



Centre for Biomedical Technology

Universidad Politécnica de Madrid

21th October 2020, 10h

ON-LINE
MECHANOBIOLOGY
SEMINARS
@ UPM



PROGRAM

10:00-10:15 h. Opening and presentation of mechanobiology seminar

Plenary Talk. Session chair: José Pérez- Rigueiro

10:15- 11h. Prof. Dr. Thomas Scheibel (University of Bayreuth, Germany). *Biomaterials for heart muscle tissue and peripheral nerve regeneration*

11:00-11:30 h. Break

Short Presentations. Session chair: Gustavo Plaza

11:30-11:50h. Rebeca Bocanegra (IMDEA-Nanoscience, Borja Ibarra's group, Molecular Motor Manipulations Lab). *Dynamic constriction and fission of endoplasmic reticulum membranes by reticulon*

11:50-12:10h. Daniel García González (Carlos III University, Department of Continuum Mechanics and Structural Analysis). *Advanced multi-physical modelling in biomechanics: from brain to collective cell migration*

12:10-12:30h. María Rosaria Pricolo (CNIC, Jorge Alegre's Group- Molecular Mechanics of the Cardiovascular System). *Engineering tools to probe titin mechanics in living cells and animals*

12:30-12:50h. Fidel Lolo (CNIC, Miguel Ángel del Pozo's group- Mechanoadaptation and Caveolae Biology). *Cav1, caveolae and the force-buffering continuum*

12:50-13:10h. Blanca González (CTB-UPM, Gustavo Plaza's group- Biomaterials and Regenerative Engineering Lab). *Contribution of T-cell biomechanical features to immune dysfunction and ageing*

12:10-13:30h. Ángel Merchán Pérez (CTB-UPM, Javier de Felipe's group- Cajal Cortical Circuits Lab). *Mechanical interactions between cerebral blood vessels and perivascular synapses*

13:30h Closure