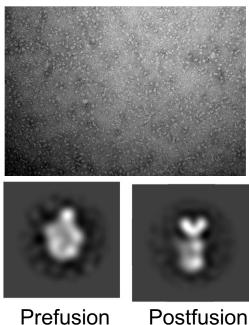
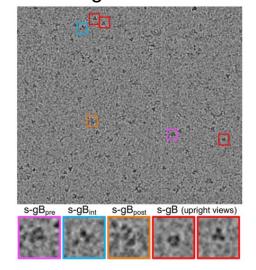


Representative NS micrograph of prefusion HCMV gB



Initial cryoEM studies of uncrosslinked prefusion HCMV gB



NS-EM images of pre- and postfusior HCMV gB in complex with Fabs

В

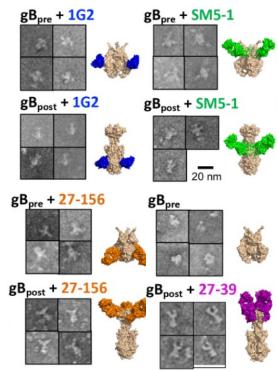


Figure 2: Project 2 figures and preliminary results. A. NS-EM of our stable prefusion HCMV construct. Most particles are in a globular, prefusion state rather than elongated, postfusion state when compared to previous 2D class averages. B. Selected NS-EM particle images of prefusion and postfusion HCMV gB in complex with gB-specific Fabs. Corresponding 3D representations of Fab binding modes modeled manually. C. Initial cryoelectron micrographs of uncrosslinked HCMV gB reveals a preferred orientation problem we aim to resolve using glutaraldehyde crosslinking and octyl  $\beta$ -D-glucopyranoside detergent incubation as determined by our Project 1 preliminary data.