Biochemistry 3

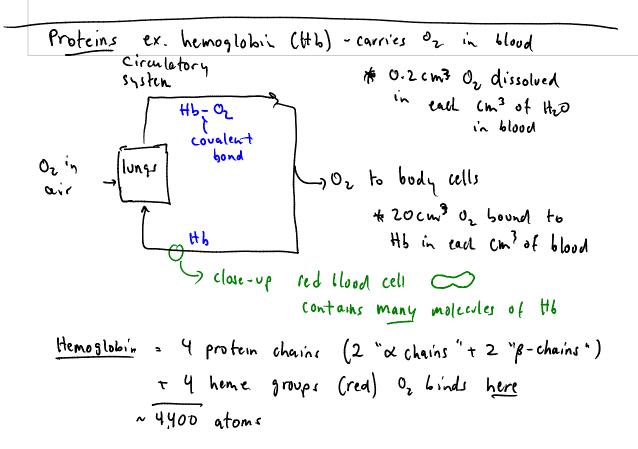
• send answer to iClicker Question 15A now.

Exam I comments

Proteins II: "Anatomy"

Hemoglobin

- intro
- levels of structure: 1°, 2°, 3°, & 4°
- example bonds
 - ionic
 - Hydrogen
 - hydrophobic interaction
- iClicker Question 15B
- ⇒ Due in lab THIS week:
 - Pre-lab for Chemical Properties Lab (Lab Manual p 85 & on-line)



Levels of protein structure (ways to look at a protein)

- O primary (1°) structure = sequence of amino acids in protein Chain ex N-val-his
- formed by H-bonds between parts of backbone

* 4 typer O & helix - coiled

(3) p sheet - pa-allel backbone segments
(3) turns
(4) random coil (misc)

- 3 tertiary (3°) structure fully-folded shape

 determined by interactions between side-chains
 all proteins have all (3)
- 9 quaternary (4°) structure interactions between different protein chains (via side chains)

 *not all proteins have this (46 does)

 =) multi-protein complexes

 cx- hemoglozic = 4 protein moleanles per unit

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