

2021 Motility & Cytoskeleton Symposium

Monday, February 22, 2021

2:00 PM – 6:00 PM USA Eastern (*held virtually*)

Subgroup Co-Chairs: Sanford (Sandy) Bernstein, San Diego State University, USA,
and Kenneth (Ken) Campbell, University of Kentucky, USA

2:05 PM - Michael J. Greenberg, Washington University in St. Louis, USA
SARS-CoV-2 Infects Human Engineered Heart Tissues and Models COVID-19 Myocarditis

2:25 PM - Nikki Reinemann, University of Mississippi, USA
Probing Hierarchical Cytoskeletal Ensembles Using Optical Tweezers

2:45 PM - Thomas Kampourakis, King's College London, United Kingdom
The N-terminal Lobe of the Myosin Regulatory Light Chain is Part of a Sarcomeric Length Sensor in Cardiac Muscle

3:05 PM - Melissa Gardner, University of Minnesota, USA
A Tug-of-War at the Plus-end: Kinesin-14 Motors and Plus-end Microtubule Dynamics

3:25 PM - Krishna Chinthalapudi, Ohio State University Medical College, USA
Structural Basis of Nonmuscle Myosin-2 Regulation

3:45 PM - Joseph Atherton, King's College London, United Kingdom
The Mechanism of Selective Kinesin Inhibition by Kinesin Binding Proteins

4:05 PM - Nadia Daneshparvar, Florida State University, USA
Cryo-EM Structure of Drosophila Thick Filaments

4:25 PM - Jing Xu, University of California - Merced, USA
Cholesterol in Cargo Membrane Amplifies Inhibitory Effect of MAP tau on Kinesin-1

4:45 PM - Andrew Mead, University of Vermont, USA
A Quick Tail: Larval Zebrafish Muscles are a See-through Window into Mechanisms of Contractile Modulation

5:20 PM - Motility & Cytoskeleton Early Career Award Winner: Marija Zanic,
Vanderbilt University, USA

Dynamic Architecture of the Microtubule Cytoskeleton: Understanding by Building

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