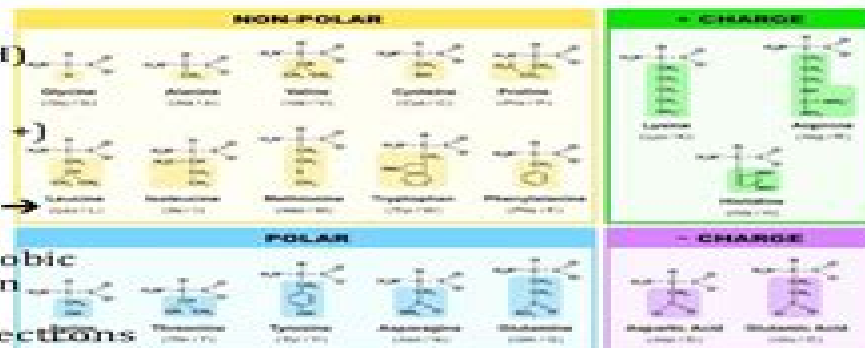
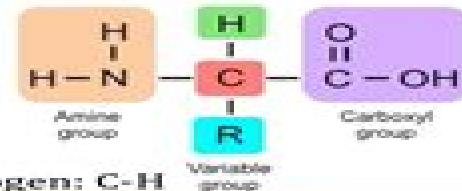


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UNIT 2

AMINO ACIDS

- Identify backbone
 - Same in every AA
 - 3 groups
 - Carboxyl: COO^- , COOH
 - Amino: NH_3^+ , NH_2
 - Central carbon (alpha) with a hydrogen: C-H
- ID type of side chain
 - Charged: $-$, $+$
 - Polar: S, O, N (SH, OH, NH)
 - Non-polar: CH
- Type of bonds
 - Charged: Ionic Bonds ($-$ to $+$)
 - Polar:
 - SH disulfide bond
 - OH, NH (uncharged) \rightarrow hydrogen bond
 - Non-polar: CH Hydrophobic
 - Forms core of protein
 - Aggregation
- How to break bonds
 - Heat Secondary, tertiary, and quaternary structures non-polar/hydrophobic bonds
 - Change in pH or Salt tertiary, quaternary structures ionic bonds, hydrogen bonds
 - Chemicals/Reducing agents Secondary, tertiary, and quaternary structures disulfide bonds
 - Enzymes or hydrolysis reaction Primary structure peptide bonds



PROTEIN STRUCTURE

- Primary, Secondary, Tertiary, and Quaternary



Primary structure

Linear sequence of amino acids



The primary structure of a protein is the linear sequence of amino acids. It is the most basic level of protein structure and is determined by the genetic code. The sequence of amino acids is linked by peptide bonds, which are covalent bonds formed between the carboxyl group of one amino acid and the amino group of another amino acid.

peptide bonds

Association of two or more polypeptides (some proteins only)



The quaternary structure of a protein is the overall three-dimensional shape of the protein, which is determined by the interactions between the side chains of the amino acids. It is the highest level of protein structure and is often stabilized by non-covalent bonds, such as hydrogen bonds and hydrophobic interactions.

Bio Chem Study Guide

Susan McMurry



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General, Organic, and Biochemistry Study Guide Marcia L. Gillette, Ira Blei, Wendy Gloffke, George Odian, 2006-01-27 This study guide provides reader friendly reinforcement of the concepts covered in the textbook Features include Chapter outlines Are you able to Worked text problems Fill ins Test yourself Concept maps Can also be used for Blei and Odian s Organic and Biochemistry *Biochemistry Basics* Milin Kurup, 2020-12-21 The Biochemistry Basics Biochemistry and Molecular Biology Study Guide was created by a renowned student from the University of Florida and includes all notes diagrams and study guides for all the important subjects covered in Biochemistry Molecular Biology Genetics and Microbiology Milin Kurup is a double major in B S Microbiology and Cognitive and Behavioral Neuroscience student from the University of Florida In addition to his degree Milin is a UF Biochemistry BCH4024 Study Instructor Group Leader a Microbiology MCB3020L Teaching Assistant a Genetics PCB4522 Teaching Assistant and a Neuroscience Research Assistant at the University of Florida While many of these classes cover high density material this study guide hopes to organize and condense the whole curriculum into short page review sheets In the author s time of instruction and study he organized a collection of all reactions mechanisms processes and concepts all studied in Biochemistry Genetics and Microbiology Overall this biochemistry study guide covers topics such as biomolecule structures Protein Carbohydrate Nucleic Acids and Lipids biomolecules function biomolecule metabolism Protein Metabolism Carbohydrate Metabolism Nucleic Acid Metabolism and Lipid Metabolism physiological biochemical relationships genetics and biological microbiological biochemical processes Overall the guide is organized into 1 3 page summaries of each specific topic and acts as a study guide for those who hope to study individual concepts in detail All sections include detailed diagrams color coded notes labeled illustration and detailed descriptions for effective comprehension In addition to class studies many students also have used this study guide as an MCAT review guide The short and condensed review pages have helped many student organize and categorize important topics as they continue to study for the MCAT Ultimately this organized set can be extremely useful for students review especially before class exams school projects standardized test and much more **General, Organic, and Biological Chemistry Study Guide and Selected Solutions** Karen C. Timberlake, 2001-11 Keyed to the learning goals in the text this guide is designed to promote active learning through a variety of exercises with answers and mastery exams The guide also contains complete solutions to odd numbered problems **Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition** John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter *The Absolute, Ultimate Guide to Lehninger Principles of Biochemistry 4e* Marcy Osgood, Karen Ocorr, 2005 This undergraduate textbook describes the structure and function of the major classes of cellular constituents and explains the physical chemical and biological context in which each biomolecule reaction and pathway operates The fourth edition adds a

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