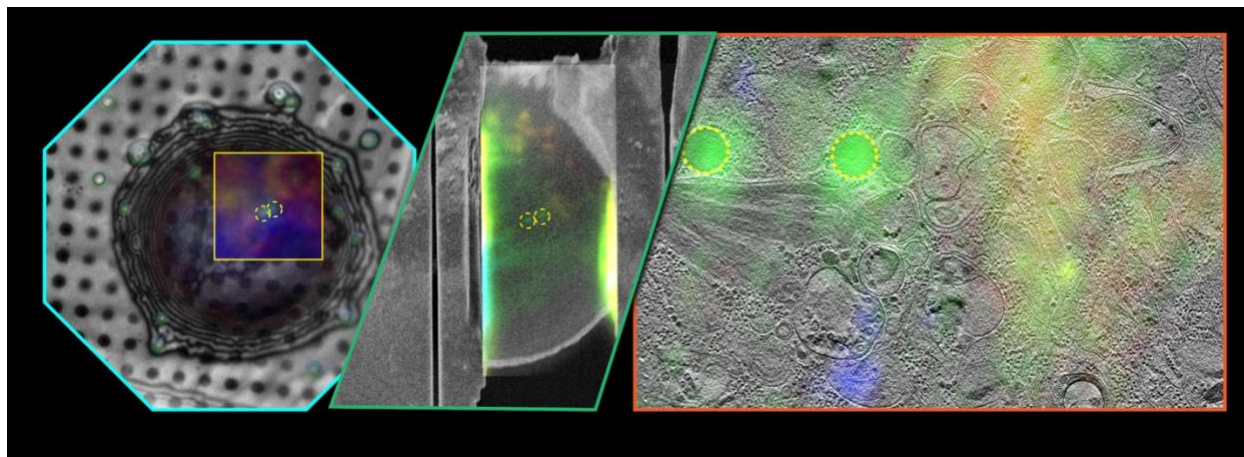


# Tomography and Cryo-FIB Workshop 2023

Midwest Center for Cryo-Electron Tomography

April 17 - 20, 2023



This workshop will help you learn the fundamentals of cryo-electron tomography (cryo-ET) including sample preparation, FIB-milling, correlative imaging, and cryo-ET data collection and analysis. Whether you have been collecting single-particle cryo-EM data and are now looking to start your first tomography project, or have experience with tomography, you'll come away with fresh ideas and strategies you can put to use right away. The morning sessions of the workshop will be hybrid and the afternoon practical sessions will be in-person only. Connect face-to-face with colleagues and build community with other tomography researchers at the Midwest Center for Cryo-Electron Tomography (MCCET) at the University of Wisconsin - Madison.

## Topics include:

- Introduction to cryo-ET including the basic principles of dose tolerance, illumination, and tilt series collection parameters.
- Training in data acquisition workflows that include screening, data collection, flexible scripting, and basic data processing.
- Hands-on skills development with specimen preparation methods including PRIMO micro-patterning, plunge freezing, high-pressure freezing, and other novel approaches.
- Instruction in 2D/3D correlative imaging workflows using a cryo-confocal microscope and the integrated fluorescence module in the Aquilos 2.
- Guidance in FIB-milling with AutoTEM and advanced FIB workflows such as waffle milling and lift-out methods.

[Register Here!](#)