

Figure 1. A remodeled tRNA at the A-site revealed in the 70S:BipA:GMPPNP cryo-EM model done in collaboration with Dr. Joachim Frank. A closeup of the BipA-tRNA association is shown in the inset. The conformation of the BipA-tRNA state (solid magenta) is presented relative to the classic A/A state (purple mesh). Comparison were done with 70S structure containing mRNA and tRNA (PDB4V51: Selmer et al, 2006).

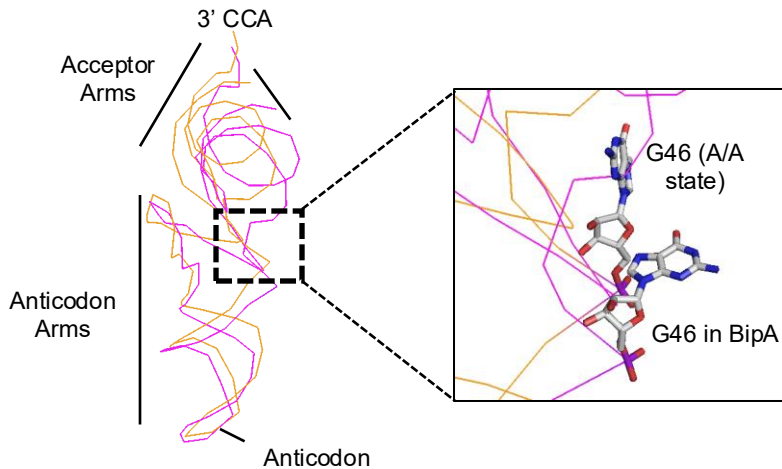


Figure 2. Structural comparisons of A-site tRNAs in our 70S:BipA complex(magenta) vs A/A state tRNA (gold). Shown in the inset, the extended variable loop in the BipA tRNA with a flipped-out base, G46, at the core of the A/BipA tRNA relative to that of the A/A state.

Figure 3. Electron density map at 2.1 Å for our 70S:BipA:GMPPNP structure with a mutant BipA acquired with data collected at NCCAT.

