

Expected Learning Outcomes

- Students can explain which biological objects are suitable for structure determination by electron cryo microscopy.
- Students can describe how samples are prepared, how they are imaged and how this image data is processed to obtain structural information.
- Students can reason whether a sample is likely to be vitrified based on information given on the preparation and handling
- Students can analyze a case study and predict a possible outcome for the structure determination based on their knowledge
- Students can outline resolution limiting factors in electron cryo microscopy for a given biological object
- Students can estimate the resolution of a given map based on their concept of resolution
- Students can design an experimental workflow for generating structural information of a multi copy object or a unique object