

# Biochemistry Study Guide

- Monomers: stable molecule but readily bonds with other monomers
- Polymers: monomers in a chain formation of that group
- Dehydration synthesis: the reaction to build polymers from monomers (polymerization) (water molecule is released: H and OH that bonds)
  - Anabolic: build complex molecules from simpler ones => Endergonic (construction) => Consumption of Energy =>  $+\Delta G$  => Nonspontaneous
- Hydrolysis: the reaction to break down polymers into monomers (water molecule is a reactant)
  - Catabolic: break down complex molecules to simpler ones => Exergonic (releasing energy from the energy stored in the bonds) => Release of Energy =>  $-\Delta G$  => Spontaneous
- Directionality influences the Structure and Function of the Polymer
  - Amino Acids: N-terminus and C-terminus determine from which side can more amino acids be added and thus the structure and function of the protein is influenced
  - Nucleic Acids: linear sequence of nucleotides that have ends, defined by the 3' hydroxyl and 5' phosphates of the sugar in the nucleotide. During DNA and RNA synthesis, nucleotides are added to the 3' end of the growing strand, resulting in the formation of a covalent bond between nucleotides.
- Uniqueness of Carbon:
  - Atom is small in size with the valence electrons close to the nucleus, so it creates stable bonds
  - 4 valence electrons allows it to bond up to 4 different elements
  - Multiple types of Carbon Bonds: C-C, C=C, C≡C, C≡C

Macromolecular Class	Elements in composition	Monomer (or subcomponents)	Polymer	Shape / structure	Biological function/s	Key example/s	Structure-function relationship example/s	Other notes or properties
Carbohydrates	CHO	monosaccharide	polysaccharide	(carbon) rings	Energy storage (long and short), structure	Cellulose, starch (lots of glucose), glycogen	Cellulose: Alpha Glucose chain is a rigid structure	Glycosidic bond Covalent bonds C-C Most end in -ose (classified by # of carbons)
Fats	CHO	Subcomponents: glycerol head and fatty acids	N/A	Starfish (fatty acids attached to glycerol head)	Long term energy storage, insulation/cushioning, membranes	Saturated fats, unsaturated fats, phospholipids	Phospholipids (amphipathic) = spherical membranes	Ester Linkage bond Nonpolar

# Biochemistry Study Guides

**Denise Guinn, Rebecca Brewer, Rachel  
C. Lum**

## **Biochemistry Study Guides:**

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    Absolute, Ultimate Guide to Principles of Biochemistry Study Guide and Solutions Manual David L. Nelson, Michael M. Cox, 2017-01-01 Absolute Ultimate Guide to Principles of Biochemistry Study Guide and Solutions Manual

*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 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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