

Biochemistry Study Guide

(Be sure to know all underlined vocabulary and phrases!)

-Carbohydrates, Lipids, Proteins and Nucleic Acids are the 4 main macromolecules. See list of submacromolecules below.

<u>Macromolecules</u>	<u>Monomers</u>	<u>Functions</u>	<u>Examples</u>
<u>Carbohydrates</u> 	<u>Sugars</u> 	Store Energy Structural Material	 Potato
<u>Lipids</u> 	<u>Fatty acids</u> 	Store Energy Form Membranes Insulate	 Fat cells
<u>Proteins</u> 	<u>Amino acids</u> 	Enzymes Structural Material Regulate	 Muscle
<u>Nucleic Acids</u> 	<u>Nucleotides</u> 	Store genetic information	 DNA

-Carbohydrates, lipids, proteins, and nucleic acids are all organic. To be organic both Carbon (C) and Hydrogen (H) must be present.

-Remember to drink Hot Chocolate is a way of remembering the H and C that organic molecules must include.

-Carbohydrates are made of the elements CHO (CarbonHydrogenOxygen), Lipids are made of CHO (CarbonHydrogenOxygen) and Proteins are made of CHON (CarbonHydrogenOxygenNitrogen) and Nucleic Acids are made of CHONP (CarbonHydrogenOxygenNitrogenPhosphorus). Notice all contain Carbon and Hydrogen.

-Water (H₂O) is inorganic (not organic) because it doesn't have both Hydrogen (H) and Carbon (C). **The test makers often ask if water is organic (it isn't). **

-All 4 macromolecules have submacromolecules, which are known as building blocks. Building blocks are what each is made of.

-The building blocks of carbs are simple sugars, lipids are made of fatty acids, glycerol, proteins are made of amino acids, and nucleic acids are made of nucleotides. See list of building blocks below (monomers).

Biochemistry Helpful Guide

**Laurence Moran, Robert Horton, Gray
Scrimgeour, Marc Perry**

Biochemistry Helpful Guide:

Handbook of Biochemistry and Molecular Biology Roger L. Lundblad, Fiona Macdonald, 2018-06-14 Edited by renowned protein scientist and bestselling author Roger L Lundblad with the assistance of Fiona M Macdonald of CRC Press this fifth edition of the Handbook of Biochemistry and Molecular Biology gathers a wealth of information not easily obtained including information not found on the web Presented in an organized concise and simple to use format this popular reference allows quick access to the most frequently used data Covering a wide range of topics from classical biochemistry to proteomics and genomics it also details the properties of commonly used biochemicals laboratory solvents and reagents An entirely new section on Chemical Biology and Drug Design gathers data on amino acid antagonists click chemistry plus glossaries for computational drug design and medicinal chemistry Each table is exhaustively referenced giving the user a quick entry point into the primary literature New tables for this edition Chromatographic methods and solvents Protein spectroscopy Partial volumes of amino acids Matrix Metalloproteinases Gene Editing Click Chemistry

Handbook of RNA Biochemistry Roland K. Hartmann, Albrecht Bindereif, Astrid Schön, Eric Westhof, 2015-06-22 The second edition of a highly acclaimed handbook and ready reference Unmatched in its breadth and quality around 100 specialists from all over the world share their up to date expertise and experiences including hundreds of protocols complete with explanations and hitherto unpublished troubleshooting hints They cover all modern techniques for the handling analysis and modification of RNAs and their complexes with proteins Throughout they bear the practising bench scientist in mind providing quick and reliable access to a plethora of solutions for practical questions of RNA research ranging from simple to highly complex This broad scope allows the treatment of specialized methods side by side with basic biochemical techniques making the book a real treasure trove for every researcher experimenting with RNA

Annals of Clinical Biochemistry, 2007

Revue roumaine de biochimie, 1985

Biochemistry Abstracts, 1984

Study Guide for Principles of Biochemistry Laurence Moran, Robert Horton, Gray Scrimgeour, Marc Perry, 2011-10-25 No student should be without this helpful resource Contents include the following carefully constructed drill problems for each chapter including short answer multiple choice and challenge problems comprehensive step by step solutions and explanations for all problems a remedial chapter that reviews the general and organic chemistry that students require for biochemistry topics are ingeniously presented in the context of a metabolic pathway tables of essential data

The New Walford Guide to Reference Resources Ray Lester, 2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and

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Experiments and Methods in Biochemistry David Carrie Wharton,Richard E. McCarty,1972 *Annual Report* Hannah Dairy Research Institute, Kirkhill, Ayr,1930 **Cumulated Index Medicus** ,1998 *Physiology, Biochemistry and Pharmacology* Martinus Willem Woerdeman,1962 Principles of Biochemistry Geoffrey L. Zubay,William W. Parson,Dennis E. Vance,1995 Volume 1 Energy proteins and catalysis v 2 Metabolism v 3 Molecular genetics **Biochemistry and Cell Biology** ,1993 **The Lancet** ,1919 The Naturalist ,1920 **Naturalist** ,1919 Colour Atlas of Falcon Medicine Renate Wernery,2004-06-07 An overview of the most important diseases in falcons and birds of prey covering haematology viral bacterial fungal parasitic and other miscellaneous diseases Clinical symptoms are described as well as pathological and histological findings A separate chapter deals with the history of falconry and ongoing protection of the species

Wallerstein Laboratories Communications on the Science and Practice of Brewing Wallerstein Laboratories,1940
Indian Journal of Biochemistry & Biophysics ,1990

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