

Cryo-EM for high resolution high throughput in situ protein studies

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Recent progress has been made in structural studies using Single Particle Analysis in CryoEM through the introduction of stable entry level microscope systems, higher speed /sensitivity detectors, and automated workflows. Significant interest is building to explore the next frontier of in situ protein research via CryoTEM Tomography and 3d Volume EM. We will discuss the progress being made toward automated lamella sample preparation and new 3d imaging protocols that have increased throughput and allow researchers to visualize and structurally determine proteins, in their true native intracellular environment, and resolve protein-protein and protein organelle interaction in high resolution detail.

Biography:

Education: M.S. optoelectronics - UCLA. MBA - Washington Univ St. Louis.

Work: President of Andor Technology / Oxford instruments Asia. Global/Asia Market development Director for Life Sciences Electron Microscopy at FEI / Thermo Fisher.

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