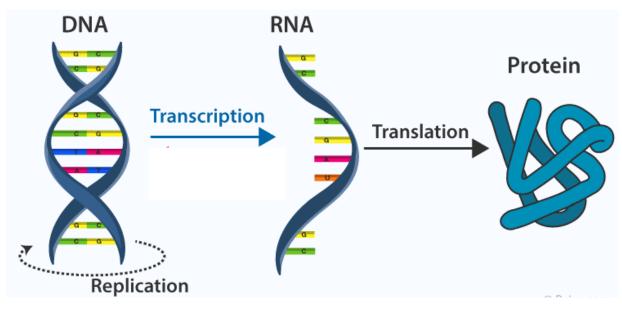
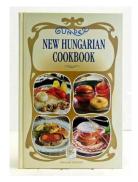
Lesson 15 -Folding

02/15/2021

Central Dogma





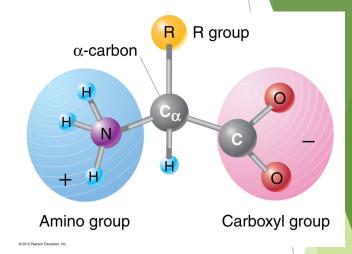




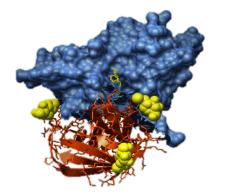
Amino Acids

Amino Acid = monomer of proteins

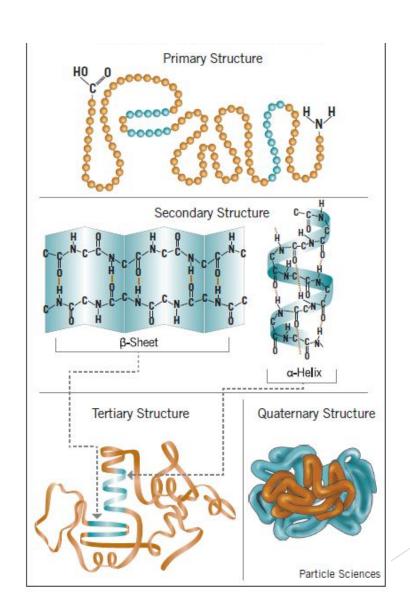
20 naturally occurring AAs



Protein = macromolecules within biological systems that are responsible for functioning



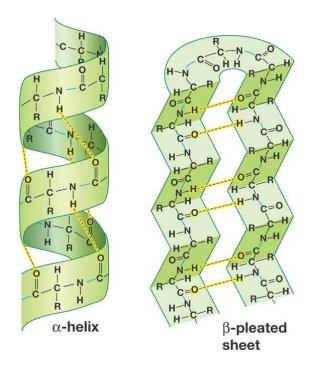
Protein Structure



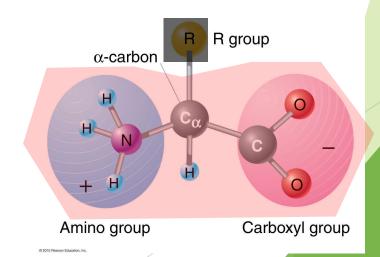
Secondary Structure

α-helix: Met, Ala, Leu, Glu, Lys (MALEK)

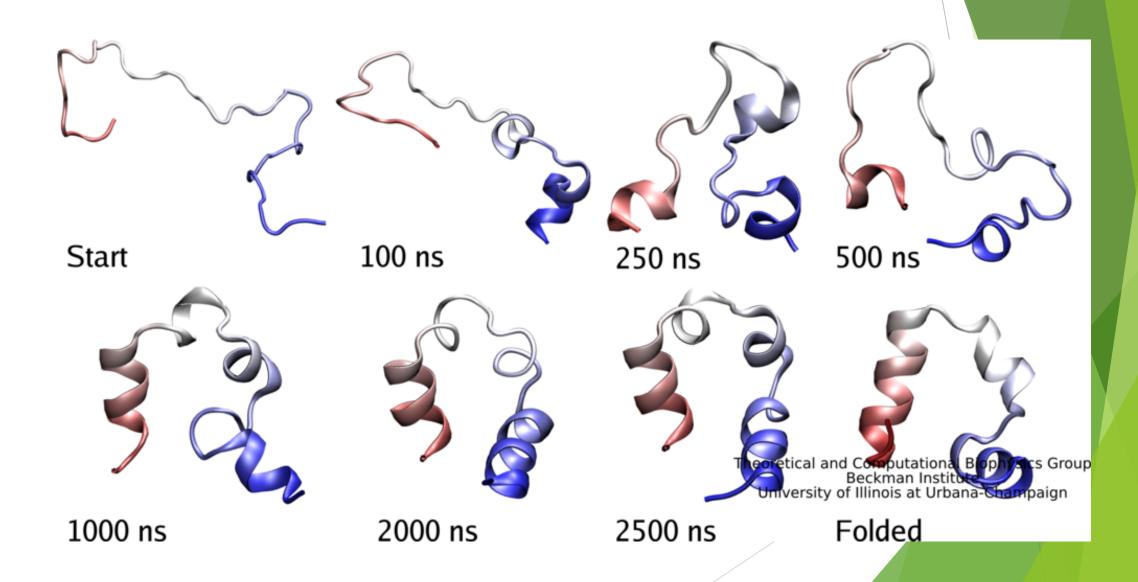
B-sheet: Tyr, Trp, Phe, Ile, Val, Thr



Due to _____ bonds between backbone atoms!!



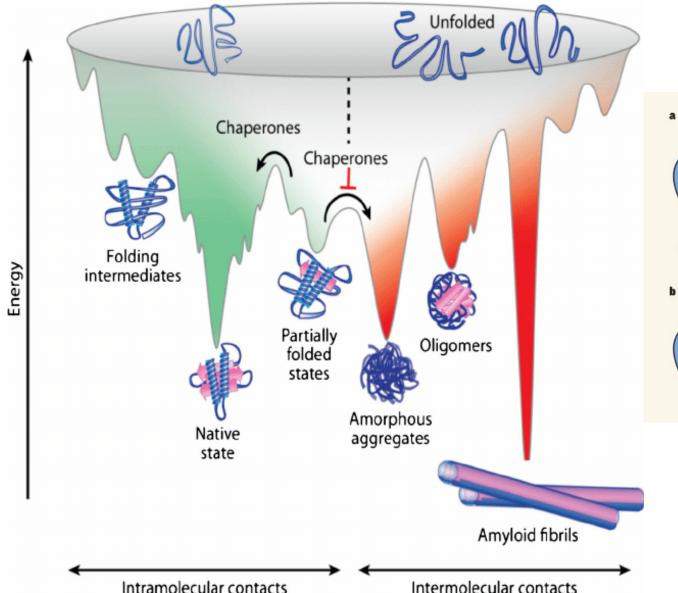
Protein Folding

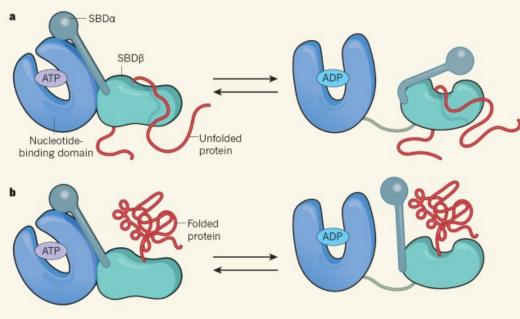


Protein Folding Unfolded Entropy 250 ns Start 100 ns Energy Molten globule 2000 ns 1000 ns 2500 ns Folded

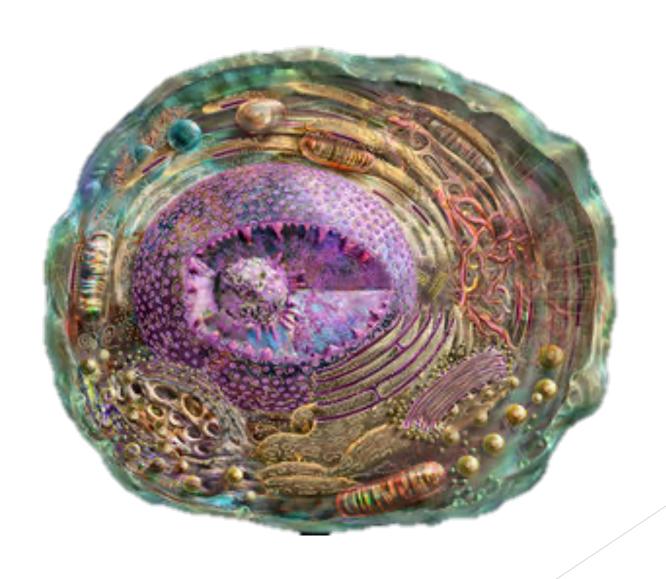
Native state

Protein Folding





Expression / Folding Activity



Expression / Folding Activity

