

Biophysical Society 67th Annual Meeting
Mechanobiology Subgroup Symposium
Saturday February 18, 2023
San Diego, California

Subgroup Chair: Virgile Viasnoff, Mechanobiology Institute, National University of Singapore and CNRS, France

Symposium Time: 1:30 PM - 5:30 PM PST

Subgroup Business Meeting: 3:25 PM

Symposium Room: 6E

1:30 Opening Remarks

1:35 PM Pierre Nassoy, National Centre for Scientific Research, France

Cellular Self-assembly and Mechanosensing in Organoids and Tumor Models Encapsulated in Hydrogel Shells

2:00 PM Tamal Das, Tata Institute of Fundamental Research, India

Emergent Features of Collective Cell Dynamics: A Mechanobiological Perspective

2:35 PM Edwin Munro, University of Chicago, USA

Dynamics of a Self-pulled Epithelial Zipper

3:00 PM Min Wu, Yale School of Medicine, USA

Coupled Oscillators in a Contractility-Generating Signal Transduction Network

3:25 PM Subgroup Business Meeting

3:40 PM Mechanobiology Award Lecture: Alba Diz-Munoz, EMBL Heidelberg, Germany

More than the Sum: How Does a Composite Interface Govern Function?

4:05 PM Yee Han Tee, National University of Singapore

Actin Polymerization and Crosslinking Drive Left-Right Asymmetry in Single Cell and Cell Collectives

4:15 PM Charles Cox, Victor Chang Research Institute, Australia

Cardiac Piezo Channels in Health and Disease

4:40 PM Arthur Beyder, Mayo Clinic, USA

Mechanogated Ion Channel Piezo2 Role in Gut Tactile Sensitivity

5:05 PM Valeria Vasquez, University of Tennessee, USA

Dietary Fatty Acids Fine-Tune Neuronal and Non-Neuronal Cells' Mechanical Response

5:30 Closing Remarks

The Mechanobiology Subgroup is grateful for support from the following sponsors:

The logo for alvéole features the word "alvéole" in a dark blue, lowercase sans-serif font. To the right of the text is a green icon consisting of a stylized hexagon with a white shape inside, resembling a honeycomb cell or a biological structure.The logo for THORLABS is written in a bold, red, uppercase sans-serif font. The letters "L", "A", and "B" are white with a red outline, while "T", "H", "O", "R", and "S" are solid red.