Session 8

Unit 2

09/29

- Define Allostery

- Define ligand

- Define binding site and active site

- What are the general traits of allosteric interactions?

- What are the concerted/symmetrical assumptions?

- Draw the concerted model

- What are the Sequential model assumptions?

- Draw the sequential model

- What are the subunits and quantities of hemoglobin?

- Where does oxygen bind to hemoglobin?

- What are the two confirmations (T and R) for the allosteric interaction of the heme group (Hb)?

- Name all of the ligands that the heme group of hemoglobin can bind with.

- Draw the sigmoid curve with the graph. Label arteries, veins, lungs, tissue, and draw the new curves representing addition of CO_2 and H^+ concentrations.

Lungs pO_2 =
Tissue pO_2 =

- How does the allosteric interaction of Hb and oxygen work with the sequential and concerted models?

- What does R to T shift represent?

- What does T to R shift represent?