

MicroED workflow implementation in Leginon

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Leginon is a modular system for automatically acquiring images from a transmission electron microscope (TEM). It has a strong database backend and a web-based viewer. Leginon has been used to collect data for either single particle cryo electron microscopy (cryoEM) or cryo electron tomography (cryoET). Recently, functionality has been added to provide for data collection for microcrystal electron diffraction (microED). This implementation allows selection of potential crystals, previewing their diffracting capacity, queuing selections, and streaming the data to be viewed. I will discuss specific needs in microED automation and variation of workflows that are tailored for different kind of projects.