

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 Answer Key Biology

Dave Hayward

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Modern Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006-01-01 **RES Biology STAAR Study Guide Answer Key** Responsive Education Solutions,2014-03-01 Individual Biology STAAR Study Guide Answer Key

General Biology Study Guide for Biology 1010 - Answers - EBook Heather Wilson Ashworth,2015-08-06 **Catalog of**

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Science of Biology Kristine Nowak,Betty McGuire,Mark Sarvary,Laurel Hester,Joseph Bruseo,Thomas Koval,Edward Awad,Meredith Safford,2012-12-15 Revised for the Tenth Edition the Life Study Guide offers a variety of study and review tools The Big Picture provides the student with a quick overview of the chapter s main concepts and themes The Study Strategies section offers suggestions for the most effective ways to study the specific material in the chapter and points out areas students are most likely to find difficult The Key Concept Review section incorporates a review of each main section from the chapter with review questions that help the student apply what they have learned including diagram questions Each Study Guide chapter concludes with a Test Yourself section that allows the student to test their comprehension All questions include answers and explanations *Naval Training Bulletin ,1946* **AP Biology** Tamar Aprahamian,Robert Brucker,Sharon A. Wynne,2017-07-31 Prepare for the AP Biology Exam with the updated study guide from XAMonline This comprehensive study guide has been formatted to correspond to the four Big Ideas described by the College Board evolution energy information and systems Expert knowledge and real world scientific experience allowed the authors to not only

include the necessary review of the basic content but also the intertwined fundamental ideas underlying biology The full length practice tests have been designed to focus on complex questions that require critical thinking and problem solving similar to those on the actual AP Biology exam Highlights include 2 full length practice tests and answer keys End of chapter practice quizzes and answer keys Explanations for answers to all multiple choice and free response questions End of chapter summary and list of keywords for important concepts Illustrations throughout to give additional support to the learning experience

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