

Figure 1. Sample quality assessment of human CFTR proteins for cryo-EM study. (A) Size exclusion chromatography profile showing CFTR monomers purified in detergents. (B) SDS-PAGE gel indicating the deglycosylated CFTR so purified has the right molecular weight of ~150 kDa. (C) Negative staining image demonstrating well-separated CFTR protein molecules on a carbon film at room temperature. Note the correct size of the molecules indicated by the scale bar. (D) Cryo-EM image taken with the Krios microscope exhibiting notable mono-dispersity of our CFTR protein sample for single particle analysis.

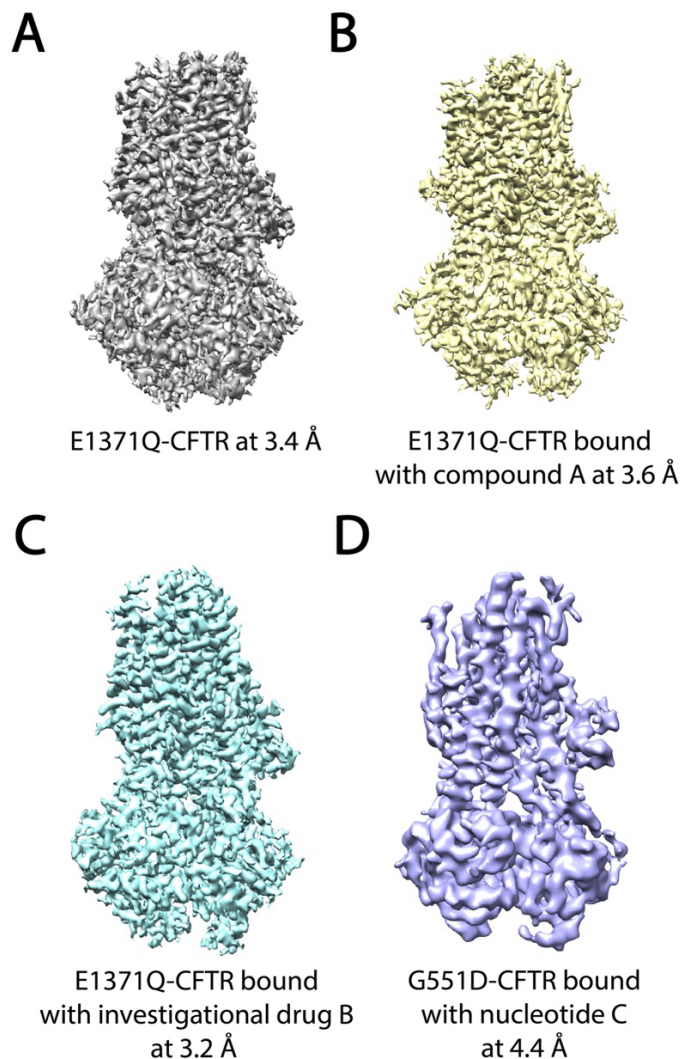


Figure 2. Examples of cryo-EM structures we have determined with the facilities at NCCAT. (A) – (D) A portion of data we have collected from NCCAT using microscope times allocated to us with our last BAG award. All the compounds' names are aliases due to either a manuscript being under review or the confidentiality agreement with our collaborators.