

The Cryo-Electron Microscopy Revolution

- better detectors: higher signal to noise ratio, super-resolution, recording movies rather than individual images.
- better software algorithms for image processing: e.g. maximum-likelihood, multivariate statistical analysis...

A cryo-EM data set comprises <u>many images of individual particles</u> (terabytes) embedded in vitreous ice representing different views of ideally the same particle – in practice there is heterogeneity in sample composition and conformation/mobility.

