

Session 9

10/01

- Where does oxygen bind to on Hb?
- What are the two states of Hb?
- What happens to Hb when oxygen binds?
- What does this conformation change look like? What amino acid is involved?
- What interacts with each subunit of Hb?
- Where in the body is PO_2 highly concentrated? Where is PO_2 low?
- What causes oxygen to dissociate from Hb? Where is this occurring?

- Why is oxygen concentration relatively low in tissues/muscle cells?
- Where does CO₂ bind on Hb? Write out the chemical equations of the binding of CO₂ relative to their location in the body.
- Where is Mb found?
- How many subunits make up Mb?
- What is the function of Mb?
- The muscles of deep diving mammals such as whales contain exceptionally large amounts of Mb. How does this circumstance contribute to prolonged dives?