect of zilucoplan on functional impairment induced by AChR+ myasthenia gravis patient sera
167	459	10:00-11:30 am	Tarada Tripetchr	Establishment of an in vitro immunocompetent skin model system for skin sensitization assay as an alternative to animal models
168	460	4:30 - 6:00 pm	Saumey Jain	Microphysiological pipeline for reprogramming and differentiation – improving homogeneity and standardization
169	461	10:00-11:30 am	Kévin Gillois	Adaptation of organ-on-a-chip technology to BSL-3 environment: case study of SARS-CoV-2 infection on a long-on-a-chip model.
170	462	4:30 - 6:00 pm	Sholto de Wet	Assessing mitochondrial and autophagic changes brought about by Memantine using the mitochondrial event localiser (MEL)
171	463	10:00-11:30 am	Niklas Wiese	Posttransplant lymphoproliferative disorder in the lung - development of an EBV infection model as a proof-of-concept test platform for EBV-specific T cell products
172	464	4:30 - 6:00 pm	Hannes Campo	Recreating Pathological Endocrine Signalling Associated With PCOS Using Lattice, a Tissue-Agnostic Multi-Organ Microfluidic Platform.
173	465	10:00-11:30 am	Olakunle Oladimeji	Anticancer Potential of Sutherlandia frutescens in NCI-H69V Small Cell Lung Cancer Mini-Tumors.
174	466	4:30 - 6:00 pm	Mandy Esch	Two-organ MPS with liver and heart tissues for early-stage drug evaluation
175	467	10:00-11:30 am	Natali Barakat	Inhibition of metalloproteinases extends longevity and function of in vitro aged human iPSC- skeletal muscle
176	469	4:30 - 6:00 pm	Marla Dubau	Autologous approach to develop an immunocompetent skin model using iPSC-generated fibroblasts, keratinocytes, and dendritic cells
177	470	10:00-11:30 am		
178	471	4:30 - 6:00 pm	Thayná Avelino	A feasible model of in vitro adipose tissue for metabolic research
179	473	10:00-11:30 am	Isabelle Linares	Engineering a Microfluidic Human Tendon-on-a-Chip to Investigate Inflammatory Mechanisms in Tendon Healing
180	476	4:30 - 6:00 pm	Ying Wang	A Human-based Multiorgan Microphysiological System for Breast Cancer Metastasis Modeling
181	477	10:00-11:30 am	Frederic BOTTAUSCI	Improved Frequency Production of Controlled Microencapsulation using High Viscosity Polymer in Low-Cost Centrifugal Device
182	478	4:30 - 6:00 pm	Alodia Lacueva-Aparicio	An optimized kidney-on-a-chip model for handling graphene nanoparticles
183	481	10:00-11:30 am	Claudia Gärtner	A microfluidic multiorgan platform for automated cell culture utilizing iPSC-derived cells
184	482	4:30 - 6:00 pm	Victor Zhang	Altering type I to type III collagen ratio for accurate microphysiological models of tendon injury
185	485	10:00-11:30 am	Zehra Uyar-Aydin	A 3D model for the survival niche of human long-lived bone marrow plasma cells
186	486	4:30 - 6:00 pm	Alessandro Dei	Advanced in vitro human airways models to study viral infections and perform antiviral drug screenings
187	487	10:00-11:30 am	Breanne Kincaid	Heavy metals and metal mixtures elicit differential impacts on neurodevelopment in human 3D brain model