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Keynote 4: Multi-scale in situ structural biology in the UK national cryoEM facility eBIC

Tuesday, 16 May 2023 18:45 (45 minutes)

The electron Bio-Imaging Centre (eBIC) is a UK national cryoEM facility located at the UK synchrotron Diamond Light Source. eBIC provides UK and international scientists with state-of-the-art experimental equipment, expertise, and training, in the field of cryo-electron microscopy, for single particle analysis, electron tomography, electron diffraction, and correlative microscopy. eBIC also develops cutting-edge technology with in-house research program, output of which further benefits our users and beyond. The location of eBIC enables scientists to combine their techniques with many of the other cutting-edge approaches that Diamond offers. In this presentation, I will demonstrate the power of emerging in situ structural biology and methods development towards high resolution structures of protein complexes in the most native cellular context. I will also showcase the integration of multi-scale imaging modalities encompassing cryo-electron tomography, soft x-ray imaging and cryoFIB/SEM volume imaging to investigate virus infections in cells.

Select Topic 1

Modern Methods in Structural Biology and Dynamics

Select Topic 2

Bioimaging

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