

# BIOC675: Fundamentals of cryoEM

Instructors:

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This module will provide a historical and technical overview of cryo-electron microscopy (cryo-EM), with a focus on recent developments in single-particle cryo-EM for high-resolution protein structure determination. One week is devoted to a hands-on tutorial.

Topics include:

- Sample preparation
- Microscope anatomy and image formation
- Data collection methods
- Structure determination and refinement
- Model building and validation

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