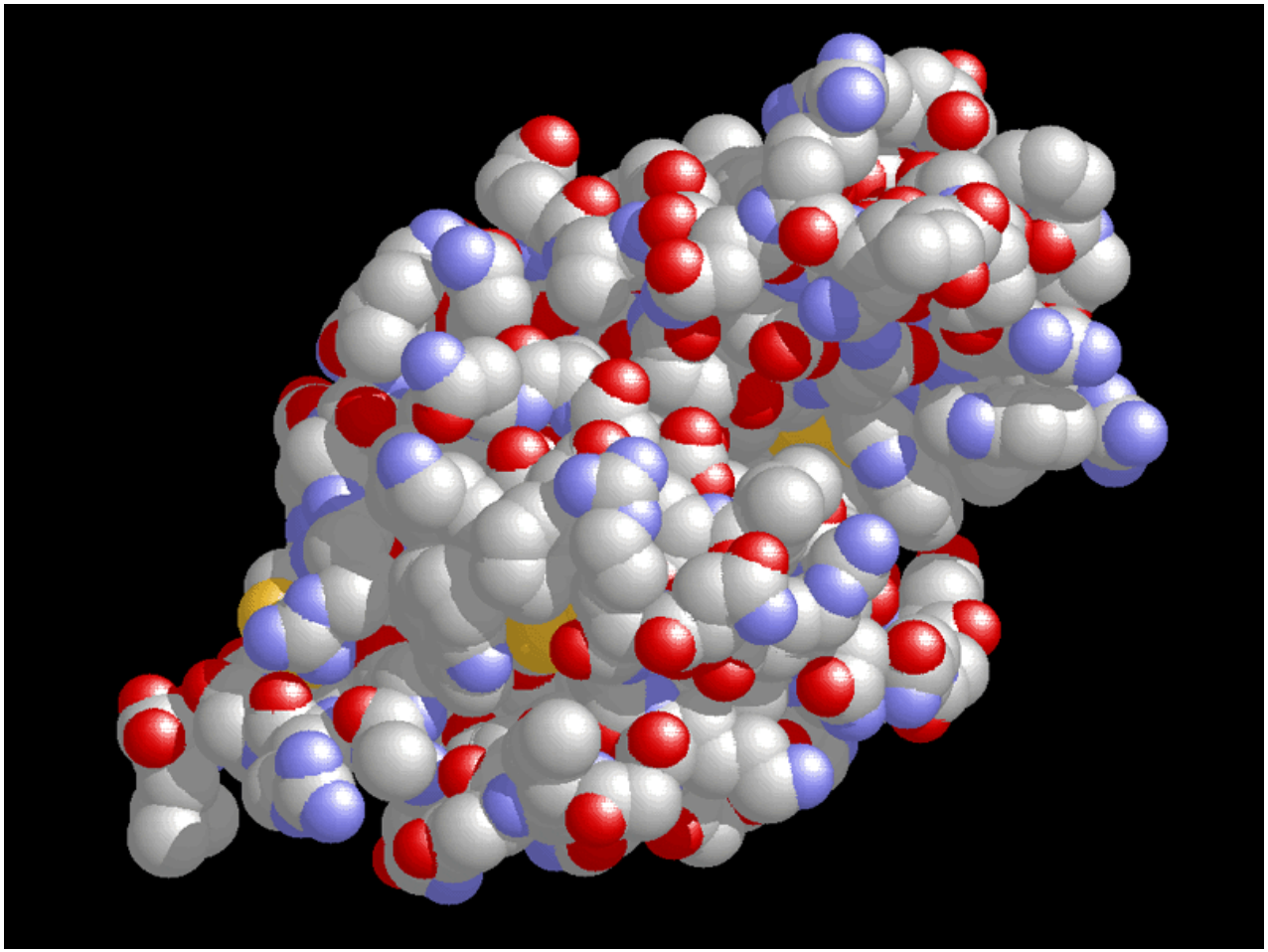
AP Biology

Biochemistry: Macromolecules

Part 2

Proteins



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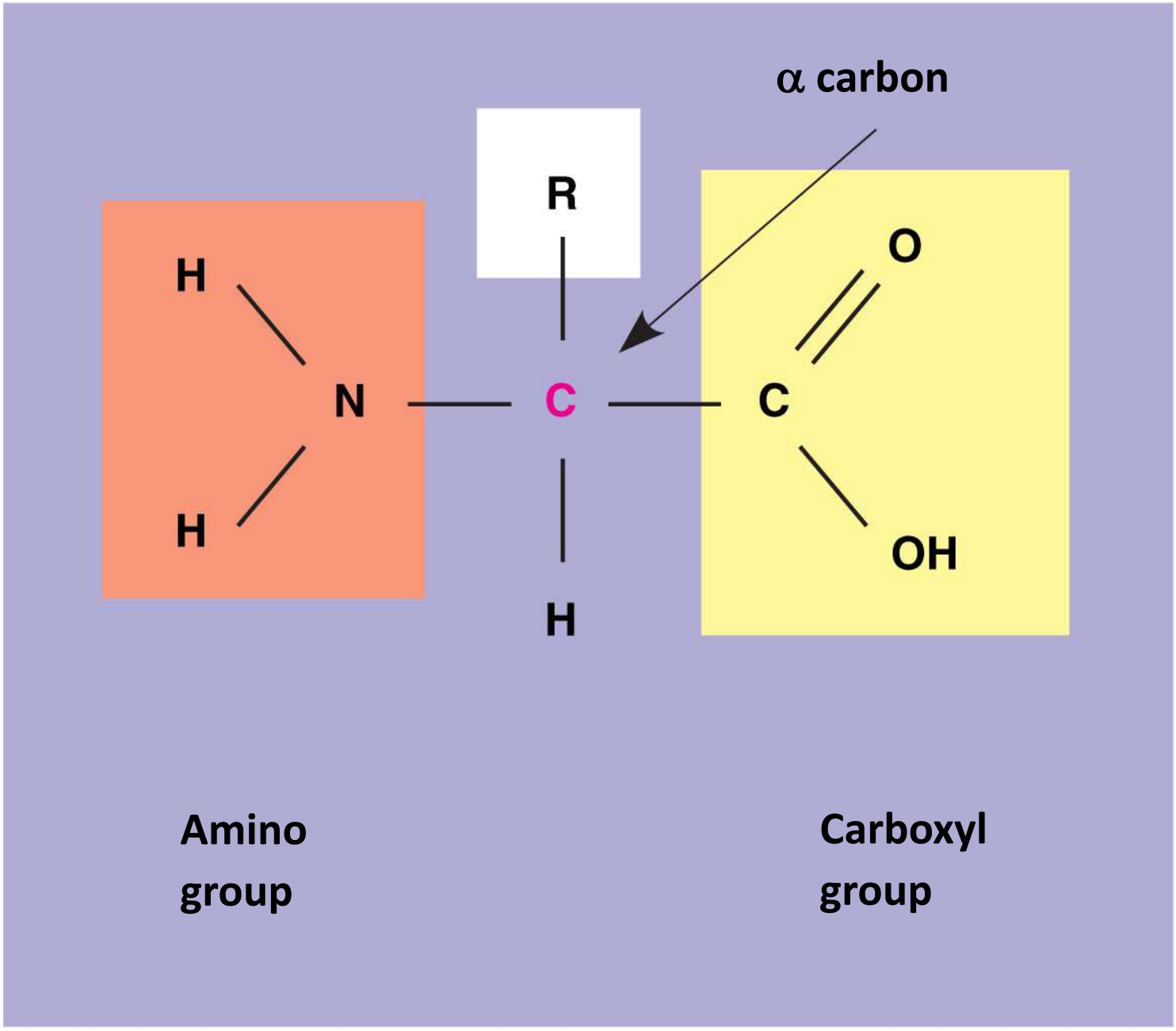


Fig: 5.17a

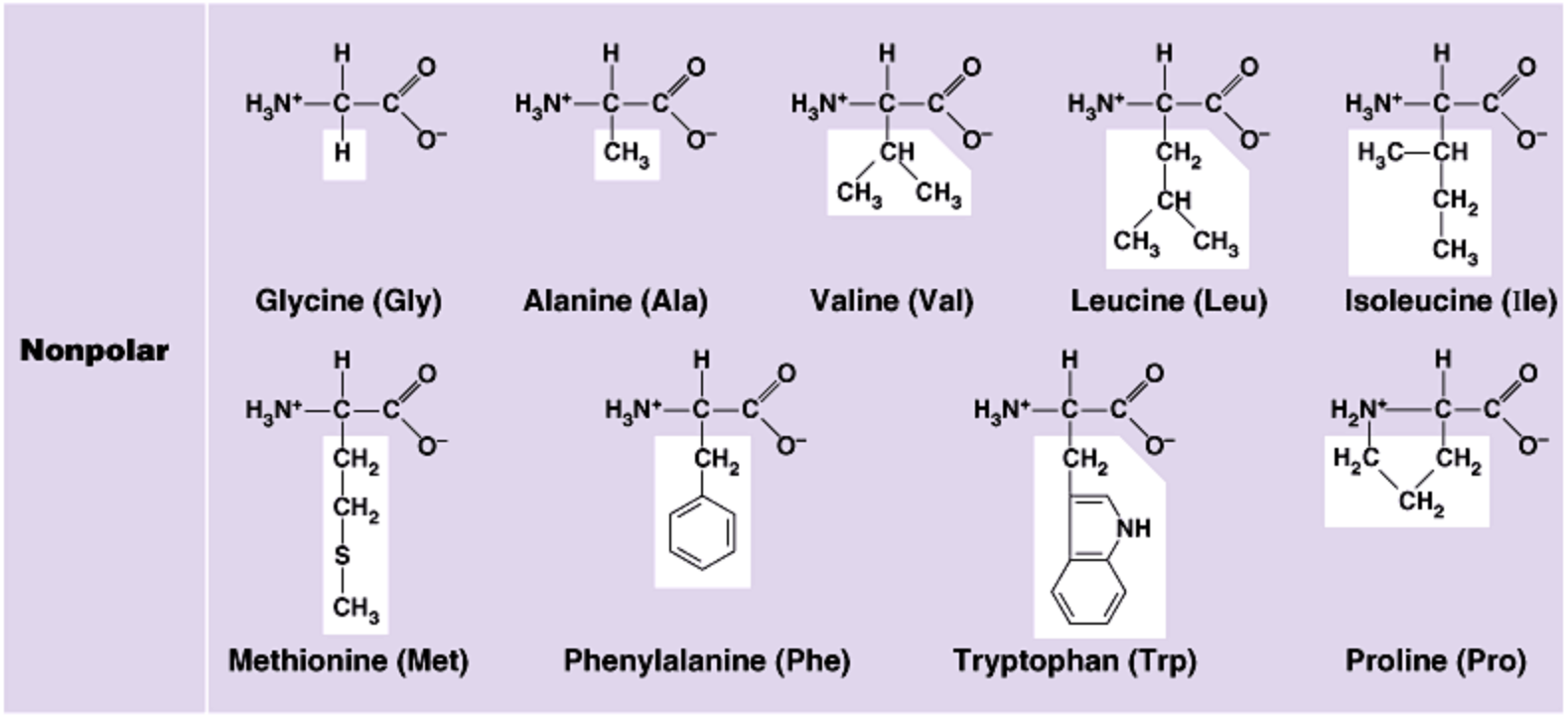
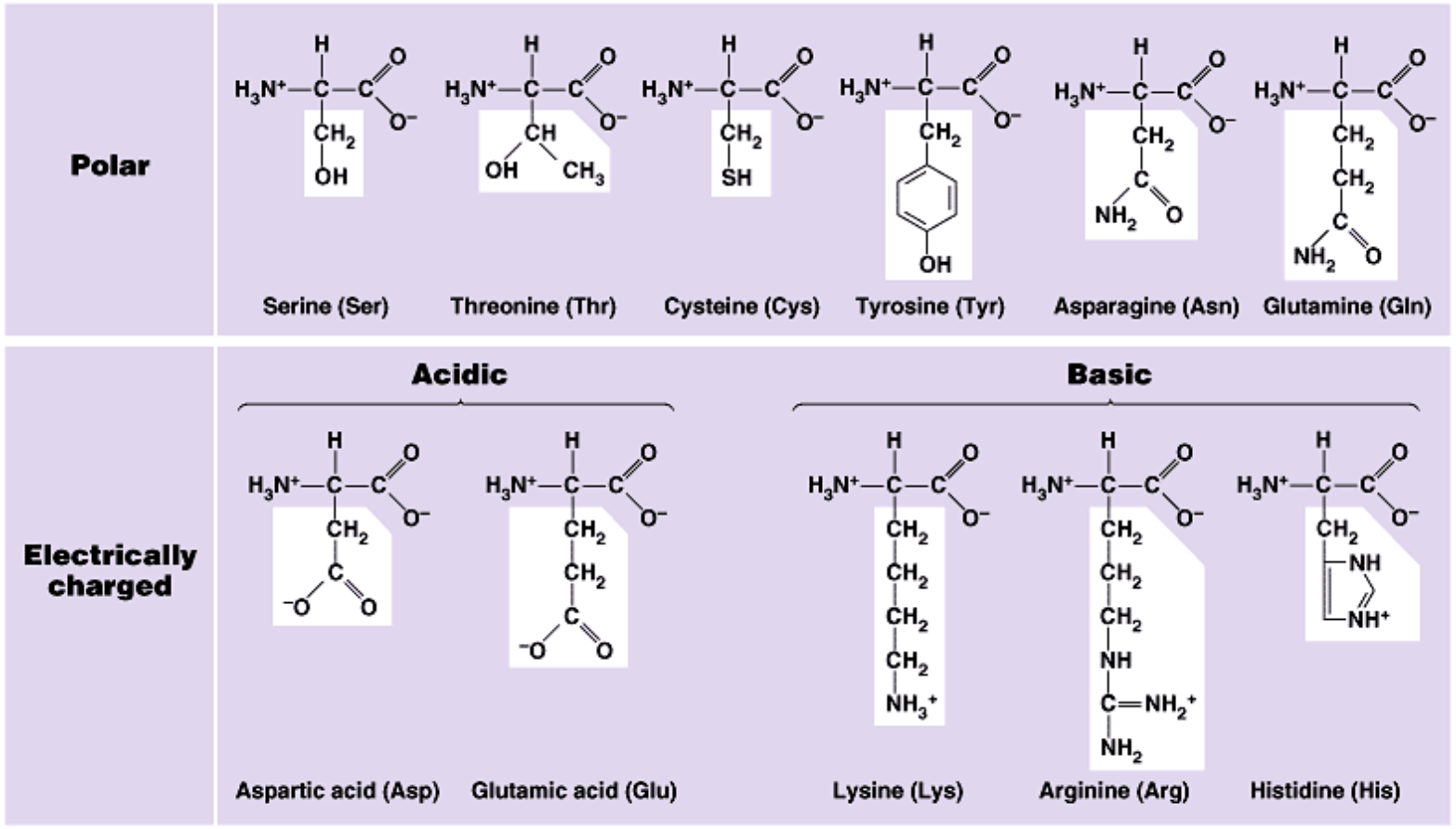
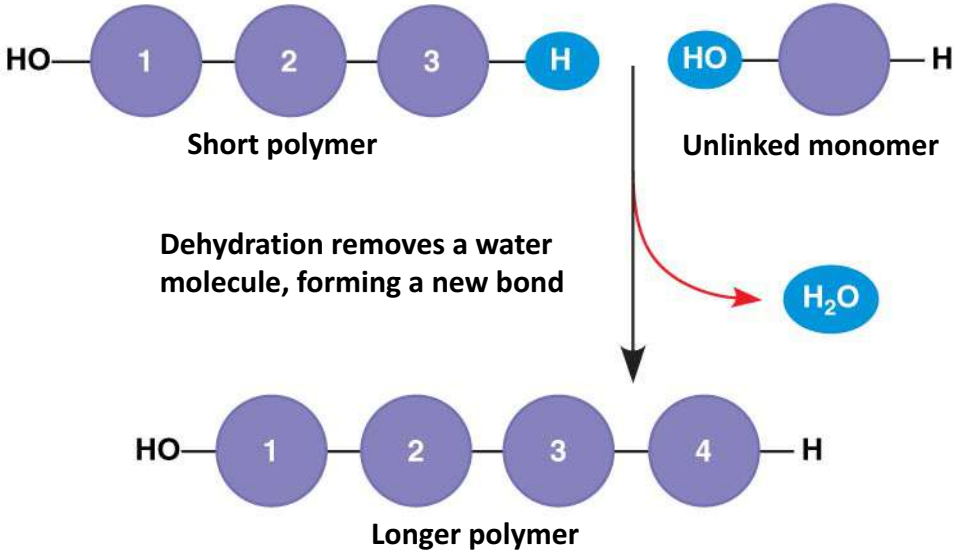


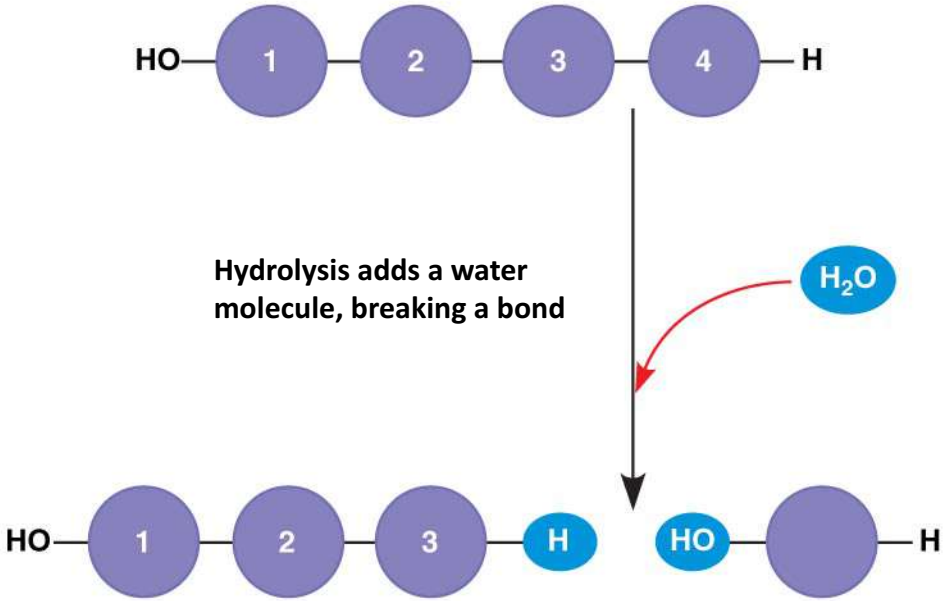
Fig: 5.17b



Dehydration and Hydrolysis Reactions again

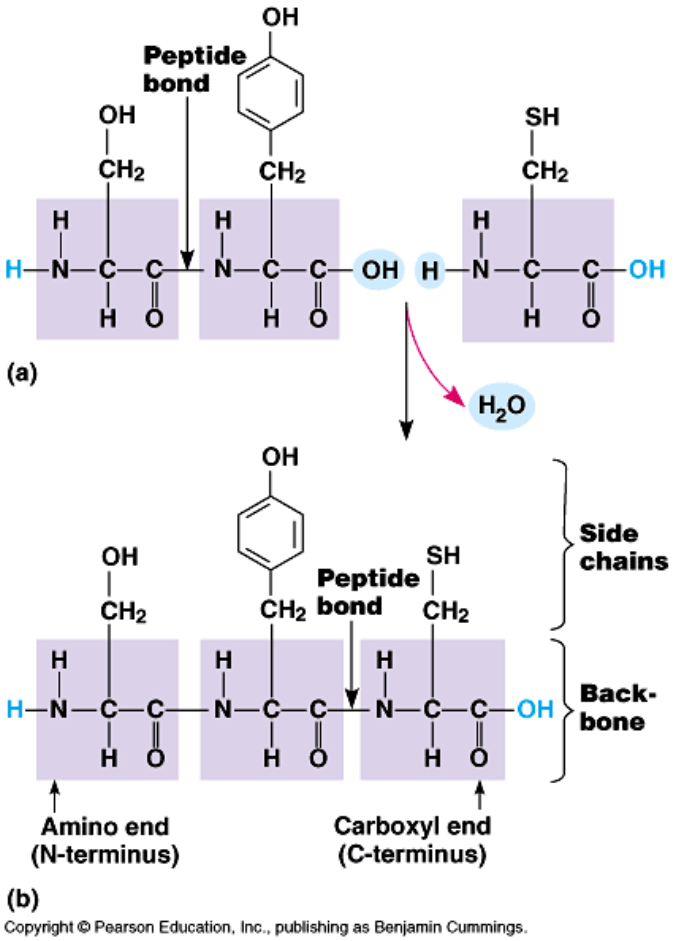


(a) Dehydration reaction in the synthesis of a polymer

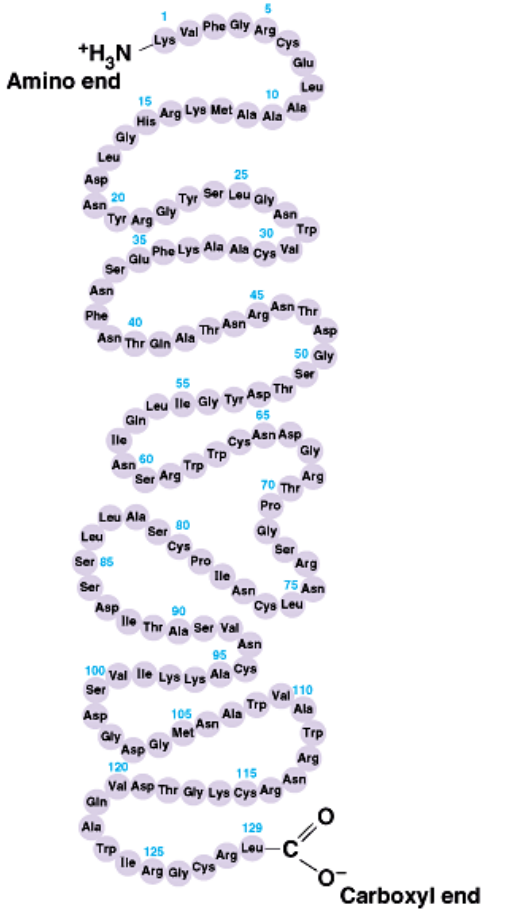


(b) Hydrolysis of a polymer

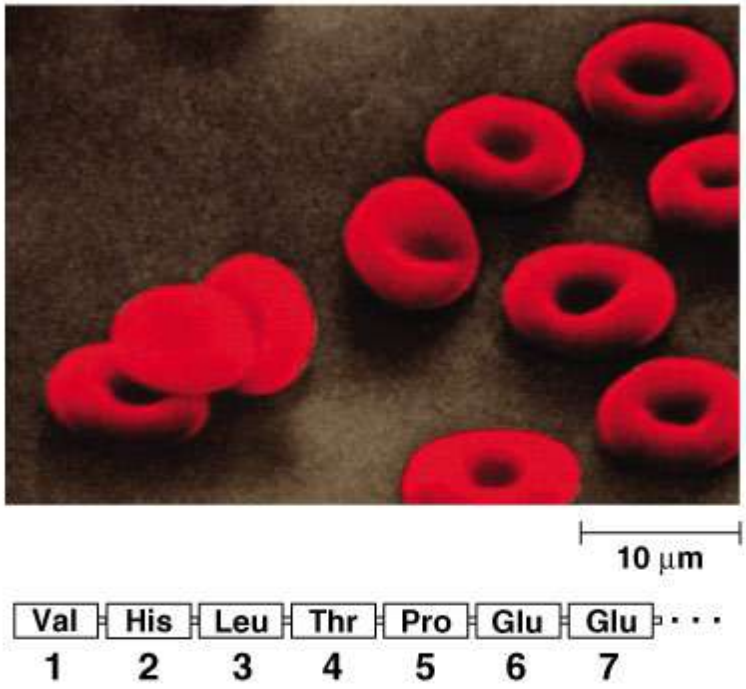
Peptide Bonding



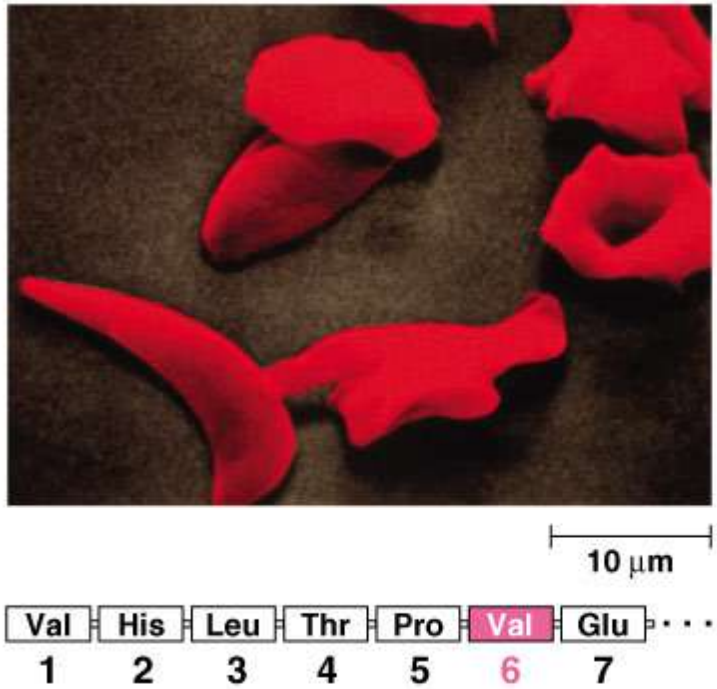
Primary (1’) sequence



Primary Structure is IMPORTANT

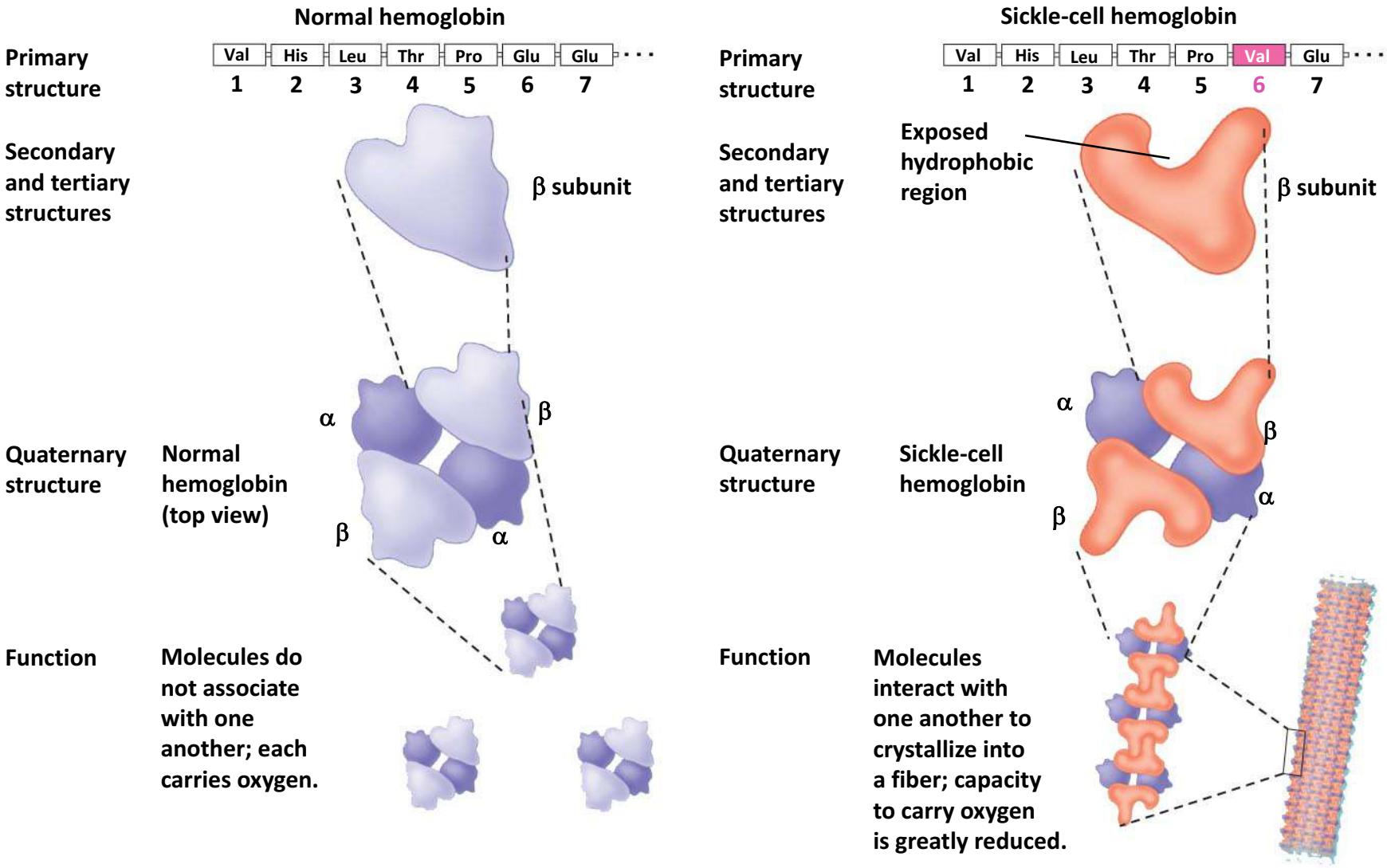


(a) Normal red blood cells and the primary structure of normal hemoglobin

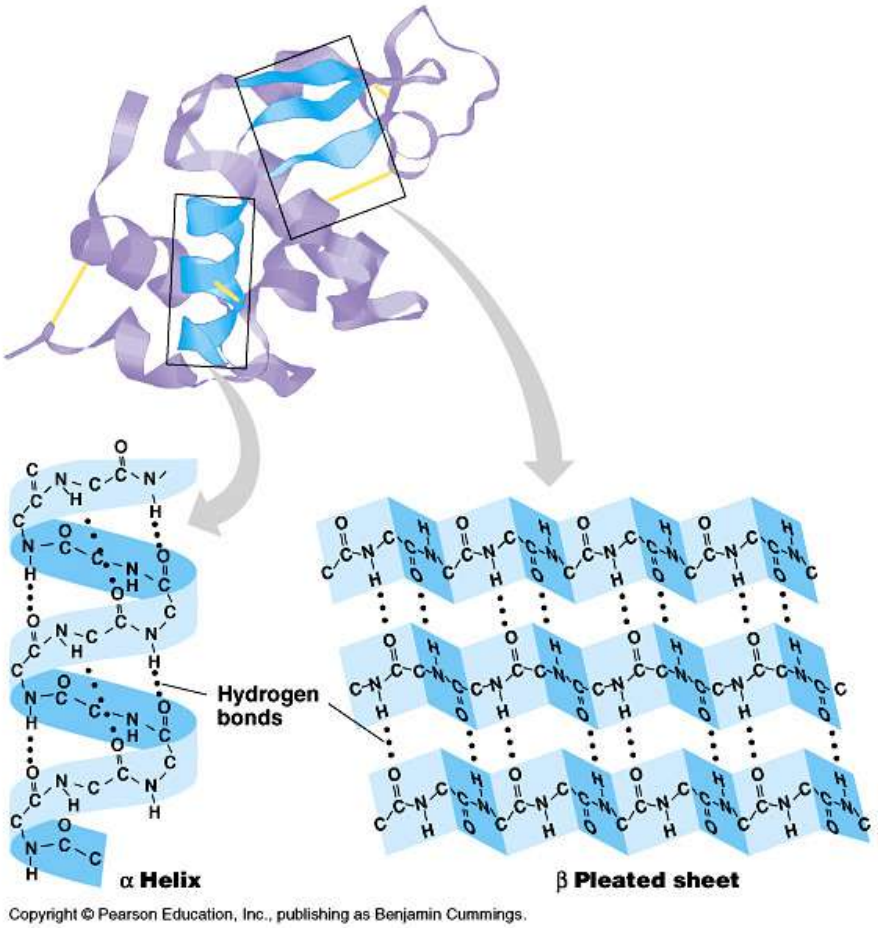


(b) Sickled red blood cells and the primary structure of sickle-cell hemoglobin

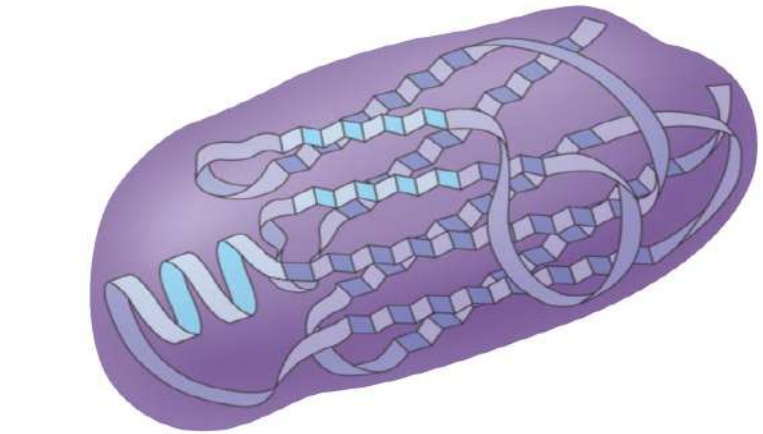
Sickle Cell and Oxygen transport

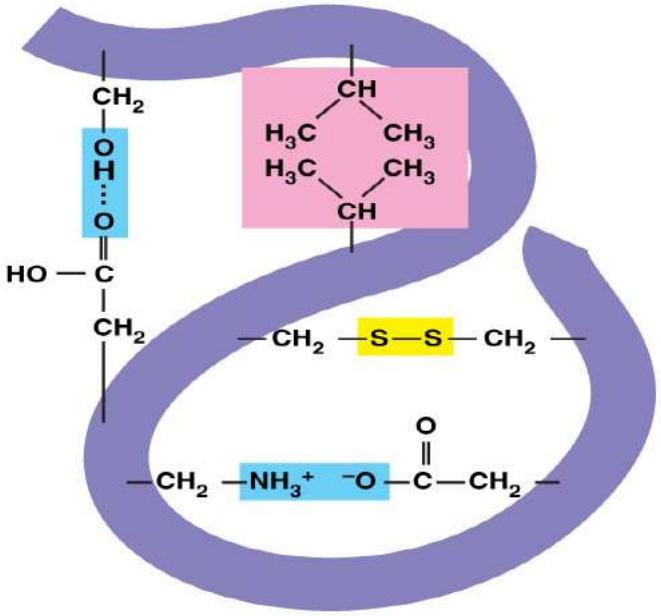


2’ structure

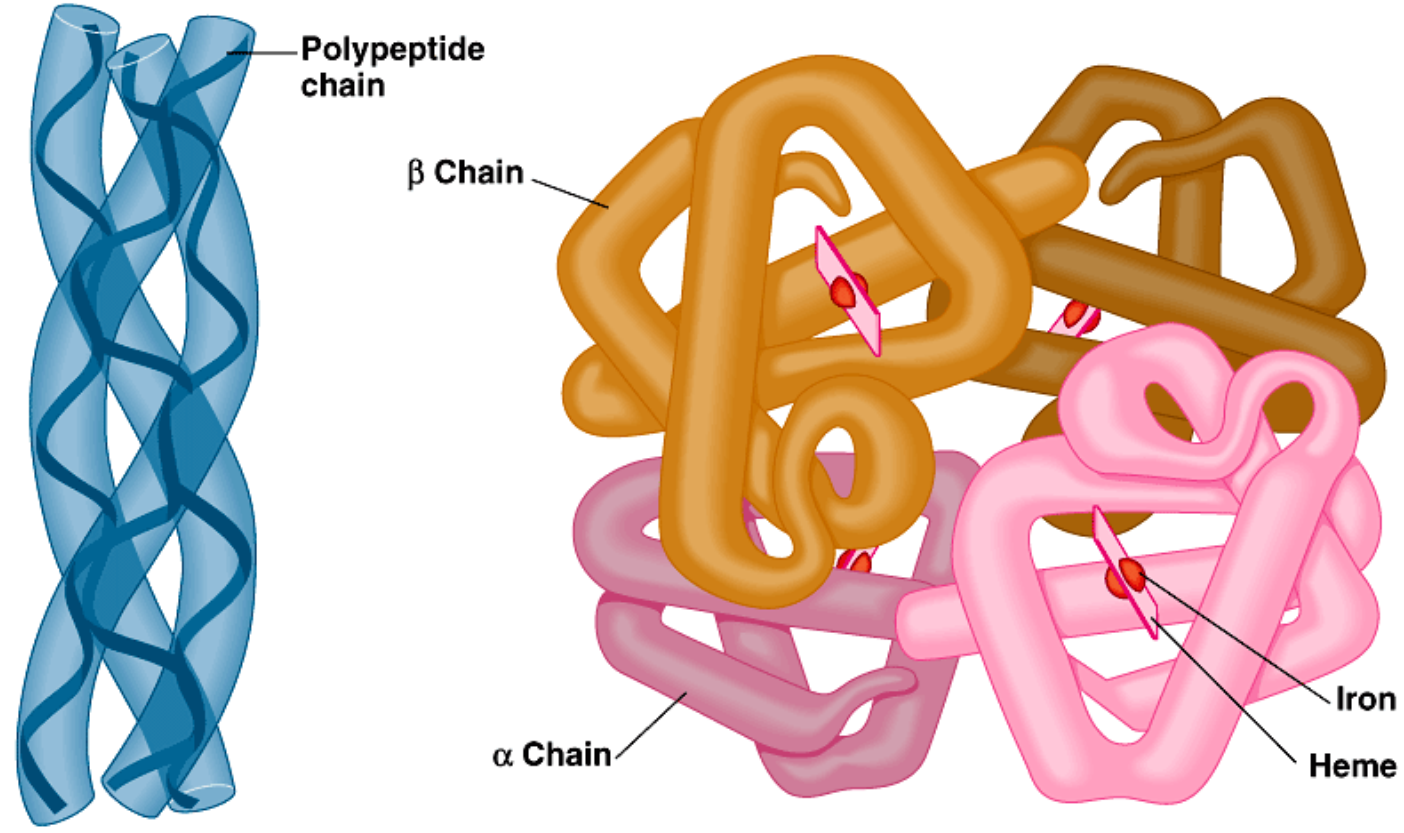


3’ Structure

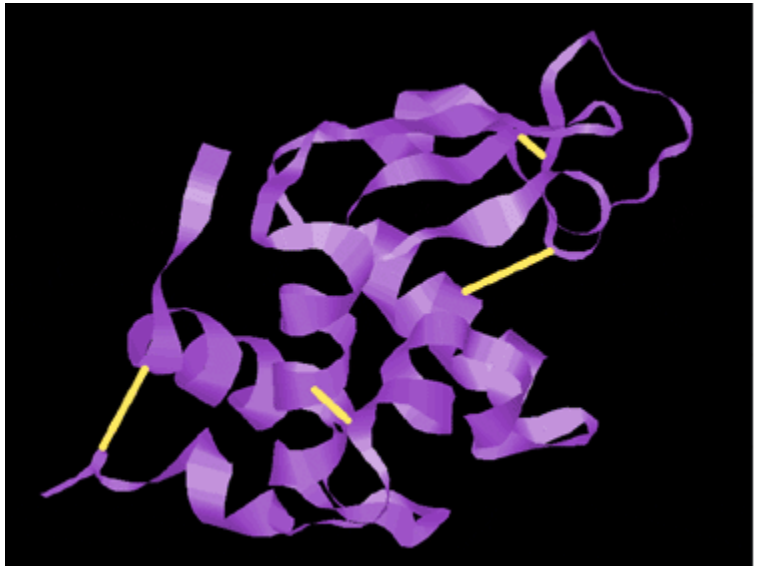


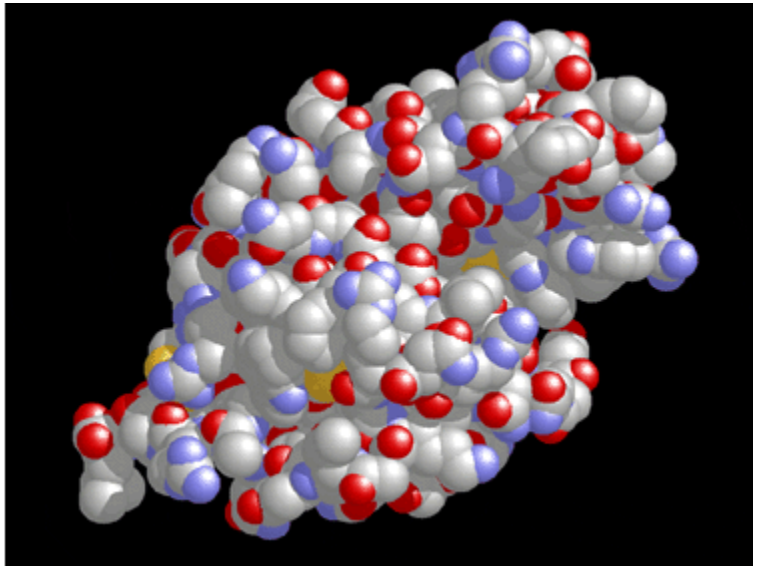


4’ Structure

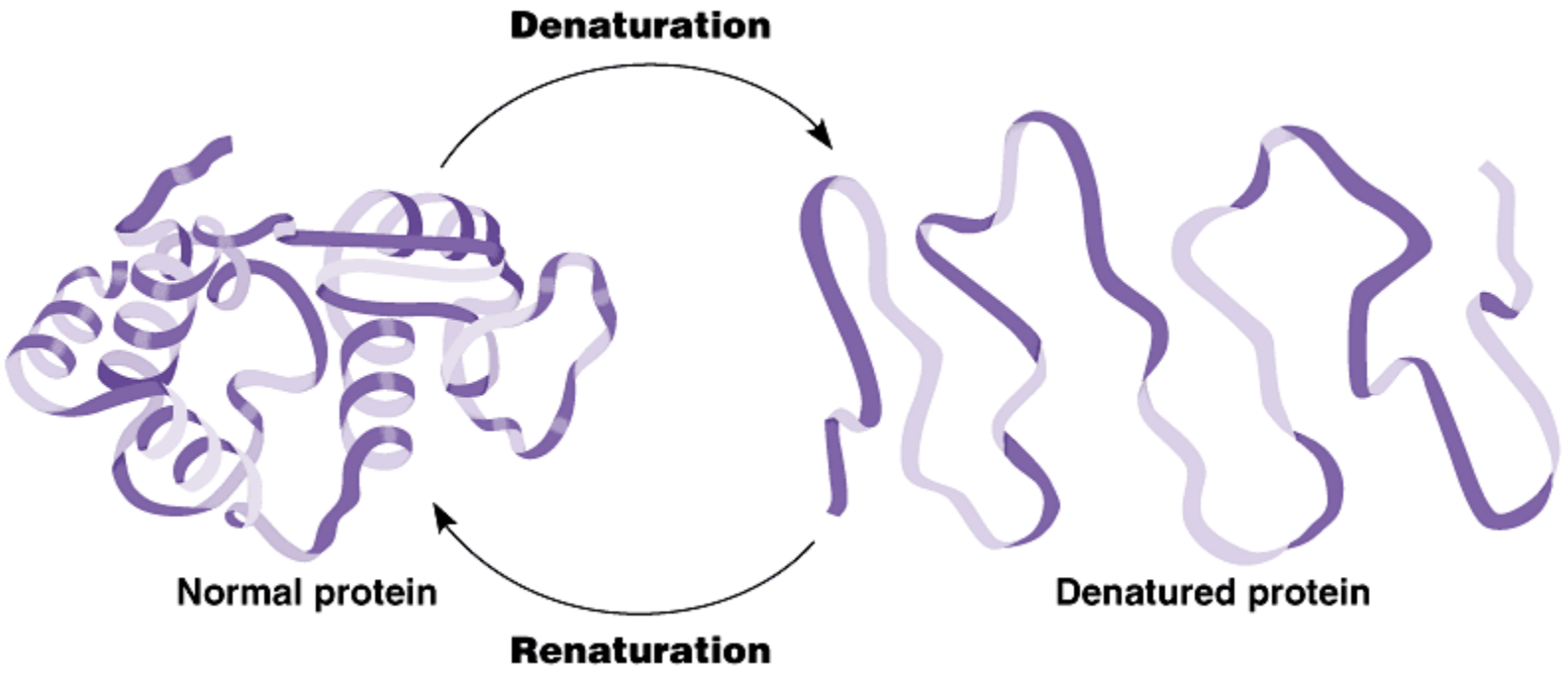


Protein's Natural Form

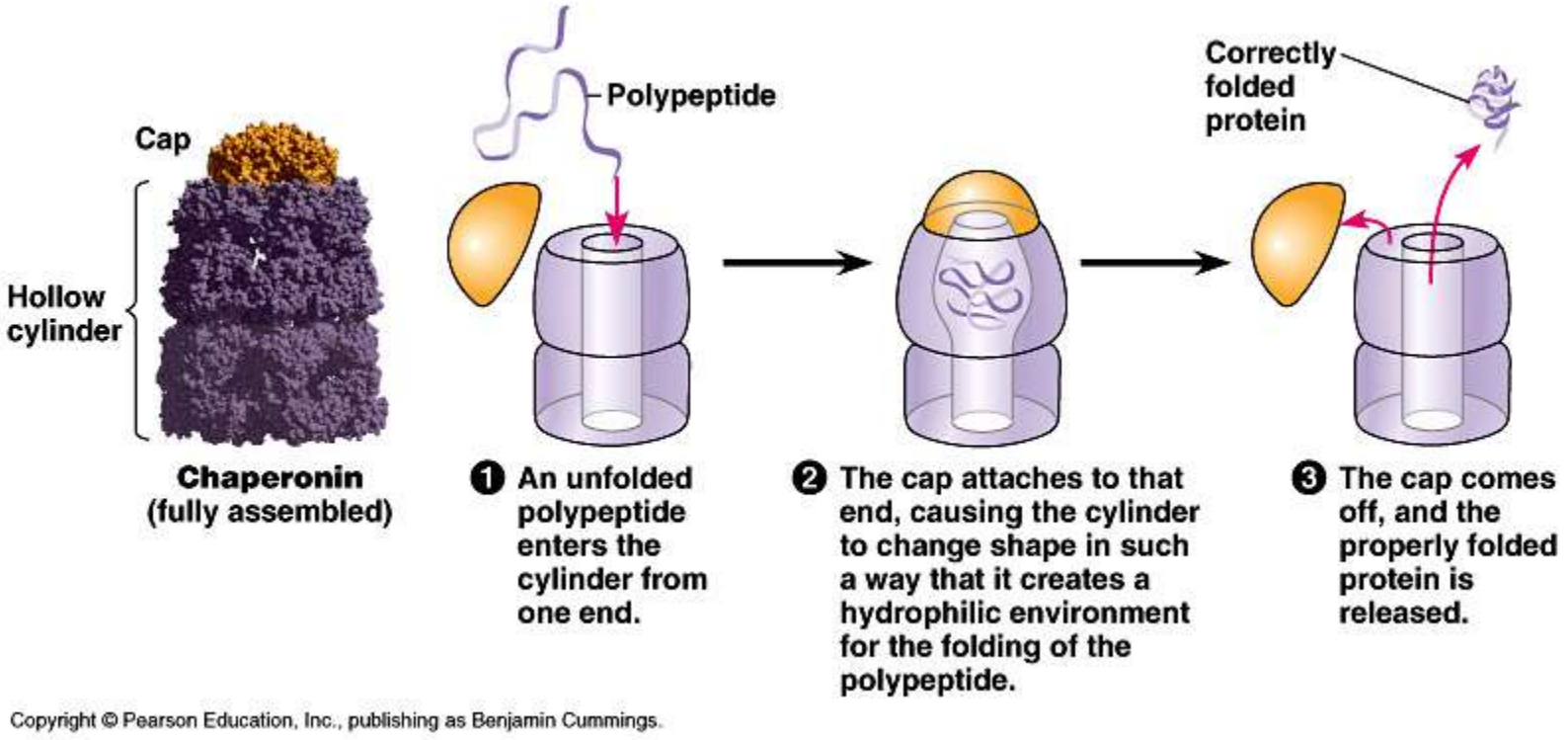




Denaturation of a protein



Chaperonin



Nitrogen Cycle and Proteins