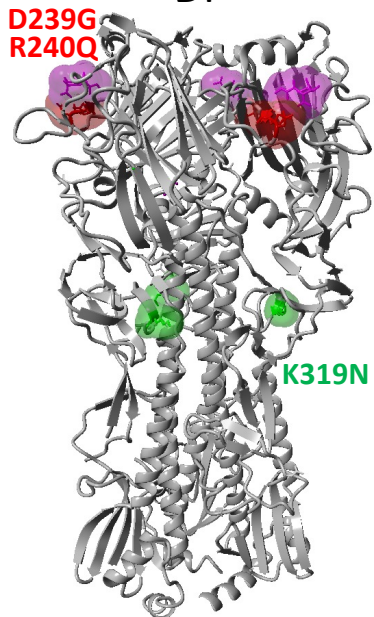


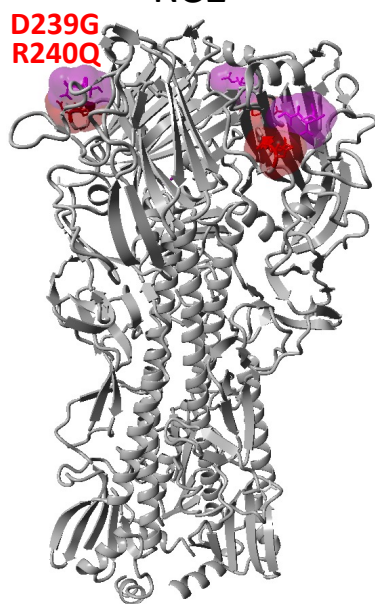
Changes in HA at Nucleotide cutoff Frequency of 50%

H1N1

DI



RC1

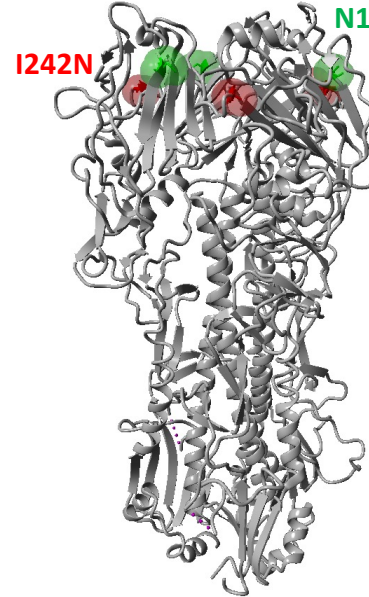


RC2

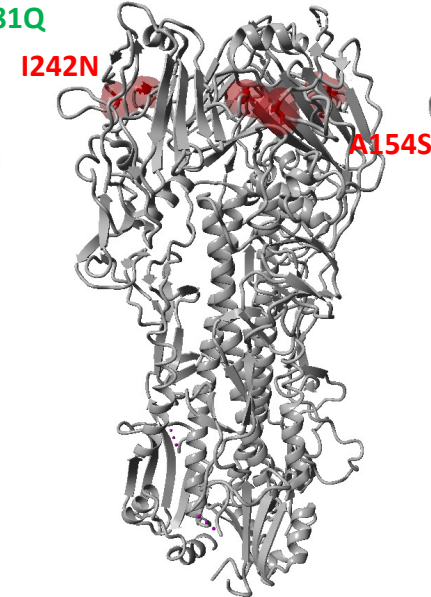


H3N2

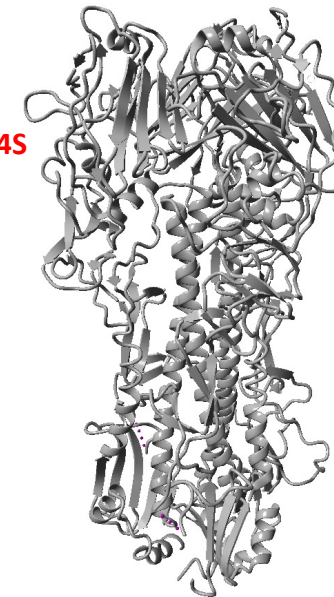
DI



RC1



RC2

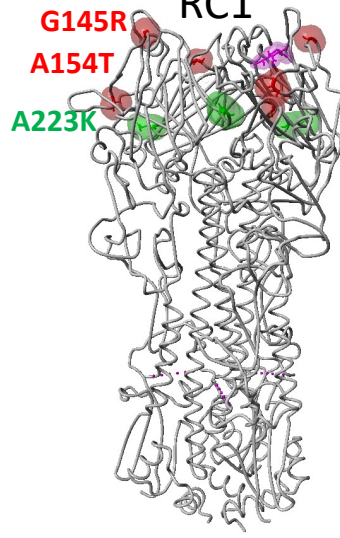


H3N8

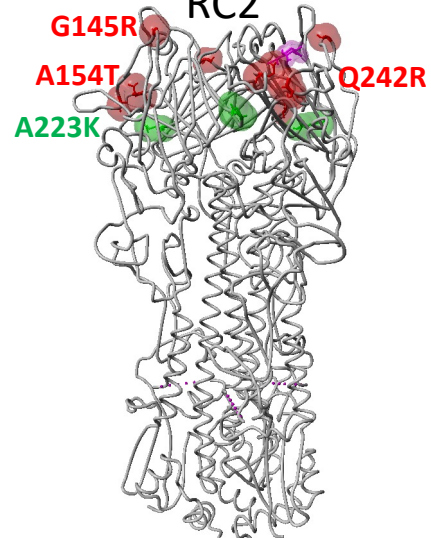
DI



RC1



RC2

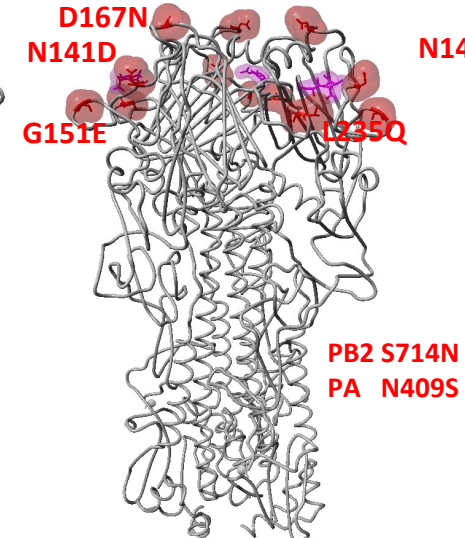


H7N9

DI



RC1



RC2

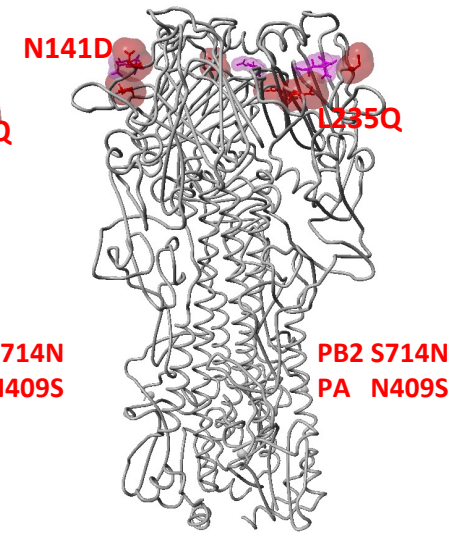


Fig S1