

16th IBEC SYMPOSIUM

BIOENGINEERING

FOR FUTURE AND PRECISION MEDICINE

SESSION 3

9	Sheeza Mughal	Decoding Chronic Fatigue Syndrome and Long-Covid-19 - Mitochondrial Pathology in serum exposed 3-D in vitro Skeletal Muscle Tissues	3	1
10	Adria Noguera Monteagudo	Development of a microfluidic system for the study of the angiogenic response in an extracellular matrix	3	1
81	Claudia Camarero -Hoyos		3	1
15	Renato Eduardo Kevyn Yanac Huertas	A microfluidic platform as a physiologically relevant myocardium model for cardiovascular diseases	3	2
16	Karolina Zimkowska	Project Outline: 3D Brain Organoid Tauopathy Model	3	2
35	Tom White	Characterisation of Extracellular Matrix Models of Collagen VI-Related Congenital Muscular Dystrophies at the Nanoscale	3	2
66	Ruben Millan-Solsona	Probing the electrical properties of isolated fibers from cable bacteria without contacting them by scanning dielectric microscopy	3	3
67	Jose Muñoz López	Design and characterization of bifunctional hydrophilic Janus micelles as novel nanodrugs.	3	3
68	Anna Panteleeva	Neurofilament light biosensor in a brain-on-a-chip for neuronal activity monitoring	3	3
32	Leone Rossetti	Optogenetic generation of leader cells reveals a force-velocity relation for collective cell migration	3	4
33	Ignacio Viciano	Development of small molecules inhibitors of mechanotransduction as potential pancreatic cancer therapy	3	4
34	Srivatsava Viswanadha	Characterizing the role of mechanotransduction in mouse embryonic stem cells	3	4
69	Marina Placci	Transcytosis of anti ICAM-1 NPs in a transwell-model of the lung endothelium	3	5
70	Carles Prado	Designing Enzymatically-Powered PLGA Nanobots and Exploring its Swarming Behavior for Skin Applications	3	5
71	Lucia Roman	Nanotechnological Approaches against Leishmaniasis: Aerosol Therapy with Pentamidine-loaded Liposomes	3	5
72	Alessandro Ronzoni	Live Cell Imaging Of LRP1 Trafficking	3	6
73	Noelia Ruiz-González	Swarms of enzyme-powered nanomotors enhance the diffusion of macromolecules in viscous media	3	6
74	Tiziana Russo	Super predatory ionically-linked comb polymers for engulfment of micro and nanoparticles	3	6
75	Daniel Sánchez de Alcázar Melendo	Chopping off urease into two: trimers as active matter for nanomotors	3	7
76	Ramona Santini	Drug Loading Strategies For Discotic Amphiphile Supramolecular Polymers In Water	3	7

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77	Shubham Tanwar	Nanoscale Multimodal Characterization of Operating Electrolyte-Gated Transistors	3	7
78	Maria Jose Ugarte	Development of a Label-Free Plasmonic Biosensor for Accurate Diagnosis of Myasthenia Gravis	3	8
79	Akhil Venugopal	Dynamic Lipid Vesicles: Next-Generation Drug Delivery Systems	3	8
80	Zhendong Xie	Integrating phenotypic targeting in physiologically-based pharmacokinetics modeling	3	8