

2021 Macromolecular Machines & Assemblies Symposium

Monday, February 22, 2021

10:00 AM – 2:00 PM USA Eastern (*held virtually*)

Subgroup Chair: Michael Sheetz, Columbia University, USA

Presentations:

10:05 AM - Keynote Speaker: Xavier Trepate, IBEC Barcelona, Spain

Mechanical Multitasking: The Forces that Enable Epithelia to Fold, Migrate, Divide and Die

10:35 AM – Amit Pathak, Washington University in St. Louis, USA

11:05 AM - Sara A. Wickstrom, University of Helsinki, Finland

Nuclear Mechanotransduction: Regulation of Cell Fate and Integrity

11:35 AM - Celeste M. Nelson, Princeton University, USA

How to Build an Epithelial Tree

12:05 PM Valerie M. Weaver, University of California – San Francisco, USA

12:23 PM Lisa Manning, Syracuse University, USA

Geometric Signatures of Heterotypic Cell-Cell Interactions in Confluent Tissues

12:41 PM Matthew J. Paszek, Cornell University, USA

Control of Membrane Morphological Transitions by the Glycocalyx

12:59 PM Sweta Murthy, Oregon Health & Science University/Vollum Institute, USA

The Molecular Basis of Mechanically Activated Ion Channels OSCAs

1:17 PM Stuti Desai, University of Texas Medical Branch, USA

Collective Behavior of Salmonella in Persistent Infections

1:29 PM Omer Shafraz, University of California - Davis, USA

Mapping Transmembrane Binding Partners for E-cadherin Ectodomains

1:41 PM Bob Fregin, University of Greifswald, Germany

Dynamic Real-Time Deformability Cytometry: Time-Resolved Mechanical Single-Cell Analysis at 100 Cells