

# 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**

# Chapter 1rna And Protein Synthesis Answers

**Gerald James Stine**



## Chapter 1rna And Protein Synthesis Answers:

**The I Ching and the Genetic Code - Part 1** John C. Compton,2022-08-19 This book shows that there is a direct mathematical and biological relationship between the I Ching The Chinese book of changes and the Genetic Code The content material shows and demonstrates the use of the Ancient Asiatic formulative system of philosophical thinking that governed the lives of the ancient Chinese scribes

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**Concepts and Problem Solving in Basic Genetics** Rowland H. Davis,Stephen G. Weller,1991

**Prentice Hall Science** Anthea Maton,Jill D. Wright,Jean Hopkins,Susan Johnson,David Lahart,Maryanna Quon Warner,1994

*Clinical Anatomy and Physiology for Veterinary Technicians - E-Book* Thomas P. Colville,Joanna M. Bassert,2023-02-03 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Nursing Technology Start your veterinary technician education off on the right foot with Clinical Anatomy and Physiology for Veterinary Technicians 4th Edition Combining expert clinical coverage with engaging writing and vivid illustrations this popular text is the key to understanding the anatomic and physiologic principles that will carry you throughout your career In addition to its comprehensive coverage of the diverse ways in which animal bodies function at both the systemic and cellular levels this textbook features a variety of helpful application boxes vocabulary lists and Test Yourself questions in every chapter to ensure you have a firm grasp of anatomic structure and its relevance to clinical practice Clinical Application boxes throughout the text demonstrate the clinical relevance of anatomic and physiologic principles Chapter outlines summarize the contents of each chapter at the major concept level Test Yourself questions recap important information that appeared in the preceding section Comprehensive glossary at the end of the text provides concise definitions and phonetic pronunciations of terms NEW and UPDATED Hundreds of high quality full color illustrations detail anatomic structures to enhance your understanding of their functions NEW Student chapter review questions on the Evolve companion website help reinforce key topics in each chapter

**Concepts of Biology XII , The Biology of Sexually Transmitted Diseases** Gerald James Stine,1992

Modules McDougal Littell Incorporated,2005

**Molecular Genetics** J. T. Hancock,1999 The Biomedical Sciences Explained Series has been designed specifically to meet the needs of today's undergraduates studying biomedical sciences Each volume in the series covers a key biomedical science topic enabling the

student to select the volumes required for their chosen topics and build up their own personal textbook in biomedical sciences Using the BMS Explained Series students can build up their own personal textbook in biomedical sciences written specifically for them rather than buying an all singing all dancing textbook which is too detailed when only studying a topic for one or two modules Each volume provides a core of knowledge from which the student can then go on to more advanced study in their chosen subject

*Introduction to Organic and Biological Chemistry* Michael S. Matta, Antony C. Wilbraham, Dennis D. Staley, 1996

*Essentials of Molecular Biology* George M. Malacinski, David Freifelder, 1998 Biological Sciences

*Acquired Immune Deficiency Syndrome* Gerald James Stine, 1996 The author provides an overview of the most important biological medical social and legal issues related to HIV infection HIV disease and AIDS

**Regulation of microRNAs** Helge Großhans, 2010-12-10 Given this pervasiveness and importance of miRNA mediated gene regulation it should come as little surprise that miRNAs themselves are also highly regulated However the recent explosion of knowledge on this topic has been remarkable providing a primary motivation for publication of this book As miRNAs are transcribed by RNA polymerase II the enzyme that also generates mRNAs it was perhaps not unexpected that miRNA transcription would be subject to regulation and we have willfully omitted this aspect from this monograph However what has been unexpected is the extent of post transcriptional regulation of miRNAs that is illustrated in this book

**General, Organic, and Biological Chemistry** John R. Amend, Bradford P. Mundy, Melvin T. Arnold, 1990 Very Good No Highlights or Markup all pages are intact

*Biology* Timothy Metz, 1999 Maintains a unique balance of emphasizing concepts without sacrificing scientific accuracy Provides illustrations process art and photographs to help readers visualize complex biological processes and to show clearly how the various stages of a dynamic process in biology unfold

**Workshop on Mechanisms and Prospects of Genetic Exchange, Berlin, December 11 to 13, 1971** Gerhard Raspé, 1972

**Biology** Villee, 1985-05

*Molecular Biology and Biotechnology* C. A. Smith, E. J. Wood, 1991-12-15 This series is designed for junior undergraduates and diploma students in all biological sciences covering the field of modern biochemistry and integrating animal plant and microbial topics This volume focuses on the nature and behaviour of genetic material

**Principles of Virology** S. Jane Flint, 2004 Completely revised and updated to reflect important advances in the field Principles of Virology Second Edition continues to fill the gap between simple introductory texts and very advanced reviews of major virus families introducing upper level undergraduates graduate students and medical students to all aspects of virology The second edition retains all of the defining and much praised features of the first edition focusing on concepts and principles and presenting a comprehensive treatment from molecular biology to pathogenesis and infection control Written in an engagingly readable style and generously illustrated with over 400 full color illustrations this approachable volume offers detailed examples that illustrate common principles specific strategies adopted by different viruses to ensure their reproduction and the current state of virology research The book is divided into chapters that focus on specific topics rather than individual viruses and allows the

student to visualize common themes that cut across virus families emphasizing the shared features of different viruses Drawing on the extensive teaching experience of each of its distinguished authors Principles of Virology illustrates why and how animal viruses are studied and demonstrates using well studied systems how the knowledge gained from such model viruses can be used to study viral systems about which our knowledge is still quite limited A thorough introduction to principles of viral pathogenesis a broad view of viral evolution a discussion of how viruses were discovered and how the discipline of virology came to be are also provided A variety of special boxes highlight key experiments background material caveats and much more The text focuses on concepts and principles and covers not only aspects of molecular biology but also pathogenesis evolution emergence and control and will also be a valuable resource for practicing physicians and scientists New in the Second Edition Completely revised pathogenesis chapters Pathogenicity Snapshots an appendix highlighting teaching points for major viral diseases Expanded appendix on viral life cycles New chapter on viral genomes and coding strategies Detailed glossary Expanded references after each chapter new textboxes

**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

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