

# RARE EVENTS

crystallization &  
self-assembly

catalysis

reactions

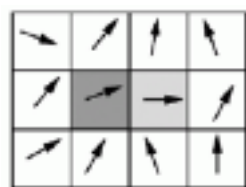
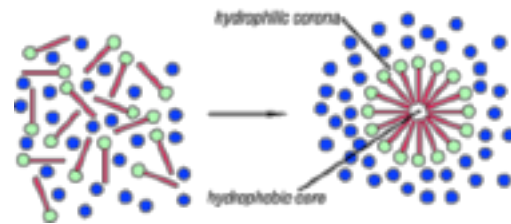
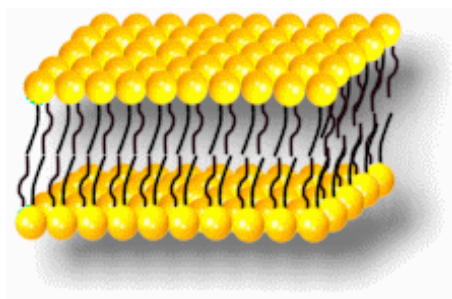
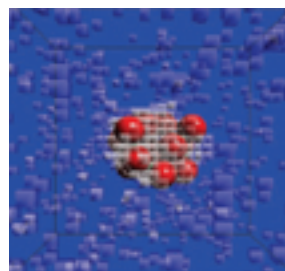
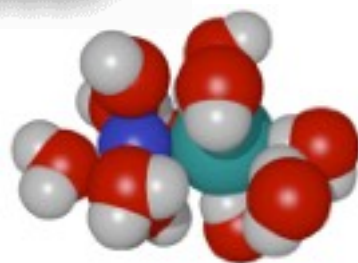
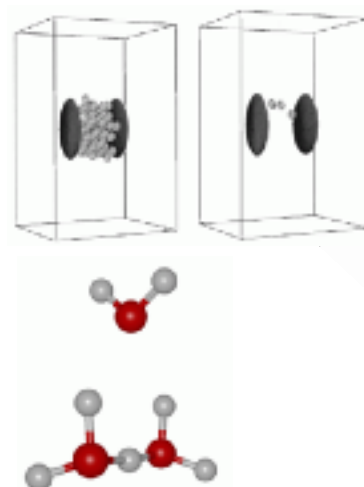
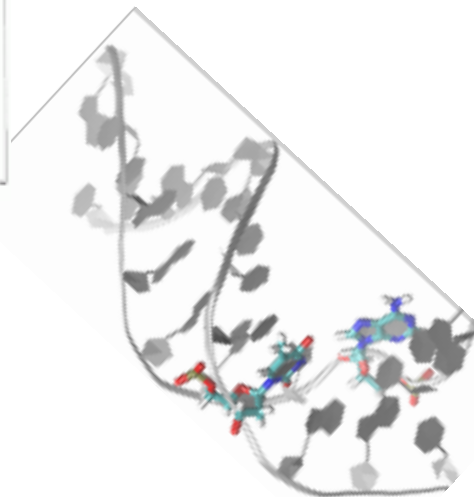
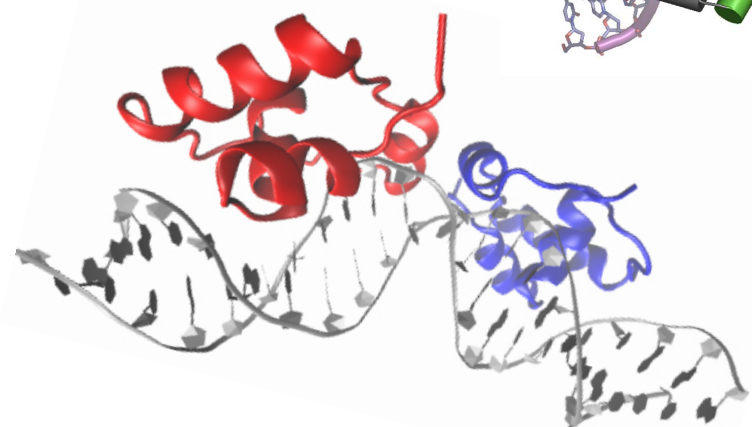
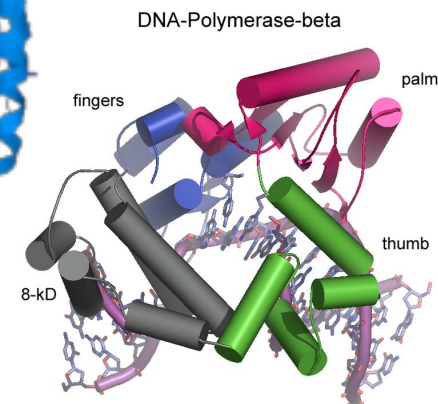
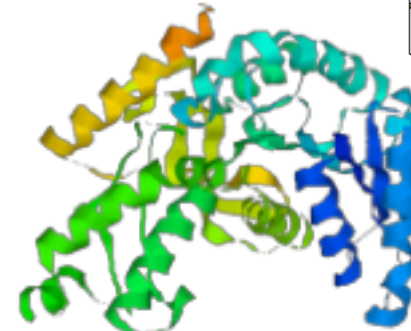
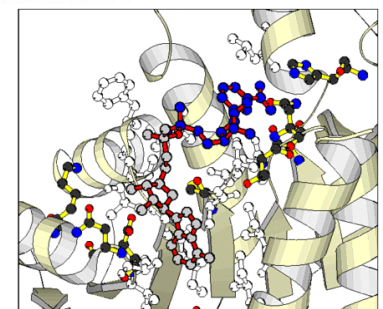
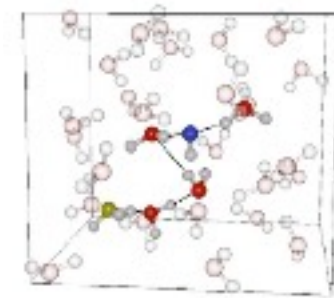
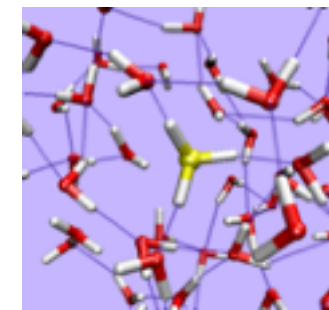
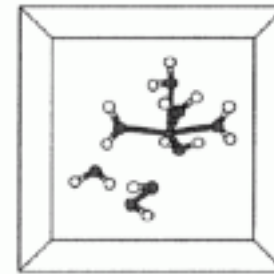
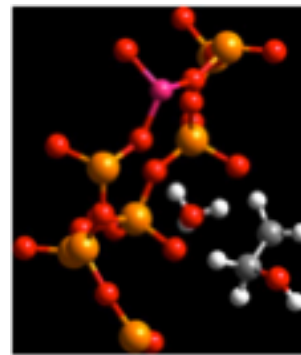
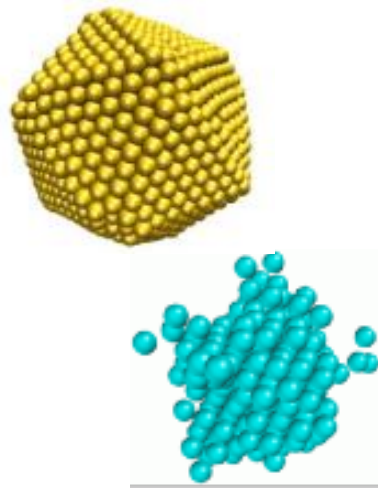
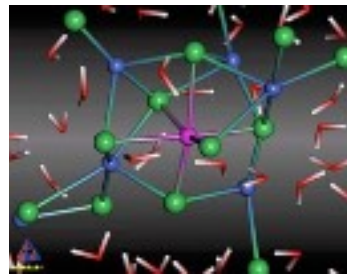
enzyme  
reactions

folding & binding

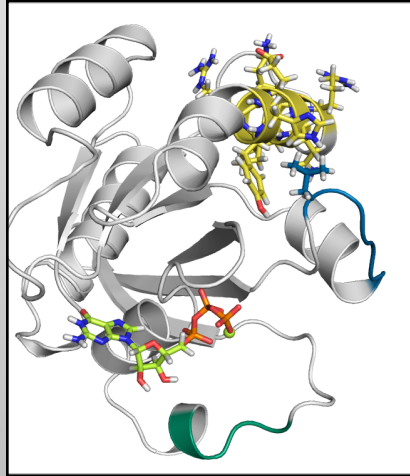
conformational changes

solvent effects

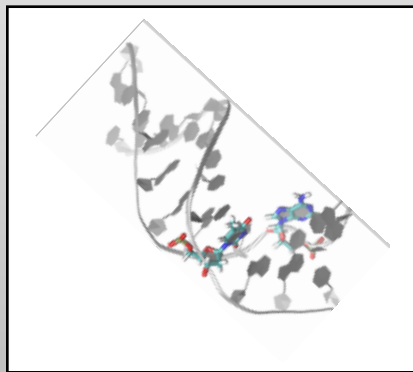
complex  
fluids



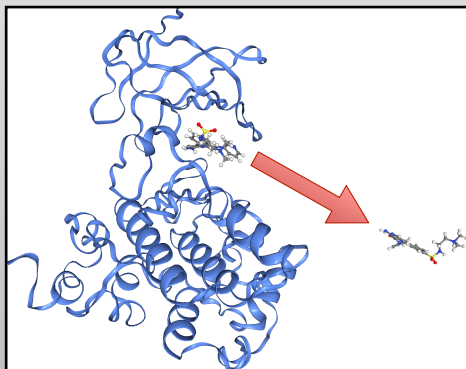
# Questions



Are there fundamental differences in the dynamics of wild type and oncogenic mutant proteins?



What is the mechanism of the Watson-Crick to Hoogsteen conformational transition in DNA?



How does a drug bind/unbind from its target site? What role do non-target short-lived binding poses play?