



3rd edition EMBL-IBEC Conference

ENGINEERING MULTICELLULAR SYSTEMS

Flash presentation (3 minutes)

24/04/2024				
ORDER	NAME	SURNAME	INSTITUTION	TITLE
1	Dirk	Benzinger	The Francis Crick Institute	Optogenetic engineering of morphogen gradients recapitulates dynamic neural tube patterning
2	Ibrahim Halilullah	Erbay	University of Galway/ IBEC	Integrated Computational-Experimental Analysis of Shear Impact on Intestinal Crypt Dynamics and Mucus Mechanics
3	Laura	Faure	Institute for bioengineering of Catalonia (IBEC)	3D micropatterned traction force microscopy : a new technique reveals that single epithelial cells can exert pushing forces on their environment
4	Levin	Hafa	BMLS - Uni Frankfurt	Laser patterning bioprinting using a light sheet-based system equipped with light sheet imaging produces long-term viable full-thickness skin constructs
5	Soraya	Hernández	University of Zaragoza	Engineering of a simplified 3D microfluidic in vitro model for tumour-stroma dynamics of pancreatic ductal adenocarcinoma microenvironment
6	Viola	Introini	EMBL Barcelona	Effect of febrile temperatures on cerebral malaria in a 3D in vitro microvascular model



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ORDER	NAME	SURNAME	INSTITUTION	TITLE
1	Marina	Marchenko	Physics of Life TU Dresden / EMBL Barcelona	Influence of apical constriction on tissue morphology and cell fate in brain organoids
2	Matthias	Merkel	Turing Center for Living Systems, Center for Theoretical Physics, CNRS, Aix-Marseille University	Robustness of oriented tissue deformation
3	Marion	Raich	Technical University of Munich (TUM), Department of Bioscience	Multi-cellular rosette formation guides cellular rearrangement initiating lumen opening in PDAC organoids
4	Sebastien	Sart	Institut Pasteur	Microfluidic Droplets for Mapping and Regulating Self-Organization of Organoids
5	Bart	Smeets	KU Leuven	Active foam behavior of tissue coalescence in biofabrication
6	Meenakshi	Suku	Ms	Engineering innate immunology in a humanized, functional, in vitro model of healthy myocardium
7	Virgile	Viasnoff	CNRS	Bioengineering Intrahepatic bile duct tubulogenesis from hiPSC using ligand-bound colloidal scaffolds