

17th IBEC SYMPOSIUM

BIOENGINEERING FOR EMERGENT AND ADVANCED THERAPIES

October 21st and 22nd · Citilab and Auditori AXA, Barcelona



	Name	Surname	Title
Session 1	Gaia	Amato	Developing Human Organoids To Model Genetic And Systemic Conditions During Congenital Anomalies Of The Kidney And Urinary Tract
	Chiara	Ninfali	Duchenne Muscular Dystrophy fibro-adipogenic progenitors impair muscle function of co-cultured healthy myotubes in a functional 3D model
	Karolina	Zimkowska	Monitoring Neuronal Activity in Human Cortical Organoids with Frontotemporal Lobar Degeneration-Tau (FTLD-Tau)
	Ainhoa	Ferret Miñana	3D bioengineered liver for the study of acute and chronic hepatic damage
	Mamatha	Nijaguna	Inhibiting mechanotransduction as a novel approach for oncology therapy
	Pau	Guillamat	Guidance of cellular nematics into self-shaping active surfaces
	Annalisa	Calò	Mechanical phenotyping of lung cancer CAFs
	Clément	Hallopeau	Mechanisms of mechanical compartmentalisation in intestinal organoids
	Guillermo	Martínez Ara	An optogenetic toolset to understand and control epithelial mechanical balance
	Miguel	González Martín	Designing mechanosensible molecules for the mechanical control of cellular transcription.

Session 2	Nina	Kostina	Harnessing nature's blueprints to design interactive synthetic cells
	Gergo	Matajsz	RF Surface Coil Design for High-Throughput Metabolic Imaging using Microfluidics
	Yolanda	Castillo Escario	Measuring High-Resolution Sleep Position and its Variability in Adolescents with Smartphone Accelerometers
	Shuqin	Chen	Convective Dynamics of Swarming Enzymatic Nanomotors
	Núria	Blanco-Cabra	Novel Fluidic System With Controlled Share Stress For Personalized Diagnostic In Biofilm-Related Infections
	Luisa	Camerin	Photoswitchable Carbamazepine Analogs for Non-Invasive Neuroinhibition In Vivo
	Marta	Badia	A comprehensive landscape of IAPP amyloid aggregation
	Cátia	D. F. Lopes	Precision nanomedicine-enabled CRISPR-powered gene therapy for efficient amyloid- β clearance across the blood-brain barrier
	Antonino Nicolò	Fallica	Development of YAT2150 analogues as potent multistage antiplasmodial agents
	Claudia	Codano	A fumarate-based nanomedicine for macrophages' phenotypic modulation