

Biophysical Society 67th Annual Meeting

Bioengineering Subgroup Symposium

Saturday February 18, 2023

San Diego, California

Subgroup Chair: Ravi Radhakrishnan, University of Pennsylvania, USA

Program Chair: Mark Uline, University of South Carolina, USA, and Ravi Radhakrishnan, University of Pennsylvania, USA

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

Subgroup Business Meeting: 5:00 PM

Symposium Room: 6D

1:30 PM Opening Remarks

1:35 PM Ariel Furst, Massachusetts Institute of Technology, USA

Engineering Electroactive Microbes for Environmental Sensing

2:05 PM Kalpana Mandal, Terasaki Institute for Biomedical Innovation, USA

Oxygen-generating microparticles increase cardiac contractility, downregulate HIF-1 α expression, and mitigate ischemic injury

2:35 PM Ryan Odstrcil, Washington State University, USA

Predicting Reaction Pathways and Accelerating Protein Conformation Sampling with Machine Learning

3:15 PM Chang Liu, University of South Carolina, USA

A Click Chemistry Amplified Nanopore (CAN) Assay for Ultrasensitive Quantification of HIV p24 Antigen in Clinical Samples

3:45 PM Aaron Streets, University of California, Berkeley, USA

Multi-parameter Epigenetic Profiling of Single Cells and Single Molecules

4:15 PM Padmini Rangamani, University of California, San Diego, USA

Modeling Approaches to Synaptic Plasticity

4:40 PM Closing Remarks

5:00 PM Subgroup Business Meeting

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