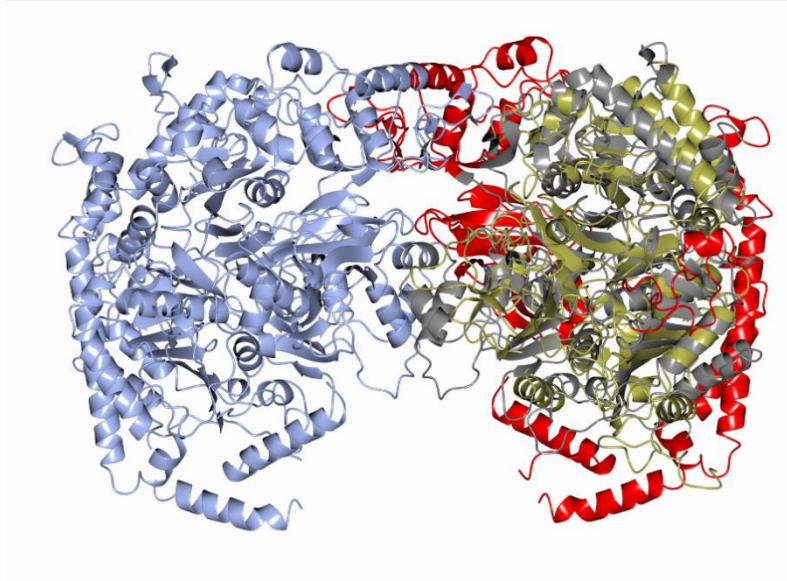
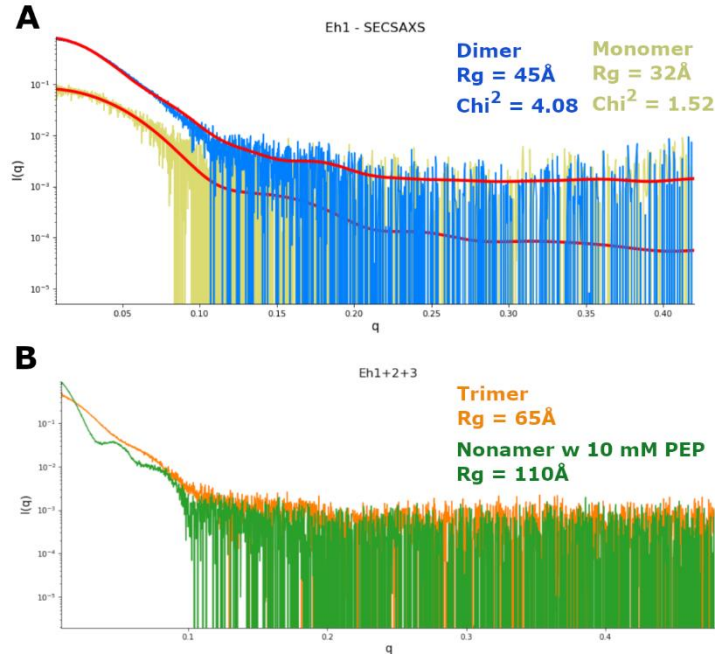


TP1 proposal – Dr. Matthew McLeod

**Determination of oligomeric states of *Entamoeba histolytica* phosphoenolpyruvate**



**Figure 1: Alignment of Nucleotide- and  $\text{PP}_i$ -dependent PEPCK.** Nucleotide dependent PEPCK is in gold. Dimeric  $\text{PP}_i$ -dependent PEPCK is in steel blue (1 monomer), grey (conserved core) and red (residues missing from nucleotide-dependent PEPCK).



**Figure 2: Preliminary SAXS data on EhPEPCK 1, 2 and 3.** A) SEC-SAXS data of Eh1 showing monomer (yellow) and dimer (blue) with FOXSSAXS alignment of theoretical scattering curve from crystal structures of dimer (red) with  $\chi^2$  fit. Data was collected at APS BioCAT18ID. B) SAXS data of Eh1+2+3 without PEP (orange) and with 10mM PEP (green) indicating a conformational change changing from MW ~410 kDa (orange) to ~1200 kDa (green). Data was collected using CHESS 7A1 BioSAXS.