

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**

Genes Dna Proteins Answer Key

**William K. Purves, David
Sadava, Gordon H. Orians, H. Craig
Heller**



Genes Dna Proteins Answer Key:

DNA-Protein Interactions Marcos Simoes-Costa, 2022-11-25 This volume details protocols emphasizing systems level approaches that can be applied to genomic analyses Chapters detail techniques for optimized application in in vivo systems spatial physiological environmental contexts imaging based techniques single molecule approaches CRISPR systems new genomic approaches and measurements of kinetics governing Written in the format of the highly successful *Methods in Molecular Biology* series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge *DNA Protein Interactions Methods and Protocols* aims to present genome wide techniques that will complement the biochemistry based protocols to aid researchers in their studies Genetics? No Problem! Kevin O'Dell, 2017-02-27 Shortlisted for the HE Bioscience Teacher of the Year Award 2019 Kevin O Dell Author of *Genetics No Problem* The analysis and interpretation of data is fundamental to the subject of genetics and forms a compulsory part of the undergraduate genetics curriculum Indeed the key skills that a genetics student requires are an ability to design and understand experimental strategies and to use problem solving skills to interpret experimental results and data *Genetics No Problem* provides students with a graded set of problems that aim to enthuse challenge and entertain the reader The book is divided into three sections introductory intermediate and advanced each with 10 problems For first level students there will be short genetics problems embedded in a wide range of scenarios such as murder mysteries As the book progresses the stories will get longer and the science will get progressively more complex to challenge final year students and enable the reader to identify genetic disease in obscure organisms as well as designing and testing treatments and cures *Genetics No Problem* Takes a unique innovative approach that provides students with a set of graded problems designed to develop both their skills and their ability to tackle problems with confidence Includes problems embedded in a narrative written in an interesting informative and entertaining style by an Author with a proven track record in teaching research and communication Is well illustrated in full colour throughout The book will prove invaluable to all students of genetics across a range of disciplines needing to get to grips with the analysis and interpretation of data that is fundamental to the subject

Fundamental Molecular Biology Lizabeth A. Allison, 2021-07-07 *Fundamental Molecular Biology* Discover a focused and up to date exploration of foundational and core concepts in molecular biology The newly revised Third Edition of *Fundamental Molecular Biology* delivers a selective and precise treatment of essential topics in molecular biology perfect for allowing students to develop an accurate understanding of the applications of the field The book applies the process of discovery observations questions experimental designs results and conclusions with an emphasis on the language of molecular biology Readers will easily focus on the key ideas they need to succeed in any introductory molecular biology course *Fundamental Molecular Biology* provides students with the most up to date techniques and research used by

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NEET PG - Biochemistry (Question Bank 3300 MCQs Chapterwise) Mocktime Publication, NEET PG Biochemistry

Question Bank 3300 MCQs Chapterwise NEET PG Syllabus NEET PG Exam Pattern NEET PG Previous Papers *Life, Part 2: Information and Heredity* William K. Purves, David Sadava, Gordon H. Orians, H. Craig Heller, 2004-08-24 **Genetic**

Response to Metals Sarkar, 1995-04-19 Based on the First International Symposium on Metals and Genetics held recently at the Hospital for Sick Children in Toronto Ontario Canada The only book of its kind to focus on the effects of metals on DNA

Provides up to date information on new developments in the field and their wide ranging implications Discusses the molecular mechanisms of metal induced mutagenicity and carcinogenicity Fundamentals of Microbiology

Pommerville, 2017-05-08 Pommerville s Fundamentals of Microbiology Eleventh Edition makes the difficult yet essential concepts of microbiology accessible and engaging for students initial introduction to this exciting science **Fundamentals**

of Microbiology Jeffrey C. Pommerville, 2014-12 Ideal for health science and nursing students Fundamentals of Microbiology Body Systems Edition Third Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Highly suitable for non science majors the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable Unlike other texts in the field Fundamentals of Microbiology Body Systems Edition takes a global perspective on microbiology and infectious disease and supports students in self evaluation and concept absorption Furthermore it includes real life examples to help students understand the significance of a concept and its application in today s world whether to their local community or beyond New information pertinent to nursing and health sciences has been added while many figures and tables have been updated revised and or reorganized for clarity Comprehensive yet accessible the Third Edition is an essential text for non science majors in health science and nursing programs taking an introductory microbiology course Provided by publisher

DNA-Protein Interactions Tom Moss, 2001 Dr Tom Moss assembles the new standard collection of cutting edge

techniques to identify key protein DNA interactions and define their components their manner of interaction and their manner of function both in the cell and in the test tube The techniques span a wide range from factor identification to atomic detail and include multiple DNA footprinting analyses including in vivo strategies gel shift EMSA optimization SELEX surface plasmon resonance site specific DNA protein crosslinking and UV laser crosslinking Comprehensive and broad ranging DNA Protein Interactions Principles and Protocols 2nd Edition offers a stellar array of over 100 up to date and readily reproducible techniques that biochemists and molecular cellular and developmental biologists can use successfully today to understand DNA protein interactions

Algebraic Biology Hirokazu Anai,Katsuhisa Horimoto,Temur Kutsia,2007-08-13 This volume constitutes the refereed proceedings of the Second International Conference on Algebraic Biology The conference served as an interdisciplinary forum for the presentation of research on all aspects of the application of symbolic computation in biology including computer algebra computational logic and related methods Papers also examine solutions to problems in biology using symbolic methods

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