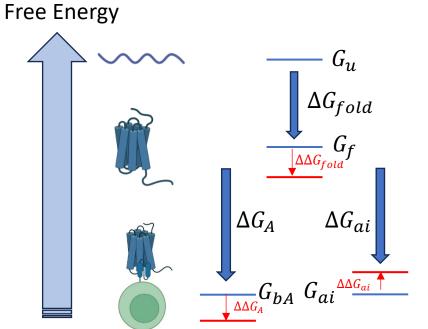
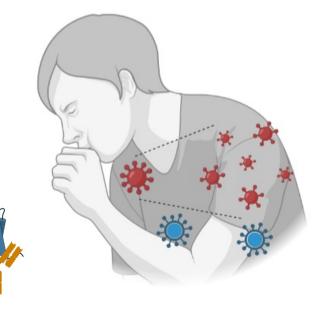


Mutation on RBD leads to mutant



Mutant may have:

- 1- improved folding stability
- 2- improved binding to ACE2
- 3- decreased binding to antibody



Mutant multiplies



Wildtype



Mutant



Folded RBD



✓ Unfolded RBD



RBD bound to ACE2



RBD bound to antibody



Energy state for wildtype and mutant