

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: **Structural differences of HPF_{SA} bound/unbound 30S subunits.** This movie demonstrates the conformational change of the head domain of the *S. aureus* 30S subunit induced by HPF_{SA} binding by morphing between the bound and unbound state. HPF_{SA} is colored in chartreuse and protein uS2 is colored in orange.