Figure 1. Electron density map of the 30S ribosomal subunit from one of our NCCAT Krios data collections. Despite varying sample components and preparation conditions, BipA was not visible in any of these maps. Map fitted with a reference pdb file (7OE1).

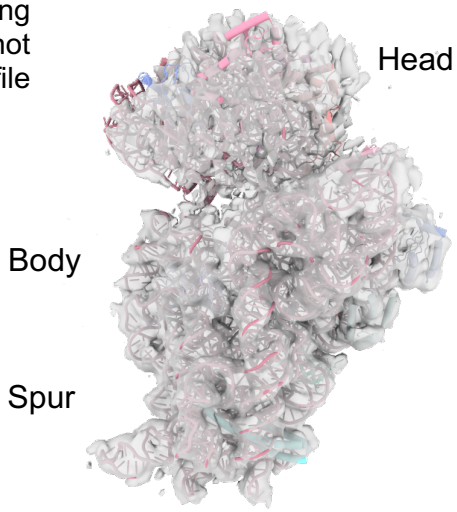

Figure 2. Ribosome co-sedimentation experiments done with wild-type BipA in the presence of serine hydroxamate (nutrient stress) and two BipA proteins with single site substitutions that alters their ribosome binding preference to 30S subunits (left panel). Based on these co-sedimentation data, we cultured bacteria so that these BipA proteins were overexpressed and using centrifugation, prepared an S-100 fraction which was imaged using UConn's Tecnai 12 G2 Spirit BioTWIN transmission electron microscope (right panel). All three ribosomal particles, 70S, 50S and 30S species are visible in these samples.