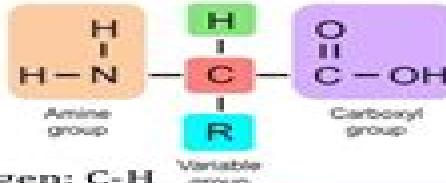


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UNIT 2

AMINO ACIDS

- Identify backbone
 - Same in every AA
 - 3 groups
 - Carboxyl: COO^- , COOH
 - Amino: NH_3^+ , NH_2
 - Central carbon (alpha) with a hydrogen: $\text{C}-\text{H}$



- ID type of side chain

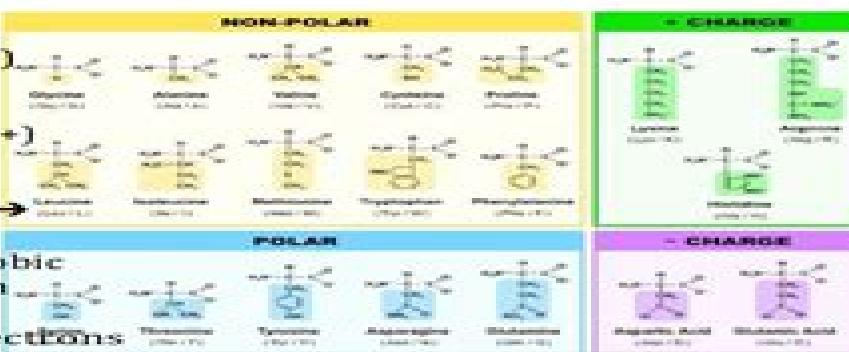
- Charged: -, +
- Polar: S, O, N (SH, OH, NH)
- Non-polar: CH

- Type of bonds

- Charged: Ionic Bonds (- to +)
- Polar:
 - SH disulfide bond
 - OH, NH (uncharged) → hydrogen bond
- Non-polar: CH Hydrophobic
 - Forms core of protein
 - Aggregation
- Covalent bonds: sharing of electrons
 - Peptide and disulfide bonds

- 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



Bio Chem Study Guide

Christopher K. Mathews, Harry Ako

Bio Chem Study Guide:

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 13 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 students 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.

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