Posters

EMBL · IBEC Conference

ENGINEERING MULTICELLULAR SYSTEMS

Posters

N	Name	Affiliation	Title
1	Aina Abad	Institute for Bioengineering of Catalonia (IBEC)	Engineering a 3D small intestine mucosa model by light-based bioprinting
2	Jordi Alcaraz	Institute for Bioengineering of Catalonia (IBEC)	SMAD3 in tumor associated fibroblasts promotes early cancer cell invasion in lung adenocarcinoma consistent with clinical observations
3	Feyza Nur Arslan	IST Austria	Regulation of E-cadherin-mediated contacts via cortical F-actin flows
4	Thomas Bessy	INSERM	Engineering the bone marrow niche at different scales
5	Vladyslav Bondarenko	European Molecular Biology Laboratory, Heidelberg, Germany	Ex Vivo Engineering Uterine Environment For Peri-Implantation Mouse Development
6	Louise Breideband	Goethe University Frankfurt	Democratizing stereolithography 3D bioprinting: modeling the liver cancer microenvironment using a commercially available 3D printer
7	Marta Cherubini	EMBL Barcelona	Study of flow impact on the formation of fetal placental vascular network on-chip
8	Giovannni Dalmasso	EMBL Barcelona	The interplay between SOX9 and endothelial cells in vasculature formation
9	Simone de Jong	Eindhoven University of Technology	Supramolecular hydrogels for hiPSC culture and differentiation towards kidney organoids

10	Bregje de Wildt	Eindhoven University of Technology	Towards an *In Vitro* Platform to Evaluate Material-driven Human Bone Regeneration
11	Julia Di Stefano	University of Antwerp	Murine microglia-containing brain organoids as a tool to study CNS inflammatory and degenerative processes
12	Shlomit Edri	Technion – Israel Institute of Technology	Organoid culture and 3D bioprinting of pluripotent stem cell-derived pancreatic progenitors
13	Manuel Alejandro Fernandez Rojo	IMDEA Food Institute	Diet during tissue regeneration and engineering
14	Juan M. Fernández-Costa	Institute for Bioengineering of Catalonia (IBEC)	A multi-organ-on-a-chip device to study the metabolic crosstalk between muscle and pancreatic islets
15	Ainhoa Ferret Miñana	Institute for Bioengineering of Catalonia (IBEC)	Fatty Hepatocytes Induce Skeletal Muscle Atrophy *In Vitro*: A New 3D Platform To Study The Protective Effect Of Albumin In Non-Alcoholic Fatty Liver Disease
16	Giulia Fornabaio	Institute for Bioengineering of Catalonia (IBEC)	Biomechanics of the progression of hypermethylated colorectal carcinomas
17	Victor Fournie	LAAS, Toulouse, France	Opto-Fluidic 3D printing platform for micro-environment and tissue engineering
18	Judith Fuentes Llanos	Institute for Bioengineering of Catalonia (IBEC)	3D-bioprinting for Biomimetic Multifiber Skeletal Muscle-based Bioactuators
19	Maria Gallo	Institute for Bioengineering of Catalonia (IBEC)	Generation of reporter human pluripotent stem cell lines to study cardiac and renal development and disease
20	Maria Guix	Institute for Bioengineering of Catalonia (IBEC)	Motion performance and shape-shifting of 3D bioengineered living robots
21	Levin Hafa	Goethe University Frankfurt am Main	Bioprinting by light sheet lithography: engineering complex tissues with high resolution at high speed
22	Øyvind Halaas	NTNU, H Norwegian University of Science and Technology	Engineering an Immune Niche for T Cells

24	Ignasi Jorba	Eindhoven University of Technology (TU/e)	Methacrylated recombinant collagen peptide as human collagen mimicking 3D hydrogel model for cardiac tissue engineering
25	Cansu Karakaya	Eindhoven University of Technology	Mechanosensitive Notch signaling regulates strain-mediated phenotypic changes in vascular smooth muscle cells
26	Jiřina Kroupová	Department of Chemical Engineering, University of Chemistry and Technology, Prague,	3D Cell Cultures Revealed Different Efficacy of Two Anticancer Agents with Comparable Cytotoxicity in 2D Cell Cultures
27	Amanzhol Kurmashev	Tampere University	Microfluidic platform for continuous perfusion of transwell-based barrier models
28	Sophie Kurzbach	Technical University of Munich (TUM), Munich	A high-throughput approach for the application of FRET-based tension sensors to pancreas-derived organoids
29	Jimpi Langthasa	Indian Institue of Science	Switch in extracellular matrix dynamics mediates morphodynamical luminal transition in malignant ovarian spheroids
30	Enara Larrañaga	Institute for Bioengineering of Catalonia (IBEC)	Long-range organization of intestinal 2D-crypts using micropatterning
31	Alejandro Llorente	Institute for Bioengineering of Catalonia (IBEC)	SMAD3 in tumor associated fibroblasts drives enhanced fibroblast accumulation in lung adenocarcinoma through increased migration
32	Etienne Loiseau	Aix Marseille Univ, CNRS, CINaM, Marseille, France	Active mucus-cilia hydrodynamic coupling drives self-organization of human bronchial epithelium
33	Rory Long	EMBL Barcelona	Exploring the role of hypoxia and Plasmodium falciparum pathogenesis in a 3D brain microvascular model
34	Jean-Baptiste Lopez	Institut Gustave Roussy	Biomechanics of the progression of hypermethylated colorectal carcinomas
35	Guillermo Martínez Ara	EMBL Barcelona	Altering Organoid Shape Through Optogenetic Control Of Apical Constriction
36	Georgios Misailidis	Friedrich Miescher Institute for Biomedical Research	Mechanistic insights on the regulation of the period gradient in the PSM

37	Dylan Mostert	University of Technology Eindhoven	Three dimensional mechanical constraint model to understand remodeling in beating cardiac microtissues
38	Markus Mukenhirn	Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany	Role of tight junctions on lumen size and shape in MDCK cysts
39	Jose J. Munoz	Universitat Politècnica de Catalunya	Cytoskeletal reconstruction from Traction Force Microscopy
40	Iftach Nachman	Tel Aviv University	Divergence and Convergence of Morphogenetic Paths in Embryo-like Models
41	Zarina Nauryzgaliyeva	Institute for Bioengineering of Catalonia (IBEC)	Dissecting early nephron patterning in kidney organoids derived from hPSCs
42	Clara Nuninger	Friedrich Miescher Institute for Biomedical Research	Tissue scaling during development and regeneration
43	Steven Ongenae	MeBioS, KU Leuven, Belgium	Dynamics of tissue spheroid fusion: perspectives from the individual cell
44	David Oriola	EMBL Barcelona	Arrested coalescence as a method to explore the mechanics of 3D multicellular aggregates
45	Melika Parchehbaf Kashani	Institute for bioengineering of Catalonia (IBEC)	Bioprinted hydrogel-based microfluidic chip to mimic the tumor metastatic microenvironment
46	Inês Pereira	Institute for bioengineering of Catalonia (IBEC)	Towards a 3D Brain-on-a-chip for Organotypic Culture and Differentiation of Neuroprogenitor Cells
47	Livia Piatti	European Molecular Biology Laboratory	Recreating the blood-brain barrier complexity *in vitro*: a three-dimensional microvascular model to investigate cerebral malaria
48	Aref Saberi	Eindhoven university of Technology	In-vitro Engineered Human Cerebral Tissues Mimic Pathological Circuit Disturbances In 3D
49	Kabilan Sakthivel	Lund University	Deciphering the Effect of Mechanical Signals in Tumorigenesis with a Dynamically Tunable 3D Mammary Epithelial Microenvironment

51	Yvenn Sermeus	Mebios, KU Leuven	Identification of mechanical cues during early limb bud development using individual cell based modeling
52	Pawel Sikorski	Norwegian University of Science and Technology, Dept of Physics	Model System to Study Bone Mineralization in 3D
53	Josephine Solowiej-Wedderburn	University of Surrey	Pulling on Springs: Exploring Feedback Mechanisms In Cellular Mechanosensation
54	Charisios Tsiairis	Friedrich Miescher Institute for Biomedical Research	Cellular Synchronization through Unidirectional and Phase-Gated Signaling
55	Elise Van Breedaml	Laboratory of Experimental Hematology, University of Antwerp	Luminescent Human iPSC-derived Neurospheroids Enable Modelling of Neurotoxicity after Oxygen-glucose deprivation
56	Cas van der Putten	Eindhoven University of Technology	Understanding cell adhesion on the microscale, from contact guidance to substrate curvature
57	Jef Vangheel	KU Leuven	Epithelial dynamics and rheological properties in the framework of the jamming phase transition
58	Daniel Vera	Institute for bioengineering of Catalonia (IBEC)	Bioprinted hydrogel-based gut-on-chip model
59	Michelle Vis	Eindhoven University of Technology	Towards bone-remodeling-on-a-chip
60	Byung Ho Lee	Max Planck Institute of Molecular Cell Biology and Genetics. Dresden, Germany	The interplay between lumen and tissue branching in pancreas morphogenesis