

12th IBEC Symposium
Bioengineering
Active Ageing

CELL ENGINEERING - Posters with flash presentation

Poster Name	Title
58 Cynthia Hajal	The role of pericytes and astrocytes in tumor cell extravasation across the blood-brain barrier
59 Arnau Hervera Abad	PP4-dependent HDAC3 dephosphorylation discriminates between axonal regeneration and regenerative failure
60 Carmen Hurtado del Pozo	Modelling the metabolic reprogramming of Diabetic Nephropathy using hESC-derived 3D kidney organoids
61 Rafael Mestre	3D bioprinting as a tool for the fabrication of biological actuators based on skeletal muscle tissue
62 Gerard Rubí Sans	Cell-derived matrices as a platform for 3D in vitro colorectal cancer model
63 Anna Vila	Hydrogel co-networks of gelatin methacrylated and poly(ethylene glycol) diacrylate sustain 3D functional in vitro models of intestinal mucosa

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Poster	Name	Title
64	Barbara Blanco Fernandez	Cell tumor-derived extracellular matrix for 3D culture
65	Jordi Comelles	Microfabrication of poly(acrylamide) hydrogels with independently controlled topography and stiffness
66	Vanesa Fernández Majada	Role of Intestinal Epithelial Myofibroblasts during Epithelial Migration
67	Juan M. Fernández-Costa	Generation of human 3D skeletal muscle through bioengineering for preclinical research in Myotonic Dystrophy
68	Albert Garcia	Towards in vitro 3D skeletal muscle models for studying LMNA-associated congenital muscular dystrophy
69	María García	Engineering a 3D biomimetic model of the intestinal inflammatory disease
70	Andrea García Lizarribar	Mature Differentiation of 3D Bioprinted Skeletal Muscle Tissue Using Electric Pulse Stimulation Training
71	Elena Garreta	Differentiation of Human Pluripotent Stem Cells into Ureteric Bud-like Cells and Assessment of their Renal Potential by the Use of ex vivo Kidney Reconstruction Assays
72	Elena Garreta	Substrate Stiffness Impacts the Differentiation of Kidney Organoids Derived from Human Pluripotent Stem Cells.
73	Elena Garreta	Efficient Generation of Human Pluripotent Stem Cell-derived Kidney Constructs by 3D Bioprinting of cell-laden Kidney Specific Bioinks.
74	María Guix Noguera	3D bioprinting technology for advanced functional living robots
75	Laia Lidón Gil	Cellular prion protein transcriptional regulation by tau in Alzheimer's disease
76	Adrián López Canosa	Design of a Microphysiological System to Model Anisotropic Cardiac Tissue

77	Andrés Marco	An iCRISPRa platform for targeted gene activation in Human Embryonic Stem Cells (hESCs).
78	Esther Marhuenda Segarra	Effects of Sustained and Intermittent Hypoxia on Human Lung Cancer Cells
79	Francina Mesquida Veny	Activity-based proregenerative neuronal reprogramming after spinal cord injury
80	Blanca Molins	Modelling diabetic retinopathy with a blood-retinal-barrier in vitro system combining human pluripotent stem cells and decellularized retinal tissue
81	Jesús Ordoño	Lactate-induced cardiac tissue regeneration
82	Jorge Otero	3D Bioprinted lung ECM hydrogels for mesenchymal stem cell culture
83	Alejandro Prieto	Regulated expression of the H-NS paralogue H-NS2 is critical for Escherichia coli O42 fitness
84	Alejandro Prieto	Role of 3'UTR sequences in the expression of the E. coli strain O42 virulence regulator AggR
85	Sergi Rey Viñolas	Development of 3D Printing Personalized Bioactive Implants for Bone Regeneration
86	Lucia Selfa Aspiroz	Studying Wilms' Tumor 1 (WT1) function in human kidney development and disease using human pluripotent stem cells-derived organoids and genome editing
87	Ferran Velasco Mallorquí	Cellulose-based cryogels for long-term culture of pancreatic islets and skeletal muscle tissue
88	Lei WANG	Proteinosome based soft motors towards the mimicry of cellular behaviors
89	Celia Ximenes Carballo	PLA/CaP composite scaffolds: a 3D printed approach to trigger angiogenesis in bone regeneration
90	Augusto Zuluaga	Evaluation of silk fibroin hydrogels from Colombian hybrid silkworm cocoons for hyaline cartilage regeneration