

Biochemistry ACS Study Guide

What are Nucleotides?

Nucleotides are the monomer unit for nucleic acids and are *composed of nitrogenous base, 5-carbon sugar and a phosphate group.*

Nucleic acids are biopolymers of: nucleotide monomers

- DNA (MORE STABLE): carrier of genetic information; double-stranded
 - RNA (LESS STABLE) : intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded (usually).
 - Types of RNA:
 - tRNA: transfer RNA, holds amino acids used in protein synthesis, remember WOBBLE POSITION(Inosine)!
 - rRNA: ribosomal RNA, part of the ribosome
 - siRNA: small interfering RNA, short term silencing of pleiotrophin coding genes, targets mRNA for degradation
 - miRNA: micro RNA, silencing and post-transcriptional regulation of gene expression.
- etc. serve a wide array of different purposes (esp. Compared to DNA). Can also catalyze reactions (Ribozyme).

Nitrogenous Bases:

Use resonance to help to differentiate between all four: If needed nitrogen will donate!

- Purines (2 rings: pyrimidine and imidazole) - Adenine, Guanine are purines derivatives in nucleic acid

Purines



- Pyrimidines (one ring) - Cytosine, Thymine, and Uracil (in RNA only) are pyrimidine derivatives in nucleic acid



- A-T/U bond has 2 H-bonds
- G- C bond has 3 H-bonds

Study Guide For Biochem Acs Exam

Henry Pettus Randall



Study Guide For Biochem Acs Exam:

Catalogue University of California, Santa Cruz, Mayo Clinic Critical and Neurocritical Care Board Review Rodrigo Cartin-Ceba, William D. Freeman, Alice Gallo de Moraes, Richard A Oeckler, 2025-07-28 This book provides a comprehensive review of critical care medicine to assist in preparation of the neurocritical care and general critical care boards Subject Guide to Books in Print, 2001 *Official Guide to Catholic Educational Institutions and Religious Communities in the United States*, 1963 **Issues in Education by Subject, Profession, and Vocation: 2013 Edition**, 2013-05-01 Issues in Education by Subject Profession and Vocation 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Health Education Research The editors have built Issues in Education by Subject Profession and Vocation 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Health Education Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Education by Subject Profession and Vocation 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **The Official Guide to Catholic Educational Institutions and Religious Communities in the United States**, 1971 **Preparing for Your ACS Examination in Biochemistry - the Official Guide** Kristen Murphy, Olga Michels, Kyle Willian, 2025-11 *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 Who's who Among Students in American Universities and Colleges, 2001 Supplement to Who's who in America, 1987 *Veterinary Toxicology* Ramesh C Gupta, 2011-04-28 Veterinary Toxicology 2nd edition is a unique single reference that teaches the basic principles of veterinary toxicology and builds upon these principles to offer an essential clinical resource for those practicing in the field This reference book is thoroughly updated with new chapters and the latest coverage of topics that are essential to research veterinary toxicologists students professors clinicians and environmentalists Key areas include melamine and cyanuric acid toxicogenomics veterinary medical geology toxic gases toxicity and safety evaluation of new veterinary pharmaceuticals and much more The 2nd edition of this popular book represents the collective wisdom of leading contributors worldwide and continues to fill an undeniable need in the literature relating to veterinary toxicology New chapters covering important and timely topics such as melamine and cyanuric acid toxicogenomics toxic gases and veterinary medical geology Expanded look at international topics such as epidemiology of animal poisonings regulatory guidelines and poisonous plants in Europe

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