



## Programme: IBEC – ICMS Joint Symposium – 16<sup>th</sup> July

09:00 – 09:20	Registration
09:20 – 09:40	Introductory words <b>IBEC Director</b> <b>ICMS Director</b>
09:45 – 10:00	Transport across the blood-brain barrier and treatment of neurodegenerative diseases <b>Silvia Muro</b> · Institute for Bioengineering of Catalonia (IBEC)
10:00 – 10:15	Light regulated drugs: basic research tools and therapeutic applications <b>Pau Gorostiza</b> · Institute for Bioengineering of Catalonia (IBEC)
10:15 – 10:30	From self-powered nanoparticles to externally controlled 3D Bioprinted Actuators <b>Samuel Sánchez</b> · Institute for Bioengineering of Catalonia (IBEC)
10:30 – 11:00	Artificial cells and organelles; smart compartments with life-like features <b>Jan van Hest</b> · Institute for Complex Molecular Systems (ICMS)
11:00 – 11:30	<i>Networking coffee break – Poster session</i>
11:30 – 11:45	Human 3D skeletal muscle microphysiological systems for disease modelling <b>Javier Ramón</b> · Institute for Bioengineering of Catalonia (IBEC)
11:45 – 12:00	Challenges to mimic interfaces of the central nervous system <b>Josep Samitier</b> · Institute for Bioengineering of Catalonia (IBEC)
12:00 – 12:15	Light-based biofabrication strategies for engineered tissue models <b>Elena Martínez</b> · Institute for Bioengineering of Catalonia (IBEC)
12:12 – 12:45	Microfluidics: enabling organ-on-chip by merging technology and biology <b>Jaap den Toonder</b> · Institute for Complex Molecular Systems (ICMS)
12:45 – 13:15	Presentation of Flash talks from Exchange Program <b>Gerard Rubí</b> · Institute for Bioengineering of Catalonia (IBEC) <b>Shidong Song</b> · Institute for Complex Molecular Systems (ICMS) <b>Agata Nyga</b> · Institute for Bioengineering of Catalonia (IBEC) <b>René Verhoef</b> · Institute for Complex Molecular Systems (ICMS) <b>Edgar Fuentes</b> · Institute for Bioengineering of Catalonia (IBEC)

13:15 – 14:00	<i>Networking lunch break</i>
14:10 – 14:45	<i>Lab Tours. For non-IBEC members</i>
14:45 – 15:00	Mechanosensing: from integrins to the nucleus. <b>Pere Roca-Cusachs</b> · Institute for Bioengineering of Catalonia (IBEC)
15:00 – 15:30	Synthetic Morphogenesis <b>Vito Conte</b> · Institute for Bioengineering of Catalonia (IBEC)/Institute for Complex Molecular Systems (ICMS)
15:30 – 16:00	<i>Networking coffee Break – Poster session</i>
16:00 – 16:15	Integrative Cell and Tissue Dynamics. <b>Xavier Trepap</b> · Institute for Bioengineering of Catalonia (IBEC)
16:15 – 16:30	Engineering solutions for human pluripotent stem cells derived organoids: immediate challenges and applications <b>Núria Montserrat</b> · Institute for Bioengineering of Catalonia (IBEC)
16:30 – 17:00	Rational design of the cellular niche for in situ cardiovascular tissue engineering <b>Carlijn Bouten</b> · Institute for Complex Molecular Systems (ICMS)
17:00 – 17:05	Final Remarks and announcement of the PD Program <b>Directors</b>