| | TUESDAY, JUNE 11 | | | | | | |
|-----------------|--|------------------------------|---|--|--|--|--|
| | 10:00 AM - 11:30 AM | | | | | | |
| Poster Board | Abstract | | | | | | |
| Number | ID | Presenter | TRACK 1: MPS for (patho)physiology | | | | |
| | SESSION: 1.1 MPS for cardiovascular diseases | | | | | | |
| 1 | 71 | Jingyi Zhu | Unraveling Cardiac Device Infection: Tissue Engineered Blood Vessels as a Microphysiological Model | | | | |
| 2 | 81 | Bettina Lickiss | Contractility-based pharmacological characterization of hiPSC-derived atrial and ventricular cardiomyocytes for preclinical toxicity testing | | | | |
| 3 | 104 | Pimonrat Ketsawatsomkron | p-cresol compromises vascular barrier and induces endothelial cytotoxicity and inflammation in 3D human microvessel-on-a-chip | | | | |
| 4 | 162 | Alessia Moruzzi | SpheroFlow: a user-friendly Heart-on-Chip integrating hiPSC-derived cardiac 3D microtissues amenable for multi-parametric non-invasive monitoring | | | | |
| 5 | 1 | Kevin Healy | Vascular Microphysiological System as an Organ Preservation Testbed | | | | |
| | 320 | incom rically | | | | | |
| 6 | 570 | Kevin Shani | Modeling Flecainide Response in Catecholaminergic Polymorphic Ventricular Tachycardia with Microphysiological Systems | | | | |
| 7 | 626 | Aaron Rogers | Biomanufacturing in Low Earth Orbit | | | | |
| 8 | + | Christopher J Hatch | 3D vascular niche alters endothelial-stromal crosstalk to support vessel formation | | | | |
| 9 | 662 | Sabrina Staples | Transluminal endothelial bridge formation in a microfluidic vessel-on-chip: critical role of cytoskeletal tuning | | | | |
| | 1 | | SESSION: 1.2 MPS for pulmonary diseases | | | | |
| 10 | 44 | Yun-Chen Wu | A tape-assisted approach to fabricate membrane-containing devices for cultured cells performing breathing movements | | | | |
| 11 | 67 | Jeffrey Morgan | A 3D In Vitro Model of Fibrosis: Measuring the Pathophysiological Biomechanics of the ECM. | | | | |
| 12 | 99 | Thomas Shupe | Microengineered Human Organ Tissue Equivalents for the In Vitro Study of Drugs, Toxins and Infectious Diseases | | | | |
| 13 | 183 | Deborah Ramsey | Small airway lung-on-chip model for evaluating neutrophil-mediated damage in inflamed lung tissues. | | | | |
| 14 | 192 | Satoshi Ikeo | 'Portable' human iPSC-derived alveolar organoids mimicking physiological functions in microfluidic system | | | | |
| 15 | 231 | Marize Valadares | Lung-sens-on-a-chip model for evaluation of respiratory sensitizers aerosols: characterization and applicability. | | | | |
| 16 | 240 | Lea De Maddalena | A novel alveolus-on-chip model of SARS-CoV-2 infection for pre-clinical application | | | | |
| 17 | 245 | Variation Cha | Integrated adult tissue derived lung arganoid microphysiological system for new emerging infectious recoiratory dispasses | | | | |
| 17 | 245 | Young-Jae Cho | Integrated adult tissue-derived lung organoid-microphysiological system for new emerging infectious respiratory diseases Alveolus-on-a-Chip As a Model Platform for Assessing Toxicity after Exposure to Flight-related Compounds via Custom | | | | |
| 18 | 322 | McLendon Patrick | Soot/VOC Generation | | | | |
| | | | A breathable multi-compartment lung-on-chip model to study the (patho)physiological relevance of biological hydrogels in | | | | |
| 19 | 442 | Konrad Schmidt | dynamic conditions | | | | |
| | | | Assessment of Drug Permeability across Healthy and Pathological Bronchial Epithelial: In vitro Organotypic systems vs. | | | | |
| 20 | | Janny Pineiro-Llanes | Immortalized cell line | | | | |
| 21 | 546 | Madeline Eiken | Synthetic hydrogels to interrogate extracellular matrix deposition by alveolar organoids Macrophara expectated alveolar tissue injury and the appoints pyrophesis blockeds in influence infection revealed in a human | | | | |
| 22 | 661 | Yuncheng Man | Macrophage-exacerbated alveolar tissue injury and therapeutic pyroptosis blockade in influenza infection revealed in a human lung alveolus chip | | | | |
| | 001 | Tuneneng Wan | SESSION: 1.3 MPS for cancer research | | | | |
| 23 | 8 | Yaling Liu | Vessel-supported Tumor Model on Chip for Therapeutic Evaluation | | | | |
| 24 | 29 | Pedro Pinto | Microfluidic Prostate-Cancer Model to Study MicroRNA Secretions and Their Potential as Diagnostic Biomarkers | | | | |
| | | | Alternative-to-animal lung adenocarcinoma model: Characterization, validation, and therapeutic insights using a spheroid | | | | |
| 25 | | Pooja Sawant | model | | | | |
| 26 | 47 | Olivier UWISHEMA | Revolutionizing Neurotherapeutics: Blood-Brain Barrier-On-A-Chip Technologies For Precise Drug Delivery A Two-Step Approach to Biofabricating an Advanced Microphysiological System Mimicking Phenotypical Heterogeneity and | | | | |
| 27 | 55 | Sirjana Pun | Drug Resistance in Human Glioblastoma | | | | |
| 28 | | Rachel Perez | Combining patient-derived tumor organoids and an organ-on-chip system to model colorectal cancer progression | | | | |
| 29 | 60 | Hannah Graf | A standardized plug&play multi-organ chip connection to study interactions between tumor and lymphoid tissue | | | | |
| 30 | 88 | Keqian Nan | Development of an ex vivo Image-Based Platform for Kidney Precision Immuno-Oncology | | | | |
| 31 | 95 | Thomas Richardson | Development of hydrogels supporting liver immune-microtumors for functional precision medicine | | | | |
| 32 | 96 | Curran Shah | combined influence of kras mutational status and peristaltic-like forces promotes tumor cell intravasation in organ on chip model of colorectal cancer | | | | |
| 33 | 122 | Manyna Somova | Unveiling Molecular Dynamics of SARS-CoV-2 Spike Protein in the Renal epithelium using a Microphysiological approach (MPS) | | | | |
| 34 | | Maryna Somova Julia Alber | Real time imaging of treatment response in an immunocompetent tumor-on-chip | | | | |
| 35 | 1 | Mariana Viso | Engineering Immune-driven Stromal Remodeling in Pancreatic Cancer within a PDMS-free MPS | | | | |
| 36 | 1 | Sriram Bharath Gugulothu | Perfusable 3D Bioprinted tumor model for triple-negative breast cancer immunotherapeutics screening | | | | |
| 37 | | Gemma Nomdedeu-Sancho | Development of Skin Organoids as a Universal Platform for Skin Physiology, Injury, and Disease Modeling | | | | |
| | | | Development of a vascular liver tumor model using a micro-dissected patient-derived tumor xenograft and a physiologically | | | | |
| 38 | 184 | Yu-Hsiang Hsu | controlled MPS system | | | | |
| 39 | 199 | Jose Antonio Reales-Calderon | Vascularization of Tumor Spheroids in the organiX System for Immuno-oncology Applications | | | | |
| 40 | 207 | Giulia Amos | Towards a 3D hydrogel platform to study glioblastoma invasion in vitro | | | | |

| Poster | | | | | | |
|--------------------------------------|--------------|------------------------|--|--|--|--|
| Board | Abstract | | | | | |
| Number | ID | Presenter | Title | | | |
| SESSION: 1.3 MPS for cancer research | | | | | | |
| 41 | 209 | Chrisna Gouws | Establishing a doxorubicin-resistant triple-negative breast cancer spheroid model | | | |
| 42 | 210 | Atsuya Kitada | Parallel cultivation and evaluation of multiple vascularized tumor spheroids using a microfluidic device | | | |
| | | | Assessment of immune cell infiltration and cancer metastatic potential in Akura™ Immune Flow Chip - a microfluidic 3D | | | |
| 43 | | Lisa Hoelting | spheroid system | | | |
| 44 | | Thomas Sommermann | A microfluidic spheroid-on-a-chip model of vascularized pancreatic cancer for screening novel therapeutics | | | |
| 45 | | Simon Sayer | An artificial immune niche and an in vitro tumor model enabled by high-resolution 3D printing | | | |
| 46 | <u> </u> | Kimia Abedi | A Bioprintable Model of Glioblastoma for Dissecting Cellular Mechanisms of Tumor Invasion and Drug Resistance | | | |
| 47 | 292 | Adeel Ahmed | A Patient-Specific, Organotypic Head and Neck Cancer Model For Personalized Medicine | | | |
| 48 | 298 | Angelo Massaro | Development of an In Vitro Colon Crypt Model to Study the Interdependent Relationship of Underlying Fibroblasts and Intestinal Epithelial Cells | | | |
| 49 | 300 | Arturs Abols | Testing of Patient-Derived Stem Cell Extracellular Vesicles Loaded with Cisplatin in a Personalized Lung-Cancer On-Chip Platform | | | |
| 50 | 361 | Shay Soker | Assessing the Effects of BAPN and Marimastat on Collagen Remodeling in an Ex-Vivo Tumor Organoid Model | | | |
| | | | Exploring the effects of fluid velocity and shear stress on the metastatic potential of circulating tumor cells in engineered | | | |
| 51 | 372 | Marie Floryan | organ-specific environments. | | | |
| 52 | 378 | Jerome Lacombe | ASTEROIDS- spheroid on chip to reproduce the lung tumor microenvironment | | | |
| 53 | 423 | Zhipeng Dong | Microfluidic blood-brain barrier chip for identifying repurposable drugs as glioblastoma chemotherapeutic agents. | | | |
| 54 | 438 | Haru Yamamoto | Single-cell analysis reveals characteristics of feline mammary tumor organoid derived from patients | | | |
| | | | Development of a 3D biomimetic microenvironment with engineered cell-matrix interactions to investigate in vitro | | | |
| 55 | | Sadegh Ghorbani | glioblastoma cell behaviors | | | |
| 56 | | Stephanie J Hachey | Targeting tumor-stromal interactions in triple-negative breast cancer using a human vascularized micro-tumor model | | | |
| 57 | | Martin Stano | Advanced Microfluidic Platform for In-Vitro Sonodynamic Therapy Testing in Diffuse Midline Glioma Cell Models | | | |
| 58 | 543 | Rajul Bains | Vascularized tumor-on-a-chip to investigate immunosuppression of CAR T-lymphocytes | | | |
| | -67 | C 14511 14 15 | Microphysiological systems for investigating potential anti-angiogenic effects of xenohormetic phytochemicals in the context | | | |
| 59 | 567 | G. Wills Kpeli | of cancer Prostate energific membrane entiree's role in promoting and protecting tumor necessary during by next induced. | | | |
| 60 | 607 | Ngan Phung | Prostate-specific membrane antigen's role in promoting and protecting tumor-neovasculature during hypoxia-induced angiogenesis | | | |
| 61 | | Emily Hutchison | A Microphysiological System to Model Chronic Hepatitis C Virus Infection and Hepatocellular Carcinoma | | | |
| 62 | | HONGYAN YUAN | A Contraction—Reaction—Diffusion Model: Integrating Biomechanics and Biochemistry in Cell Migration | | | |
| 63 | | Simona Campora | Primary breast tumor spheroids as a model for evaluating the impact of collagen matrix on drug penetration | | | |
| 64 | <u> </u> | Lisa F Horowitz | Microscale cancer models based on microdissected tumor "cuboids" that retain a complex tumor microenvironment | | | |
| 65 | 666 | Tran Ngoc Huyen Nguyen | Microfluidic Modulation of Tumor Microvasculature in Micro-dissected Cancer Tissues | | | |
| | | | SESSION: 1.4 MPS for rare diseases | | | |
| | | | A human Bone/Bone-Marrow-on-a-Chip system for preclinical investigation of new therapeutic approaches for Autosomal | | | |
| 66 | 159 | Nina Stelzer | Recessive Osteopetrosis | | | |
| 67 | 213 | Ilka Maschmeyer | Chronic Kidney Disease on-a-chip – a dual-perfused autologous proximal tubule model | | | |
| | | | Establishing a Vascularized and Perfusable in vitro Skin Model Using hiPSC-Derived Organoids for Disease and Infection | | | |
| 68 | | Amelie Reigl | Research | | | |
| 69 | | Jennifer Harder | Modeling podocytopathies using human kidney organoids | | | |
| 70 | | Xiufang Guo | Development of human iPSC-skeletal muscle ALS model for pathogenesis study and therapeutic testing | | | |
| 71 | | Kenneth Hawkins | Human iPSC-CMT2s Motoneuron Model for Characterization and Drug Development | | | |
| 72 | 650 | Jan Lichtenberg | Scalable 3D cell culture-based retinal fibrosis model for efficacy testing | | | |
| 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 | | | |

| TUESDAY, JUNE 11 | | | | | | | |
|---------------------------|---|-------------------------------------|---|--|--|--|--|
| 4:30 PM - 6:00 PM | | | | | | | |
| Poster Board Number | Abstract ID | Presenter | Title | | | | |
| | | | TRACK 1: MPS for (patho)physiology | | | | |
| | SESSION: 1.5 MPS to model pre- and postnatal conditions or reproductive disorders | | | | | | |
| 73 | 4 | Sun Min Kim | Investigating oxygen-stressed placental vessel remodeling on a microfluidic 3D platform | | | | |
| 74 | + | Odysseas Chaliotis | Microphysiological model of the placental barrier to study human Brucella infections and antibiotic treatment during pregnancy | | | | |
| 75 | + | Samantha Holt | Development of an MPS model of innervated human endometriosis and adenomyosis lesions | | | | |
| 76 | + | Linda Griffith | Engineering synthetic hydrogels for a microfluidic model of vascularized endometriosis lesions | | | | |
| 77 | _ | Shuo Xiao | An ex vivo mini-ovary model to study female reproductive biology, medicine, and toxicology | | | | |
| 78 | + | Ana Collins-Smith | Microfluidic Device Successfully Replaces Traditional Models of Pregnancy Associated Drug Pharmacokinetic Studies | | | | |
| 79 | 617 | Mi T. M. Soe | An ex vivo model for investigating the mechanisms of ovarian disorders induced by polycystic ovary syndrome (PCOS) | | | | |
| | SESSION: 1.6 MPS to model neurodevelopment and neurodegeneration | | | | | | |
| 80 | 24 | Mubeen Goolam | Modelling the embryo using stem cells: defining the roles of biochemical and physical cues in driving stem cell self- organisation. | | | | |
| 81 | 80 | Stuart Prime | The multiplatform utility of human iPSC derived neuronal models to provide complex biological systems for drug discovery using Microphysiological systems | | | | |
| 82 | 82 | Yukari Shigemoto-Mogami | Study about the cell composition of blood brain barrier-microphysiological system (BBB-MPS) for reproducing pathological conditions | | | | |
| 83 | | Krysten Jones | A human hiPSC brain fatigue model and in vivo validation of a neuroactive peptide secreting synbiotic | | | | |
| 84 | 108 | Hong Nam Kim | Neurovascular unit model for modeling human brain diseases | | | | |
| 85 | + | Benoît G. C. MAISONNEUVE | Translational brain-on-chip models for Alzheimer's disease drug discovery. | | | | |
| 86 | | Patrick C Hurley | Development of MS-on-a-chip; effects of microfluidic device structure. | | | | |
| 87 | + | Sourabh Sharma | A fetal blood-brain-barrier microphysiological system to study the effect of in-utero toxicant exposure | | | | |
| 88 | | Eric Reed | Impact of Dynamic Oxygen Conditions on a Human Neurovascular Unit-on-a-Chip | | | | |
| 89 | 167 | Emma Drabbe | Higher Throughput Bioreactor for Retinal Organoid Microenvironmental Control | | | | |
| 00 | 160 | M A | The Investigation of Drug-Induced Dementia in an hiPSC-Central Nervous System Assessing Deficits in Long-Term Potentiation | | | | |
| 90 91 | + | Kaveena Autar Florian Larramendy | from Anticholinergic Burden Compartimentalized MEA Pain(s)-on-chip platform | | | | |
| 92 | | Mahdi Ghazal | Next-generation electrophysiology for functional characterization of human neural organoids | | | | |
| 93 | + | Maria Grisales | Development of a Human-Based Cortical Neuron Model for Down Syndrome | | | | |
| 94 | + | Francesca Michela Pramotton | Senescent microphysiological model to investigate vascular and lymphatic dysfunction in neurodegenerative diseases | | | | |
| 95 | | Maren Schenke | Sex hormone supplementation increases physiological relevance of an in vitro model of the developing human brain | | | | |
| | 333 | Widten Schenke | A Functional In Vitro 3D iPSC-Derived Neuromuscular Junction Model for use in Neurotoxin Potency Testing or Preclinical Drug | | | | |
| 96 | | Nicholas Geisse | Development | | | | |
| 97 | 427 | Tatsuya Osaki | Engineering 3D endothelial vascular networks from Rett syndrome patient-derived iPS cells | | | | |
| 98 | 468 | Zhanhe Liu | High Precision and High Throughput Neuronal Circuits Printing for Organ-on-A-Chip Devices | | | | |
| 99 | 499 | Alex Rittenhouse | Addressing the role of maternal inflammation in Autism Spectrum Disorder using immune-competent brain microphysiologic systems | | | | |
| 100 | | Lise Harbom | Modulation of glial differentiation in a 3D iPSC-derived CNS model | | | | |
| 101 | | Gülden Akçay | Femtoprinted Brain-on-Chip to Explore Brain Microenvironment | | | | |
| 102 | 522 | Ikuro Suzuki | A novel field potential imaging method to evaluate systemic neuronal function using a compartmentalized in vitro MPS device | | | | |
| 103 | 539 | Jennifer Lawson | Generation of Human Endothelial Cells for Integration of Pericytes and Regional Specific Astrocytes to Mimic in vitro Blood Brain Barrier Model from Human Induced Pluripotent Stem Cells | | | | |
| 104 | 542 | Alexandra Maertens | Circadian rhythm gene networks in neurobiology and neurodegenerative diseases: comparing in vitro cell lines, organoids, and in vivo data using weighted gene correlation network analysis | | | | |
| 105 | 554 | Itzy E. Morales Pantoja | Enhancing brain organoid size and complexity using 3D printed microfluidics | | | | |
| 106 | 568 | Prashant Hariharan | Choroid plexus-on-a-chip: a microfluidic model to study how cerebrospinal fluid secretion and blood-cerebrospinal fluid barrier function are affected by hydrocephalus-associated inflammation. | | | | |
| 107 | | Vincent Truong | Completing The Circuit: Recreating Sensory Pathways Using Human Keratinocytes, Sensory Neurons, and Dorsal Horn Neurons | | | | |
| 108 | | Spencer Seiler | A feedback-driven IoT microfluidic, electrophysiology, and imaging platform for brain organoid studies | | | | |
| | | | | | | | |
| 109 | + | Emma Warrner | A Novel Microfluidic Chip to Induce Linear Concentration Gradients for Differentiation of Cochlear Cells of Inner Ear Organoids | | | | |
| 110 | 625 | Peter Udall | Development and characterization of human iPSC-derived 3D neurospheres for disease modelling and drug discovery | | | | |
| | | I | SESSION: 1.7 MPS for metabolic and endocrine disorders | | | | |
| 111 | 236 | Giulia Raggi | A novel human 3D peristaltic simulating Gut-on-Chip platform for predictive testing of new barrier-protecting drug candidates | | | | |
| 112 | 323 | Ana Carolina Figueira | ESTEATO-CHIP: A NEW MODEL FOR INVESTIGATING NON-ALCOHOLIC FATTY LIVER DISEASE THROUGH THE INTEGRATION OF 3D CULTURES OF ADIPOCYTES AND HEPATIC CELLS | | | | |

| Poster | | | | | | | |
|--------|--|-----------------------------------|--|--|--|--|--|
| Board | Abstract | | | | | | |
| Number | ID | Presenter | Title | | | | |
| | SESSION: 1.7 MPS for metabolic and endocrine disorders | | | | | | |
| 113 | 364 | Trivia Frazier | ObaCell® Obesity-on-a-Chip, a Platform for Disease Modeling and Drug Development - A GLP1 agonist study | | | | |
| 114 | + | Erin Tevonian | Engineering a vascularized liver spheroid model of hepatic insulin resistance | | | | |
| 115 | 413 | Sakai Yasuyuki | A liver microphysiological system with an open organoid structure for liver disease modeling. | | | | |
| 116 | 634 | Rachelle Baun | Modeling Metabolic Dysfunction-Associated Steatohepatitis in human liver Microphysiogical Systems for clinical prediction of therapeutic efficacy. | | | | |
| 117 | 644 | 114 - 14/2161 - | Mandulation of the intervals the transfer of the intervals of the interval | | | | |
| 117 | | Ute Wölfle | Modulation of the interplay between fatty liver spheroids and psoriasis keratinocytes by liver- protecting herbal remedies Digital pathology with artificial intelligence analysis provides insight to the efficacy of antifibrotic compounds in human 3D | | | | |
| 119 | | Susan Grepper Francisco Conceição | MASH model Unveiling Bone Remodeling Dynamics: exploring osteoblast-osteoclast interactions in an organ-on-chip model via biomimetic bone-remodeling micro-units | | | | |
| 113 | 032 | Transisco conceição | SESSION: 1.8 MPS for immune response and diseases | | | | |
| 120 | 5 | Trinath Jamma | Study the impact of host gut microbiota-derived secondary bile acids on intestinal inflammation | | | | |
| 121 | 18 | Dawn Lin | High-throughput organ-specific micro-vessel model for vascular research | | | | |
| 122 | 22 | Tim Kaden | DSS-induced colitis-on-chip model to study the therapeutic potential of the secondary bile acid lithocholic acidin vitro | | | | |
| 123 | 31 | Kylie Gallagher | Creation of colon epithelium-immune microphysiological systems on porous scaffolds | | | | |
| | | | Recapitulation of the pathophysiology of inflammatory bowel disease using colon organoids differentiated from human | | | | |
| 124 | 43 | Fuki Yokoi | pluripotent stem cells | | | | |
| 125 | 59 | Joel P Joseph | T cell activation in 3D bioprinted hydrogels mimicking biomechanical properties of lymph node microenvironment | | | | |
| 126 | 84 | Moritz Pfeiffenberger | Development of a cartridge bioreactor for parallelized cultivation and stimulation of a complex fracture healing model | | | | |
| 127 | 91 | Huddleston Mary Elizabeth | Evaluation of a Pathogen-Killing Synbiotic in a Human Intestine-on-a-Chip | | | | |
| 128 | 109 | Ryuji Yokokawa | hiPSC-derived human airway and alveolus on-chip models: Decoding dynamic immune responses to SARS-CoV-2 in human lungs | | | | |
| 120 | 110 | Kayanat Amah | Comparative analysis of the calcinous inhibitors syclespering and veclospering an eximany hyman kidney enithelial calls | | | | |
| 129 | | Kayenat Aryeh | Comparative analysis of the calcineurin inhibitors cyclosporine and voclosporin on primary human kidney epithelial cells | | | | |
| 130 | 1 | Kevin Bewley | Adding cellular immune elements into a lung SARS-CoV-2 infection MPS model system | | | | |
| 131 | 143 | Alexandra Damerau | Dual-chambered bioreactor for biomimetic culture of human joint components | | | | |
| 132 | 152 | Naomi Coombes | SARS-CoV-2 infection in upper and lower human respiratory MPS at high containment as a model for pandemic pathogens | | | | |
| 133 | + | Kevin J. Pollard | Microphysiological Peripheral Nerve Invasion by Respiratory Viruses | | | | |
| 134 | 1 | Noo Li Jeon | Inflammatory Gut-on-a-Chip for Testing Live Biotherapeutics Product for Inflammatory Bowel Disease | | | | |
| 135 | + | Jenna Kastenschmidt | Modeling disease and testing therapeutic response using human immune organoids | | | | |
| 136 | + | Sarah Heub | Automated continuous unidirectional perfusion of vascularized 3D in vitro models. | | | | |
| 137 | + | Bhumi Suthar | Engineering a human endothelialized platform for disease modeling | | | | |
| 138 | | Shuai Shao | A microphysiological system reveals neutrophil contact-dependent attenuation of pancreatic tumor progression by CXCR2 inhibition-based immunotherapy | | | | |
| 139 | 254 | Elena Müller | Novel microfluidic staining chip for suspension and adherent cell cultures requiring minimized cellular and reagent resources | | | | |
| 140 | 293 | Crystal Burke | Modeling emerging respiratory virus infection utilizing a lung microphysiological system | | | | |
| 141 | 351 | Hosein Mirazi | Modeling Human Joint Health and Disease: A Four-Cell Co-culture Chip Approach Under Varied Fluid Shear Stress | | | | |
| 142 | 358 | Isabelle Linares | Developing a Human Tendon-on-a-Chip with Vascular Flow to Model Inflammatory Mechanisms in Fibrotic Tendon Pathology | | | | |
| | | | IPS-based pathophysiologically-relevant human liver co-culture microfluidic model for the study of its interactions with | | | | |
| 143 | + | Robin Houssier | parasitic Schistosoma mansoni eggs | | | | |
| 144 | + | Samantha Holt | An in vitro model of the skin microvasculature to investigate host response to borrelia infection | | | | |
| 145 | 398 | Yunhao Zhai | Modeling intramuscular vaccination with mRNA vaccines in a lymphoid follicle organ chip | | | | |
| 146 | 465 | Amind B. Columb | Utilization and Development of in vitroµSiM Platforms to Study Bacterial Invasion of the Osteocyte Lacuno-Canalicular | | | | |
| 146 | | Arvind R. Srivatsava | Network | | | | |
| 147 | 1 | Vidhya Vijayakumar | A multi-strain human skin microbiome model provides a testbed for disease modeling | | | | |
| 148 | 516 | Evan Cirves | 3D In Vitro Modeling of Extramedullary Granulopoiesis in Wound Healing | | | | |
| 149 | 529 | James N. Wilking | Stomach-on-chip co-culture model reveals increased recruitment of dendritic cells to the gastric epithelium upon H. pylori-induced apoptosis | | | | |
| 150 | 597 | Marla Dubau | iPSC-derived immunocompetent skin models as an alternative method for the in vitro identification of skin-sensitizing foreign substances | | | | |
| 151 | 612 | Hediye Cinar | Establishment of Microphysiological Jejunum Platform in Emulate Organ-Chip System to be Used in Cultivation of Viruses and Parasites Development of a simultaneous evaluation system for anticancer drug sensitivity and side effects using microphysiological | | | | |
| 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 Establishment of an anti-capper drug consitivity assessment system using microphysiological systems and foliop breast capser. | | | | |
| 363 | 445 | Honoka Hashizume | Establishment of an anti-cancer drug sensitivity assessment system using microphysiological systems and feline breast cancer organoids | | | | |