

Study Guide: Answer Key

Chapter 7: DNA Structure and Replication

Biologically Unique: How DNA helped free an innocent man

Driving Question 1:

What is the function of DNA, and how is DNA organized in cells?

Why should you care?

DNA is the hereditary molecule—passed from parents to offspring—that serves as the instruction manual for “building” each individual. DNA is found in the nucleus of almost every cell in our body. Forensic scientists can, therefore, collect DNA evidence from many different types of crime scene evidence, such as semen, saliva, skin cells, blood, and hair. This DNA can then be used to positively identify a perpetrator or exonerate accused suspects of a crime.

Roy Brown was convicted by junk science; the only “evidence” linking him to the crime was his teeth, and bite mark analysis is notoriously unreliable. Other types of physical evidence, such as hair samples examined under a microscope, are also problematic because they are not distinct enough to positively identify the individual from which they come. DNA is valuable in forensics because it is unique to each individual. DNA’s structure is the key to its uniqueness in each individual.

What should you know?

To fully answer this Driving Question, you should be able to:

1. Describe the origin and function of DNA.
2. Describe the location of DNA in eukaryotic cells.
3. Describe the structure of chromosomes.
4. Describe the number and origin of the chromosomes in human cells.

Infographic Focus:

The infographics most pertinent to the Driving Question are 7.1 and 7.2.

Test Your Vocabulary:

Match these terms to their definitions:

[DEOXYRIBONUCLEIC ACID (DNA)] The molecule of heredity, common to all life forms, that is passed from parents to offspring.

[CHROMOSOME] A single, large DNA molecule wrapped around proteins.

Chromosomes are located in the nuclei of most eukaryotic cells.

[NUCLEOTIDES] The building blocks of DNA. Each nucleotide consists of a sugar, a phosphate, and a base. The sequence of nucleotides (As, Cs, Gs, Ts) along a DNA strand is unique to each person.

1. Describe the origin and function of DNA.

Study Guide Modern Biology Ch 5 Answer

Chiras



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Modern Biology James Howard Otto,1985 **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 Study Guide for 31840 - Biology-First Edition Neil A. Campbell,1987 **Biology I** Alfred E. Zietlow,1963 **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 **Study Guide for Canadian Fundamentals of Nursing - E-Book** Patricia A. Potter,Anne G. Perry,Kyla C. Janzen,2016-08-05 Get the most out of your textbook with this helpful study tool Corresponding to the chapters in Potter and Perry s Canadian Fundamentals of Nursing 5th Edition this study guide helps you understand key nursing concepts with review questions exercises and learning activities Skills performance checklists on an Evolve companion website help you learn and master important nursing procedures Multiple choice review questions include matching short answer multiple choice and true false questions to evaluate your understanding and provide test taking practice Case studies show how key concepts from the text apply to real world clinical scenarios Critical Thinking Model exercises help you apply what you have learned in the case studies Skills performance checklists help you measure your mastery of important nursing procedures Comprehensive Understanding sections help you master the key topics and main ideas in each chapter Perforated pages are easy to tear out and hand in as homework assignments UPDATED skills performance checklists are now available on the Evolve companion website and are both interactive and printable **Study Guide for Psychology, Third Edition** Cornelius Rea,Don H. Hockenbury,Sandra E. Hockenbury,2002-08-02 New edition of the Hockenburys text which draws on their extensive teaching and writing experiences to speak directly to students who are new to psychology **Biology II** Alfred E. Zietlow,1963 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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reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students *Study Guide* Joan I. Senyk,Darrell D. Ebbing,1984

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