

16th IBEC SYMPOSIUM

BIOENGINEERING

FOR FUTURE AND PRECISION MEDICINE

SESSION 2

29	Marc Molina Jordán	Study of the role of substrate stiffness and force transmission to the nucleus in nucleocytoplasmic transport, nuclear pore conformation, genome organization and gene expression	2	1
30	Zarina Nauryzgaliyeva	Dissecting early nephron patterning and segmentation in kidney organoids derived from hPSCs	2	1
31	Alice Perucca	Micro Immune Response On-chip (MIRO): a model of tumour-stroma interface for immunotherapy testing	2	1
63	María Jose Lopez Martínez	Kill&Repel Coatings: The Marriage of Antifouling and Bactericidal Properties to Mitigate and Treat Wound Infections	2	2
64	Ángela Martínez Mateos	Novel insights into the regulation of the nrdAB class Ia ribonucleotide reductase from <i>Pseudomonas aeruginosa</i>	2	2
65	Victor Mejías Pérez	MR1 protein: the gateway to target Tuberculosis infection	2	2
48	Victor Campo Pérez	Role of microbiota on immunotherapy outcome in a murine model of non-muscle invasive bladder cancer	2	3
49	Victor Campo Pérez	An easy, high-throughput microtiter plate screening assay to quantify and differentiate species in dual-species biofilms	2	3
50	Palash Chandravanshi	Harnessing Regenerative Potential for Spinal Cord Injury Treatment with Age-Specific Decellularized Extracellular Matrix Bioinks	2	3
12	Pablo Scodeller	Verteporfin-based Peptide-Drug conjugate modulates tumor macrophages eliciting therapeutic effect	2	4
13	Ainoa Tejedera Villafranca	Mimicking Sarcolemmal Damage in vitro: A Contractile 3D Model of Skeletal Muscle for Drug Testing in Duchenne Muscular Dystrophy	2	4
14	Anna Vilche	Creating a Brain Culture System: Microphysiology and Hydrogel Integration	2	4
51	Shuqin Chen	Swarming Behavior of Enzymatic Nanomotors: Experiments and Simulations	2	5
52	Claudia Codano	Design of phenotypic anti-inflammatory nanomedicines	2	5
53	David Esporrín Ubieto	Nanogel-based nanomotors navigating in viscous media	2	5
54	Juan Fraire	Effect of swarming on the delivery efficiency of pDNA-loaded layer-by-layer PLGA nanomotors	2	6
55	Juan Fraire	Magnetic navigation of swarms of enzyme-powered nanomotors with photothermal properties for immunogenic cell death	2	6
56	Subhadip Ghosh	Single-Molecule Analysis of Protein Corona Formation on Polymeric Assemblies	2	6
57	Daniel Gonzalez Carter	Generating Artificial Targets to Deliver Therapies Specifically to the Brain	2	7
58	Christopher James	Biomaterial Incorporated Human Mesenchymal Stem Cell Secretome For Cardiac Regeneration	2	7

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59	Antonio Juárez Giménez	Targeting plasmid-encoded proteins that contain immunoglobulin-like domains to combat antimicrobial resistance.	2	7
60	Nina Kostina	New concepts for synthetic cell membranes as a platform to interact with biology	2	8
61	Fichna Kristin	Enzyme-powered nanomotors for enhanced drug delivery	2	8
62	Cátia Lopes	Beyond the closed doors: unlocking novel therapeutic opportunities in Alzheimer's Disease	2	8
