

SARS-CoV-2 spike + Fabs

2D class

ab090



PVI.V3-9



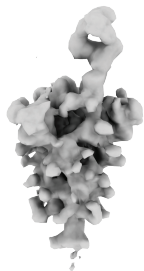
PVI.V6-4



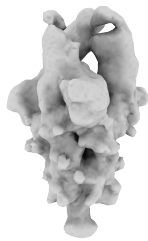
PVI.V5-6



current 3D model



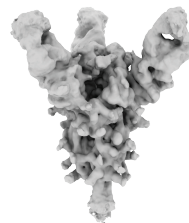
one RBD "up",
one Fab bound



three RBDs "up",
three Fabs bound



two RBDs "up", one "down"
three Fabs bound



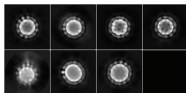
three Fabs
bound to NTD

influenza hemagglutinin

gHA



nanoparticle



EM

model

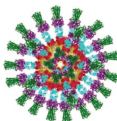
reconstruction



MS2-biotin



MS2-biotin
streptavidin
anti-HA Fab



MS2-biotin
streptavidin
anti-HA Fab
HA head + HA stem



hyperglycosylated
HA immunogen