

Biophysical Society 68th Annual Meeting

Cryo-EM Subgroup Symposium

Saturday February 10, 2024

Philadelphia, Pennsylvania

Subgroup Chair: Michael Cianfrocco, University of Michigan, USA

Program Co-Chairs:

Halil Aydin, University of Colorado, Boulder, USA

Cornelius Gati, University of Southern California, USA

Jonathan Kim, Columbia University, USA

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

Symposium Room: 204AB

Subgroup Business Meeting: 5:15 PM

1:30 PM Opening Remarks

1:35 PM Sarah Nyenhuis, National Institutes of Health, USA

Cryo-EM Snapshots of Dynamin Superfamily Proteins Involved in Membrane Fission and Fusion

2:00 PM Vera Moiseenkova-Bell, University of Pennsylvania, USA

Structural Insights into Ligand Modulation of TRPV Channels

2:25 PM Chi-Min Ho, Columbia University, USA

In Situ CryoET Reveals Translation Dynamics in Malaria Parasites

2:50 PM Chen Zhao, University of Florida, USA

Determining Native-Like Membrane Protein Structures from Cell Membrane-Derived Vesicles

3:00 PM Break

3:20 PM Scott Stagg, Florida State University, USA

Magellon and SPOT-RASTR: New Tools for Cryo-EM Specimen Preparation and Processing

3:45 PM Dominik Hrebik, Max Planck Institute of Biochemistry, Germany

High-Resolution In Situ Structures of HIV-1 Proteins

3:55 PM Christopher Barnes, Stanford University, USA
Structure-Guided Approaches to Mitigate Emerging Viral Threats

4:20 PM Martin Obr, Thermo Fisher Scientific, USA
Visual Proteomics of C. reinhardtii using High-throughput Collaborative in situ Cryo-ET

4:40 PM Flash Talks: Samuel Hoff, Buyan Pan, and Miro Astore

5:10 PM Closing Remarks and Subgroup Business Meeting

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