

Macromolecules Study Guide

Macromolecules Study Guide Answer Key

Carbohydrates

Function- provide quick energy for cells

Monomers- monosaccharides

Polymers- disaccharides, polysaccharides

Examples- glucose, cellulose, lactose

Making and Breaking Polymers

Dehydration synthesis-
Builds polymers from monomers by removing the equivalent of a water molecule.
*synthesis = to make
Hydrolysis-
Breaking polymers by adding water
*lysis = break

Proteins

Function- structure, speed of chemical reactions, transport materials

Monomers- amino acids

Polymers- polypeptides, held together by peptide bonds

Examples- enzymes, protein pumps, keratin, hemoglobin

Lipids

Function- store energy long term

Monomers- glycerol and fatty acids

Polymers- triglycerides

Examples- fats, oils, waxes, steroids, cholesterol

Nucleic acids

Function- store and transmit genetic information

Monomers- nucleotides

Polymers- nucleic acids

Examples- DNA, RNA

Levels of Protein Structure

Primary- order of amino acids

Secondary- alpha helix or beta pleated sheet

Tertiary- 3D folded protein

Quaternary- more than one polypeptide chain

Macromolecules Study Guide

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Macromolecules Study Guide:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR *Life Study Guide* David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **AP Biology Study Guide** Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **Study Guide for Use with Biology for the Informed Citizen** Sharon Gilman, 2014-01-14 Designed to work with Biology for the Informed Citizen by Donna M Bozzone and Douglas S Green this Study Guide provides students with brief summaries and step by step analyses of each chapter additional review questions and thoughtful advice and study tips The Study Guide is authored by Sharon Gilman who is also the author of the book s test item file a resource for instructors that includes over 1200 questions for easy student evaluation **"O" Level Study Guide - Chemistry Quite Easily Done , Organic Chemistry Study Guide** Robert J. Ouellette, J. David Rawn, 2014-11-04 Organic Chemistry Study Guide Key Concepts Problems and Solutions features hundreds of problems from the companion book Organic Chemistry and includes solutions for every problem Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject Organic chemistry is a constantly evolving field that has great relevance for all scientists not just chemists For chemical engineers understanding the properties of organic molecules and how reactions occur is critically important to understanding the processes in an industrial plant For biologists and health professionals it is essential because nearly all of biochemistry springs from organic chemistry Additionally all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry Organic chemistry like any skill is best learned by doing It is difficult to learn by rote memorization and true

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TOC AIPVT Solved Paper 2021 2018 Physics Chemistry Botany Appendix

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Summary & Study Guide - Brain Storms Lee Tang,2017-03-13 Comprehensive Review of Parkinson s Disease This book is a summary of Brain Storms My Fight Against Parkinson s and the Race to Unlock the Secrets of One of the Brain s Most Mysterious Diseases by Jon Palfreman When award winning science journalist Jon Palfreman investigated a group of drug addicts who mysteriously ended up with Parkinson s like symptoms he never imagined that 25 years later he would contract the disease himself Parkinson s is a progressive neurodegenerative disorder Currently about seven million people globally and one million Americans have Parkinson s with 60 000 new U S cases each year Parkinson s is a disease that has entranced doctors and scientists for two centuries since the British physician James Parkinson described its symptoms in 1817 In Brain Storms Palfreman chronicles the scientific history of the race to unlock the secrets of the disease It is a story of many twists and turns It turns out that the classic motor symptoms of Parkinson s disease tremors rigidity slowness of movement and postural imbalance are just the tips of a clinical iceberg This means that in addition to movement problems people with Parkinson s disease have to cope with a wide range of adverse symptoms from constipation to dementia The disease can be caused by environmental toxins And some forms of the disease can be passed on to future generations Out goes the old dopamine centered theory of the disease which was introduced in the late 1960s And in comes a new theory about the disease that may offer the possibility of disease modifying therapy Read this book to get an up to date review of this mysterious disease This guide includes Book Summary helps you understand the key concepts Online Videos cover the

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Notebook On Structural Biology Techniques: Study Guide For Practitioners Ipsita Banerjee,2025-05-29 This book describes the basic techniques required in learning structural biology Apart from the classical and standard approaches like X ray crystallography and SAXS small angle X ray scattering it has quite an extensive chapter on the most recent approach namely cryo Electron Microscopy The material is partly pedagogical allowing readers to learn the subject including some advanced topics The application of these techniques to a specific example Ribonucleotide Reductase is discussed At the end there is a detailed Mathematical Supplement broken into six sections that develop from basic principles the various mathematical machinery needed to learn the techniques of structural biology It elaborates on the

key mathematical concepts mentioned in the various chapters Additionally there is a collection of Ipsita s papers highlighting her seminal contributions especially in the data processing of cryo EM

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