

Study Guide: DNA, RNA, and Proteins

1. What is the structure of DNA called? **Double Helix**
2. What is the relationship between DNA, genes & chromosomes?
Chromosomes are made of DNA, and Genes are small pieces of DNA.
3. Explain the contributions of the following scientists: Watson & Crick, & Rosalind Franklin.
 - a. **Watson & Crick- discovered the structure**
 - b. **Franklin- made the first picture.**
4. What are the complementary base pairs in DNA? Write the 1 letter symbol & spell them out.
 - a. **A-T; C-G**
5. What are the complementary base pairs in RNA? Write the 1 letter symbol & spell them out.
 - a. **A-U; C-G**
6. Use a chart to compare and contrast RNA and DNA in terms of structure, sugars, and bases.

	DNA	Both	RNA
Structure	2 strands	Made of Nucleotides	1 strand
Sugar	Deoxyribose		Ribose
Bases	A-T, C-G		A-U, C-G

7. List the three types of RNA and explain the function of each.
 - a. **mRNA:** carries the DNA message from the nucleus to the cytoplasm (codon)
 - b. **rRNA:** combines with proteins to form the ribosome
 - c. **tRNA:** carries amino acids to the ribosome so that proteins can be made (anticodon)
8. Who discovered the structure of DNA?
 - a. **Watson and Crick**
9. If a sequence of codons on a DNA strand is AAC TAG GGT, what is the corresponding sequence in a strand of mRNA? What tRNA sequence would pair up to this mRNA?
 - a. **mRNA: UUG AUC CCA tRNA: AAC UAG GGU**
10. What is the process by which a DNA molecule is copied?
Replication
11. Draw & label the 3 parts of a nucleotide.
 - a. **Sugar, nitrogenous bases, & phosphate group**

Dna And Protein Synthesis Review Guide

Kenneth W. Raymond



Dna And Protein Synthesis Review Guide:

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change *DHHS Publication* ,1980

Human Genetics, Informational and Educational Materials National Clearinghouse for Human Genetic Diseases (U.S.), Human Genetics ,1980 **OCR Gateway GCSE 9-1 Biology All-in-One Complete Revision and Practice: Ideal for the 2024 and 2025 exams (Collins GCSE Grade 9-1 Revision)** Collins GCSE, 2020-09-01 Exam Board OCR Gateway Level GCSE Grade 9 1 Subject Biology First Teaching September 2016 First Exams June 2018 Suitable for the 2020 autumn and 2021 summer exams **Prentice Hall Science** Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 Media Review Digest, 1982 C. Edward Wall, 1982 **Technology in the Curriculum: Science resource guide** ,1986 National Library of Medicine Audiovisuals Catalog National Library of Medicine (U.S.), **Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02 *Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e* Kenneth W. Raymond, 2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond's text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry Biology ,1996 *Bibliography of Medical Reviews* ,1971 **Student Study Guide** Liebaert, 2002-08 by Richard Liebaert Linn Benton Community College Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide A wide range of questions and activities help students test their understanding of biology The Student Study Guide also includes references to student media activities on the Campbell Biology CD ROM and Web Site **Media Review** ,1980 *Bowker's Complete Video Directory 2001* ,2001 **Film and Video Finder**, 1997 ,1997 **Student Guide for Cycles of Life** Gerald L. Kellogg, 2006 *The Author's Guide to Biomedical Journals* ,1994

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