

## Posters

- P-01 Aiming for the AI-powered Evolution of the Human Brain: A Computational Approach to Evolving Human Cortical Organoids**  
Hirotu Akuta (Hiroshima University, Japan)
- P-02 Generation of natural and synthetic hypo-immunogenic human iPS cells**  
Jonathan Arias (VU EMBL partnership institute for gene editing technologies, Lithuania)
- P-03 Large scale production of hiPSC derived Hepatocytes for Cell Based Therapy**  
Fabian Bachinger (Max Planck Institute for Molecular Genetics, Germany)
- P-04 Perfusable vasculature-on-chip models reproduce the pathology of Sturge-Weber syndrome**  
Kimihiro Banno (Nara Medical University, Japan)
- P-05 Construction of an Advanced Inducible Differentiation Culture Platform for Mouse Gastric Organoids**  
Sumimasa Arimura (Baylor College of Medicine, USA)
- P-06 Modelling human development using pancreatic organoid**  
(S6-3) Jonathan Brassard (CuSTOM - Cincinnati Children's Hospital, USA)
- P-07 Clarification Of the Role Of Plasticity Factors In Human Liver Regeneration**  
Marta Cagna (Berlin Institute of Health at Charité , Germany)
- P-08 Dissecting human fetal heart regeneration using cardioids**  
Lavinia Ceci Ginistrelli (IMBA - Institute of Molecular Biotechnology, Austria)
- P-09 Organoid In Vitro Culture in Corning® Matrigel® Matrix with AI Quantification**  
Yi-Chieh Chan (Corning Research Center Taiwan (CRCT), Taiwan)
- P-10 Exploring Chemotherapy Resistance in Pancreatic Cancer: Insights from a 3D Organoid Model**  
Heewon Choi (Yonsei University Health System, Republic of Korea)
- P-11 AI-Driven Predictive Modeling of Stochastic Cellular Decision-Making in Multi-Lineage Organoid Differentiation: A Quantum-Inspired Neural Solver for Precision Regenerative Medicine**  
Rifaldy Fajar (The Integrated Mathematical, Computational, and Data Science for BioMedicine Research Community Foundation, Indonesia)

## Posters

- P-12 On-chip vascular bed simulation with experiment-based parameter optimization**  
Kazuya Fujimoto (Kyoto University, Japan)
- P-13 Generation of bladder organoids from adult mouse urothelium**  
Mizuki Fukuda (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-14 Screening of active ingredients for A $\beta$  oligomer disruption: Fucoxanthin restores ER stress in cerebral organoids**  
Kazumi Hirano (National Institute of Advanced Industrial Science and Technology, AIST, Japan)
- P-15 Deconstruct to Reconstruct: Cellular Deconvolution and Multi-Lineage Reconstitution of Human Colonic Organoids**  
Christopher Hofmann (Cincinnati Children's Hospital, Germany)
- P-16 Microfluidics for 3D Cell Spheroids Culture**  
Chia-Hsien Hsu (National Health Research Institutes, Taiwan)
- P-17 Long noncoding RNA *OIN1* facilitates hypoxic response in patient-derived three-dimensional cultures of ovarian cancer**  
Kazuhiro Ikeda (Saitama Medical University, Japan)
- P-18 Breathing Organoids: Establishing a Pulmonary Aciniform Organoid-on-a-Chip Model for Lung Expansion and Fibrosis**  
Satoshi Ikeo (The University of Tokyo, Japan)
- P-19 Development of a multi-chamber cardioid model to investigate genetic and environmental causes of congenital heart defects**  
Tobias Ilmer (IMBA - Institute of Molecular Biotechnology, Austria)
- P-20 Tonicity matures the collecting ducts of the kidney**  
Daisuke Inoue (Kumamoto University, Institute of Molecular Embryology and Genetics, Japan)
- P-21 Investigating the effect of YAP activity and nuclear deformation on the phenotype of vascular smooth muscle cells cultured on convex surface**  
Yuga Isobe (Keio University / RIKEN Center for Biosystems Dynamics Research, Japan)
- P-22 Organoid system for trachea/esophagus development modeling**  
Keishi Kishimoto (RIKEN Center for Biosystems Dynamics Research, Japan)

## Posters

- P-23 Microfluidic culture of kidney organoids embedded in fibrin gel promotes microvasculature network formation via VEGF signaling**  
Wei Lun Darryl Koh (Kyoto University, Japan)
- P-24 Targeting mis-localized cytoplasmic long non-coding RNA NEAT1 eliminates aggregation-prone TDP-43 condensate and preserve neuron-muscle function in human ALS neuromuscular organoids**  
Hung-Chih Kuo (Academia Sinica, Taiwan)
- P-25 Syrian hamster pluripotent stem cells for kidney organoid induction**  
Dat Dien Le (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-26 Xeno-Free Long-Term Expansion of hPSCs on Functional Polymer Films**  
Hana Lee (KRIBB for Stem Cell Convergence Research, Republic of Korea)
- P-27 Acquired epithelial WNT secretion drives niche independence of developing gastric cancer**  
Heetak Lee (IBS Center for genome engineering, Republic of Korea)
- P-28 Proximal tubule-on-chip derived from iPSC kidney organoids for improved drug transporter characterization**  
Cheng Ma (Kyoto University, Japan)
- P-29 Basement membrane components construct tissue environment to maintain hair follicle niche fibroblasts as mesenchymal aggregates**  
Hiroki Machida (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-30 Reproducing the Responses of Kidney Organoids to Cellular Stresses to Establish *in vitro* Renal Disease Models**  
Yukari Usuda (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-31 Functional analysis of asynchronous Hes1 oscillations in the neural tube formation (S1-4)**  
Yuki Maeda (RIKEN Center for Brain Science, Japan)
- P-32 Large-scale production of uniform-sized miniature adipocyte spheroids in hydrogel capsules**  
Ruri Maekawa (The University of Tokyo, Japan)

## Posters

- P-33 Dynamic cell proliferation control coupled with intestinal stem cell differentiation**  
Shuji Matsuguchi (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-34 MEK/ERK signaling controls lineage-specific H3K9me3 landscape during human mesoderm and endoderm differentiation**  
Satoshi Matsui (Osaka University, Japan)
- P-35 Synthetic Peptide Growth Factors for Organoid Research: Applications of Noggin-Like and Wnt3a Alternative Peptides**  
Kosuke Minamihata (PeptiGrowth, Japan)
- P-36 Developing pacemaker-like cardioids to decipher pacemaker dominance of fetal heartbeats**  
Amra Mujadzic (IMBA - Institute of Molecular Biotechnology, Austria)
- P-37 Development of a cardiotoxicity evaluation system using a Heart-on-a-Chip Microdevice with aligned fiber device**  
Kozue Murata (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-38 Generation of ureter-like tissue from human ES cells *in vitro***  
Yu Nakanishi (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-39 Developing gradient culture system for spatial control of extracellular matrix *in vitro***  
Yen Ngo Xuan (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-40 Niche-Specific Regulation of MET Events within Kidney Organoids**  
Rio Noto (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-41 Disease modeling using Alzheimer's disease patient derived brain organoid**  
GwangHyun Park (Gradient bioconvergence, Republic of Korea)
- P-42 AI-Driven Predictive Modeling of Emergent Vasculature Formation in Multi-Organoid Systems: A Deep Reinforcement Learning Approach for Computational Tissue Engineering**  
Prihantini Prihantini (The Integrated Mathematical, Computational, and Data Science for BioMedicine Research Community Foundation, Indonesia)

## Posters

- P-43 Patient-derived iPSC cerebral organoids as a model for cognitive phenotypes of Duchenne muscular dystrophy**  
Chaitra Sathyaprakash (National Center of Neurology and Psychiatry, Japan)
- P-44 Investigating the mechanisms by which SMAD6 mutations cause tracheoesophageal birth defects**  
(S5-3) Vivien Sauer (Cincinnati Children's Hospital Medical Center, USA)
- P-45 Self-organization of embryonic stem cells into a reproducible embryo model through epigenome editing**  
Ali Shariati (University of California, Santa Cruz, USA)
- P-46 Light-induced spatial ciliary signaling regulates the dorsal/ventral regionalization of human brain organoids**  
(S9-2) Issei S Shimada (Nagoya City University, Japan)
- P-47 Comparison of patient tissue- to pluripotent stem cell-derived epithelial organoids**  
Noah Shroyer (Cincinnati Children's Hospital, USA)
- P-48 Personalized iPSC-derived organoids for human Paneth cell modeling**  
Monica Silveira Wagner (Cedars-Sinai Medical Center, USA)
- P-49 Tubular Structure Formation of Bovine Uterine Glands under 3D *In Vitro* Culture Systems**  
Yosuke Sugino (Okayama University, Japan)
- P-50 Single-cell CRISPR-activation screen identifies hepatic maturation regulators with zonal resolution**  
Atsuhiko Taguchi (Chiba University Graduate School of Medicine, Japan)
- P-51 Establishment of a hiPSC-derived liver-on-a-chip for personalized drug metabolism studies**  
(S2-3) Isabel Tamargo-Rubio (University Medical Center Groningen, The Netherlands)
- P-52 Generation of Wolffian duct-like tissues from human pluripotent stem cells**  
Junichi Taniguchi (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-53 Generation of a human pancreatic cancer organoid recapitulating tumor microenvironment by incorporating human iPSC-derived stroma cells**  
Naoki Tanimizu (The University of Tokyo, Japan)

## Posters

- P-54 Elastoplastic transition: A Key Mechanism for Irreversible Epithelial Folding**  
Aki Teranishi (Kanazawa University, Japan)
- P-55 Emergent Tissue Morphogenesis in Limb Development: A Synergy of 2.5D, 3D**  
(S8-3) **Cultures and Mathematical Modeling**  
Rio Tsutsumi (Kyoto University, Japan)
- P-56 Canonical WNT signaling is the major factor of prostate progenitor differentiation in embryonic prostate development**  
Wataru Uno (RIKEN Center for Biosystems Dynamics Research, Japan)
- P-57 Spatiotemporal Tunable Artificial Microenvironment for Next-Generation Organoids: Recapitulating Primitive Streak Formation and Notogenesis**  
Zhe Wang (Kyoto University, Japan)
- P-58 Human recombinant full-length laminin-111 and their use in cell culture**  
Shinomi Yagi (Nippi Research Institute of Biomatrix, Japan)
- P-59 Development of Brain-Gut Assembloids to Recapitulate Inter-Organ Propagation of Parkinson's Disease Pathology**  
Akihiro Yamaguchi (Juntendo University, Japan)
- P-60 A single-cell transcriptome approach revealed the function of BMP4 for mesoderm lineage-specification in time-dependent manner**  
Wei Zhao (RIKEN Center for Biosystems Dynamics Research, Japan)