

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.

Modern Biology Study Guide Answer Key 6

Jin-Ying Zhang



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Educational Advisory Manual United States. War Department. Information and Education Division,1945 The Publishers' Trade List Annual ,1981 **A catalogue of modern works on science and technology. 2nd, 4th, 5th, 7th, 8th, 10th-14th, 16th-19th, 22nd-25th, 35th, 39th, ed** sir George Christopher T. Bartley,1881 **El-Hi Textbooks in Print** ,1981 El-Hi Textbooks and Serials in Print ,2006 Modern Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006-01-01 **Bookseller** ,1903 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series The Bookseller ,1903

Whitaker's Books in Print ,1998 *Children's Books in Print, 2007* ,2006 **Books in Print** ,1982 a catalogue of modern works on science and technology ,1887 **Subject Guide to Books in Print** ,2001 *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography,1978 **Books in Print Supplement** ,2002 **Children's Books in Print** R R Bowker Publishing,Bowker,1999-12 **The Bookseller** ,1952 U.S. Naval Training Bulletin ,1948 Medical and Health Care Books and Serials in Print ,1986 **Teacher's Wraparound Edition: Twe Biology Everyday Experience** Albert Kaskel,1994-04-19

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