

Emerging Theoretical Approaches to Complement Single-Particle Cryo-Electron Microscopy

Trieste, Italy | October 21–25, 2024

The field of biology is experiencing a transformative phase, thanks to remarkable advances in single-particle cryo-electron microscopy (cryo-EM). The explosion of high-resolution cryo-EM maps is challenging computational biophysics to rapidly and robustly discern mechanistic implications from the experimental data. Emerging theoretical approaches aim at processing, validating, complementing, and interpreting cryo-EM data, overcoming issues in image analysis, map refinement, and the simulation of large biomolecules.

This thematic meeting seeks to explore the interface between computational biophysics and cryo-EM, highlighting the breadth of work that spans these two fields, and encouraging new synergies. Our goal for this meeting is to maximize the potential of computations and experiments in the field of single-particle cryo-EM.

Abstract Submission Deadline:

June 3, 2024

Early Registration Deadline:

June 24, 2024

Biophysical Society

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