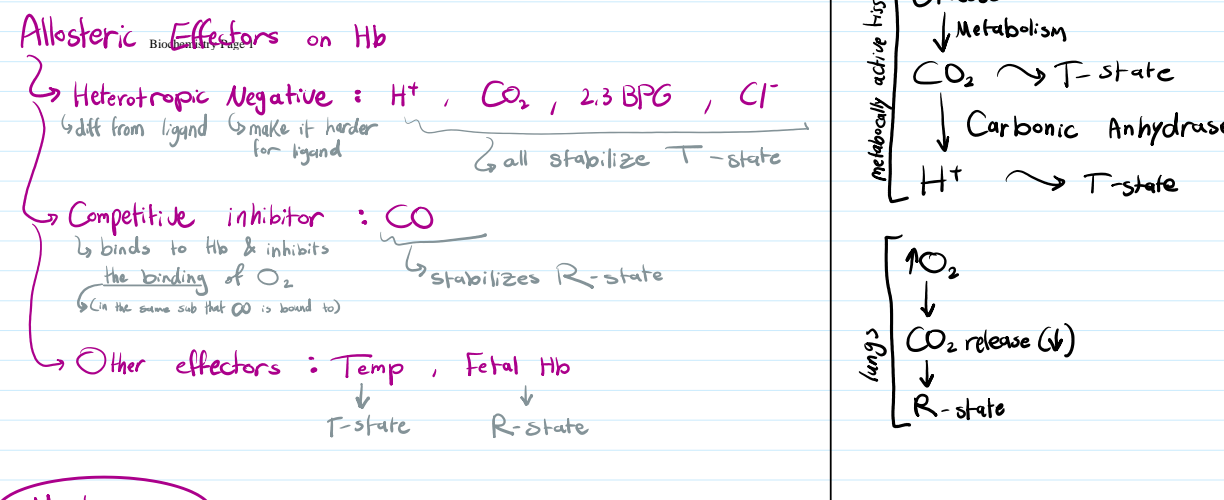
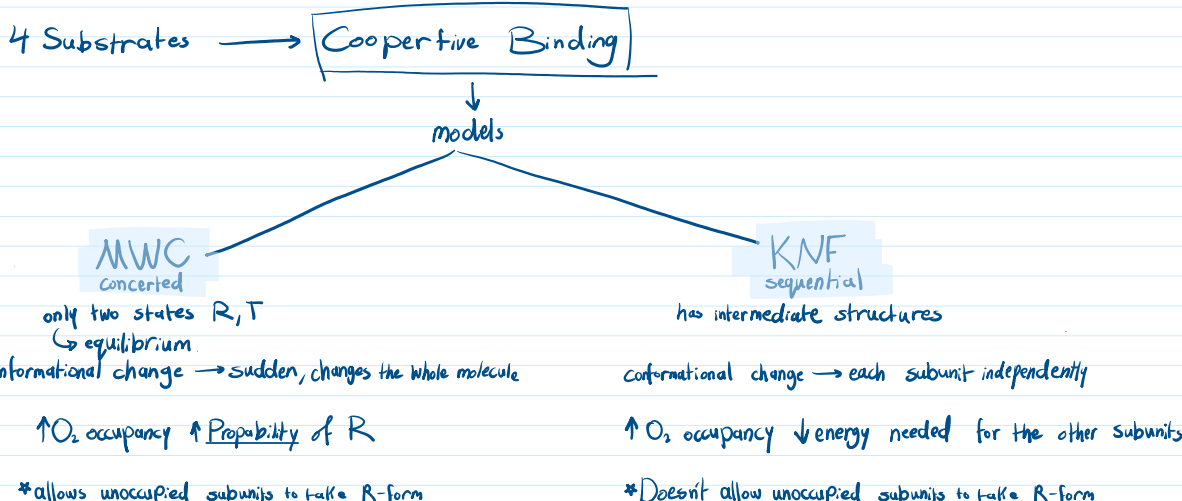
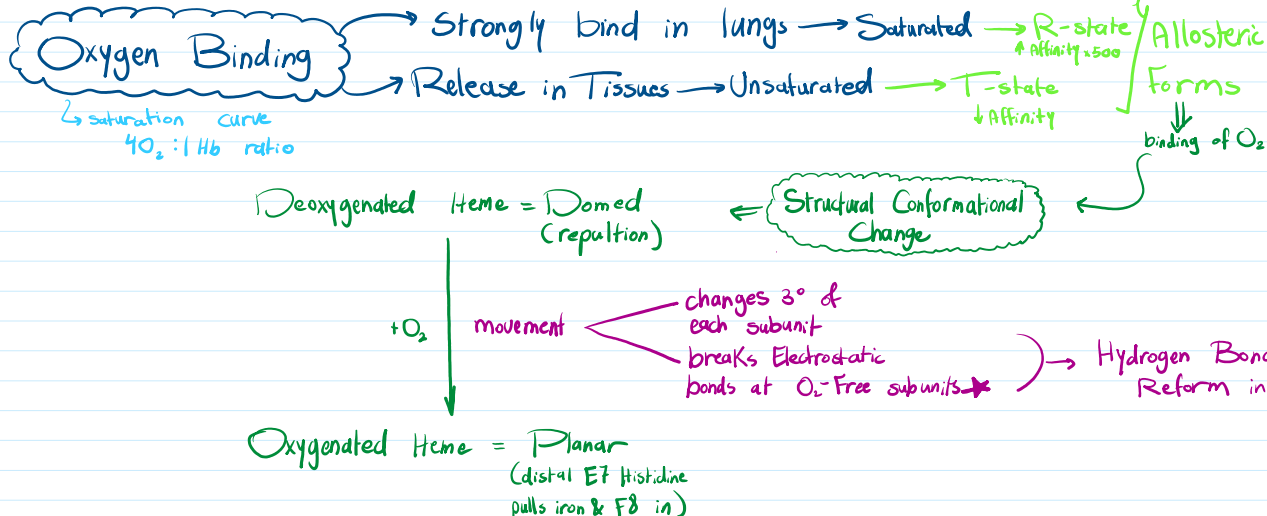
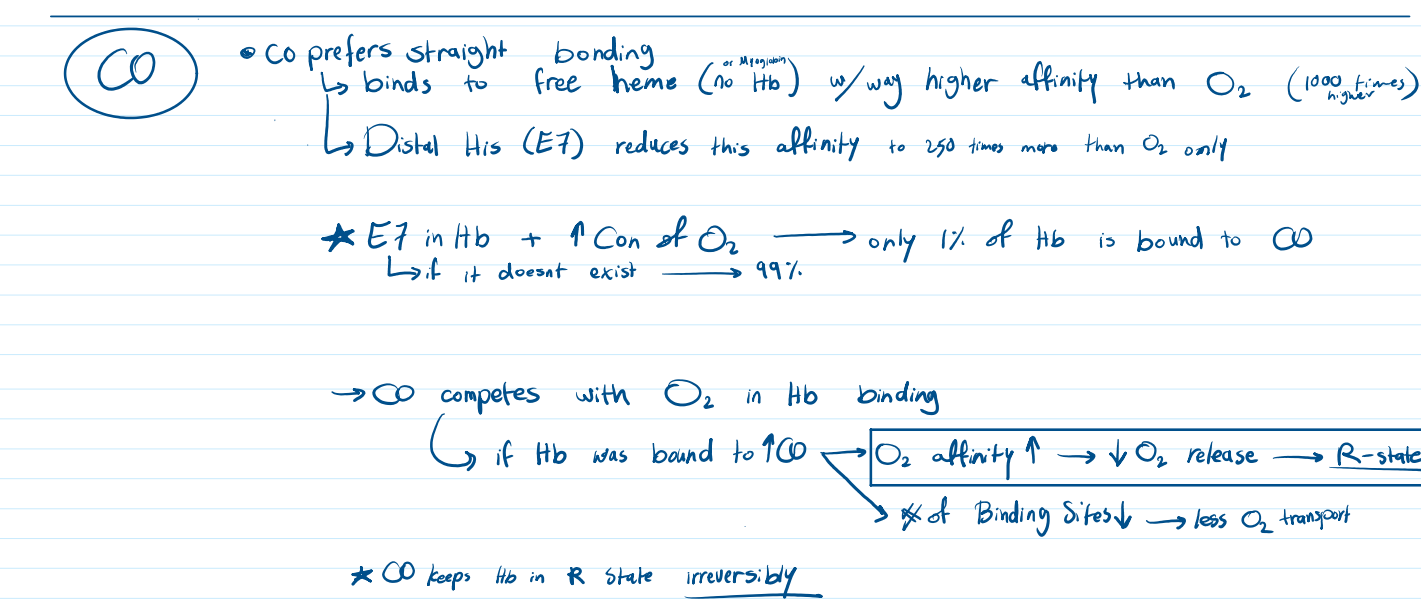
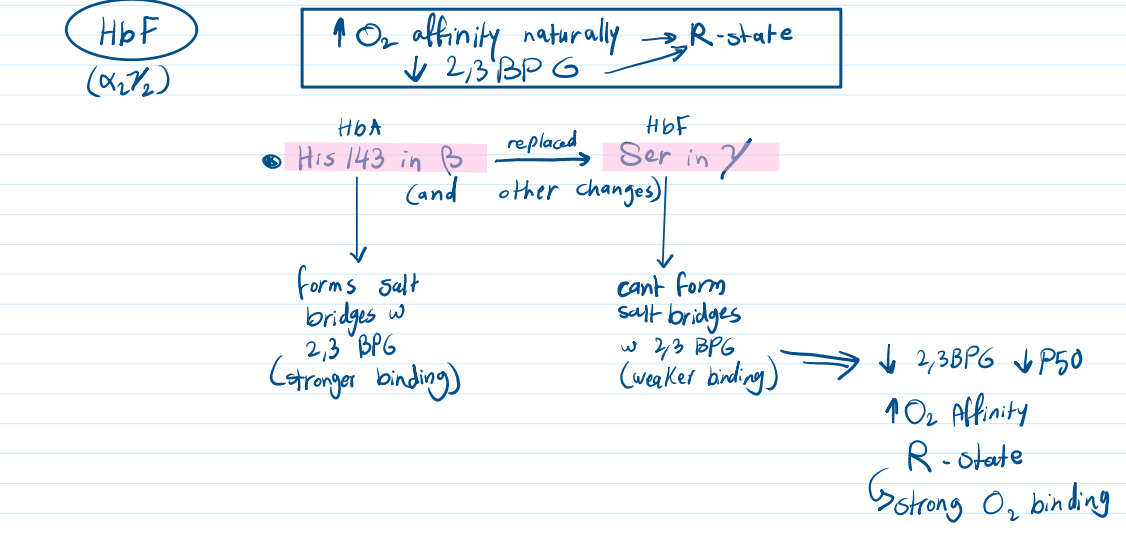
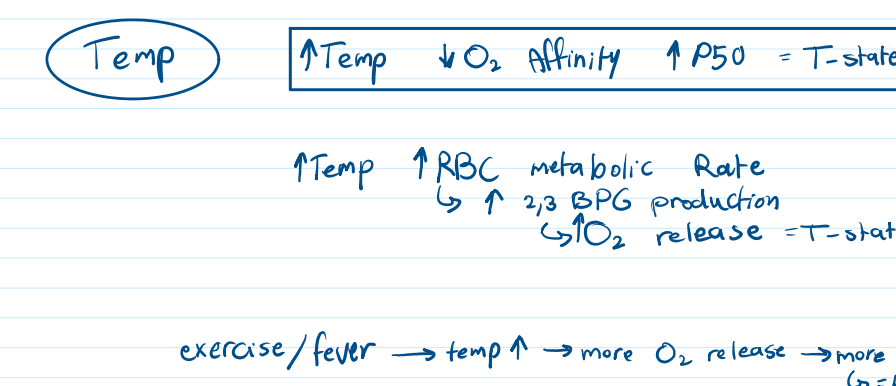
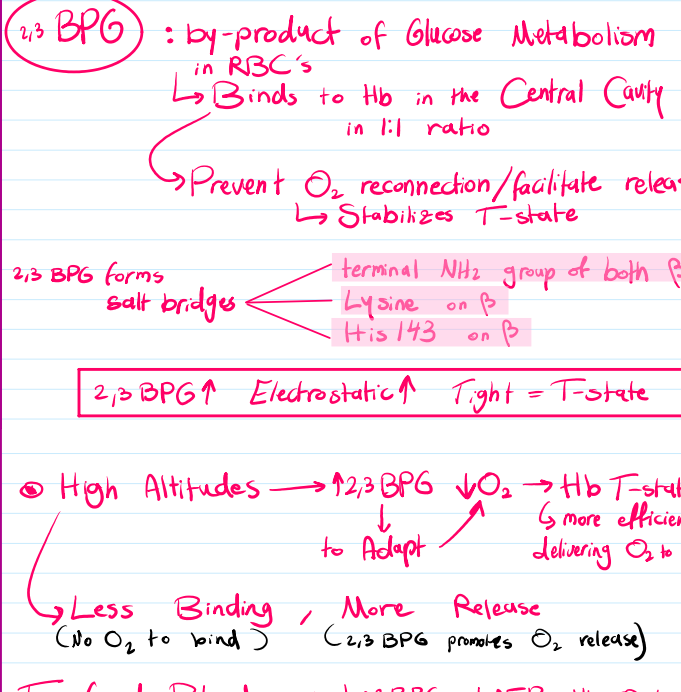
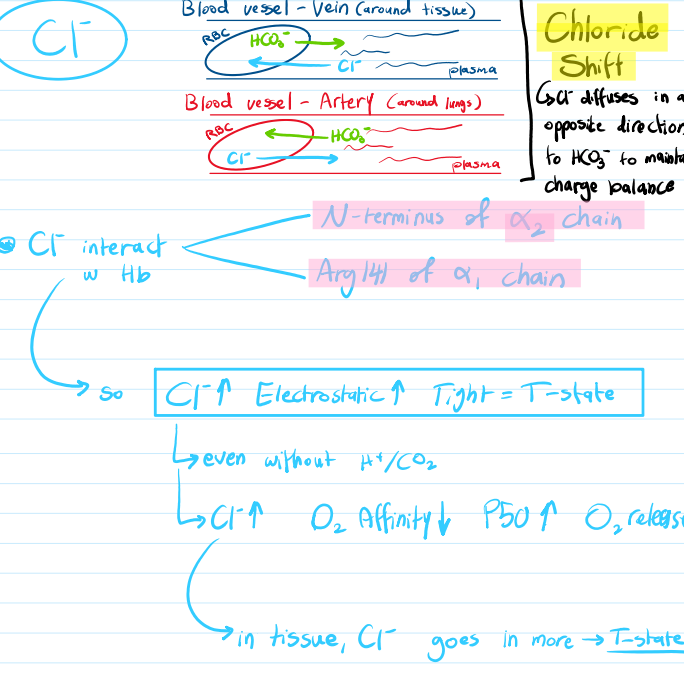
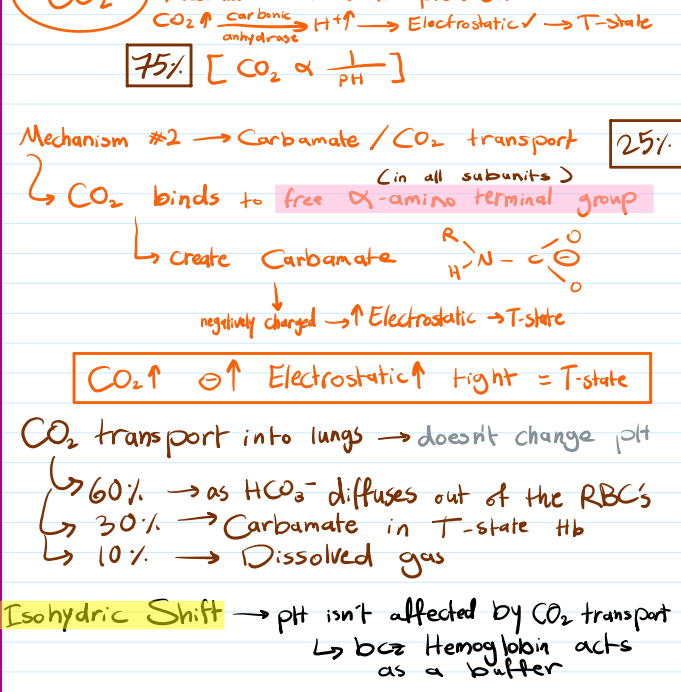
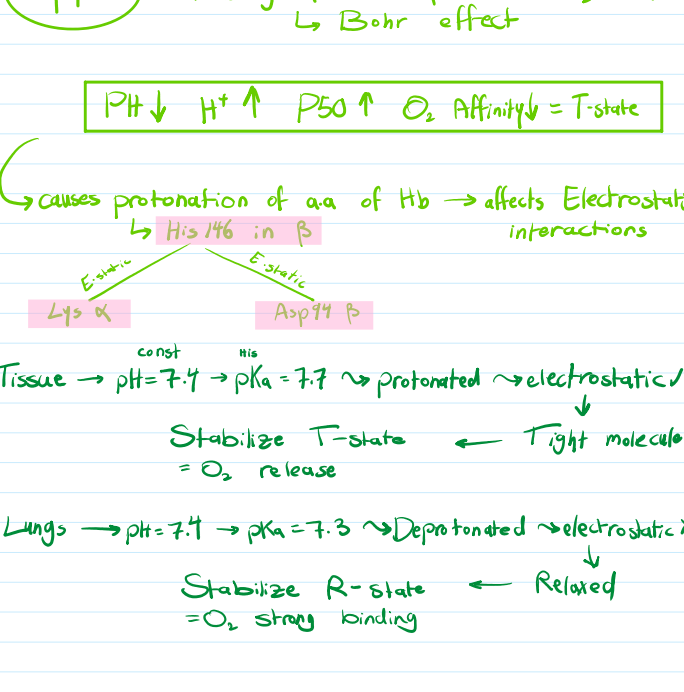


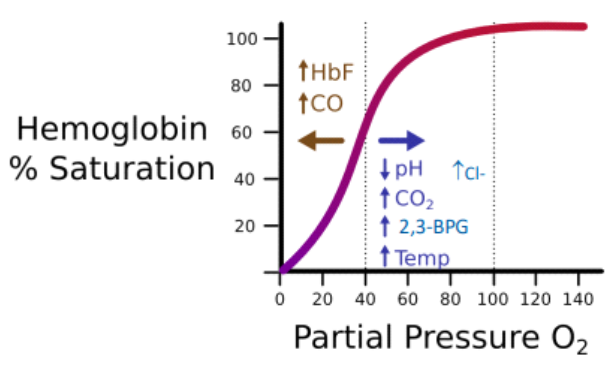
**Structure**  
 2  $\alpha$  + 2  $\beta$  chains  
 $\hookrightarrow$  141 aa  $\hookrightarrow$  146 aa  
 Val $\rightarrow$ Arg<sup>11</sup> His<sup>146</sup>  
 7  $\alpha$  helices 8  $\beta$  helices  
 4 heme groups + 4 Fe<sup>2+</sup>  
 Hydrophobic interactions  $\rightarrow$  within each  $\alpha\beta$  dimer  
 Electrostatic & Hydrogen Bonds  $\rightarrow$  between the two dimers \*



**Mechanisms**



**Summary \***



by: Layan Al-umir