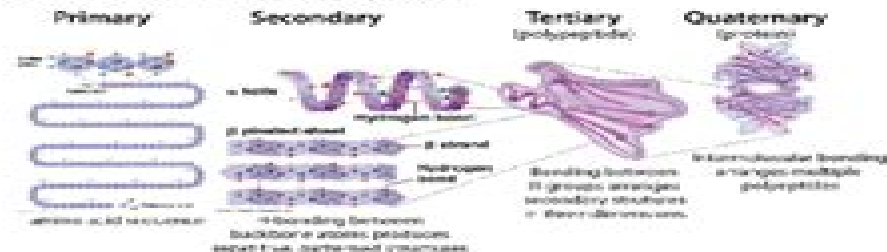


Unit 1 Lecture 4 - Proteins

• Proteins Structure

- Role of proteins in cell
 - Speed up chemical reactions, movement, structure, defense, communication, transport
- Globular vs Fibrous proteins
 - Globular – soluble (dissolved in bodily fluids), carry out tasks (Enzymes, carriers, transporters, signals, signaling receptors, motors, immunity)
 - Fibrous – not soluble (don't float around, instead form stable fibers), job is generally structural
- Polypeptides as polymers of amino acids
 - Long linear chains of amino acids
 - Polymer of amino acids
- Protein vs polypeptide
 - Biologically functional molecule composed of one or more polypeptides
- Protein 3D shape and function
 - Fold into 3d shape, the protein function depends on the ability to recognize and bind to another molecule through chemical interactions
- Amino Acids
 - General structure
 - Side chain (R "rest") – Variable, each type of amino acid has something different here
 - Common/Backbone – Central (α) carbon, amino group, carboxyl group, Hydrogen
 - Qualities of side chains (known as general classes, not individual amino acids)
 - Side chains vary by size, polarity, acidity
- Peptide bonds (covalent bond between two amino acids)
- Asymmetry of polypeptide chains
- Protein Folding
 - Primary Structure – linear sequence of amino acids
 - Bonds involved: covalent (peptide bonds) between N and C of backbone
 - Secondary Structure – H-bonds between backbone atoms of amino acids, not sidechains
 - Bonds involved: H-bonds between backbone atoms of amino acids, not sidechains
 - Regular sub-structures (α -helix, β -sheet)
 - Tertiary Structure – overall shape (3-D structure) arrangement of secondary structure
 - Bonds involved: covalent, ionic, hydrogen, hydrophobic, van der waals between side chain atoms
 - Quaternary Structure – arrangement of multiple polypeptides
 - Bonds involved: covalent, ionic, hydrogen, hydrophobic, van der waals between side chains of different polypeptides



Proteins Study Guide Answers

G Psacharopoulos



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