

## 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 Answers

**LL Leslie**



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arithmetical value  $R_a$  in  $\mu\text{m}$  is assumed for roughness measurements  $R_t$  maximum value of roughness from the lowest to the highest point  $R_z$  average roughness in 10 points

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web  $R_t$   $R_{max}$  at jis 82 sum of height of the largest profile peak height  $R_p$  and the largest profile valley  $R_v$  within an evaluation length  $R_t$   $R_p$   $R_t$   $R_{max}$   $R_{pi}$   $R_{max}$   $R_{vi}$   $R_{zjis}$  ten point height of roughness profile  $R_z$  at jis 94 sum of mean value of largest peak to the fifth largest peak and mean value of largest valley to

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web  $R_{max}$  vertical distance from highest peak to lowest valley  $R_{max}$  is particularly sensitive to anomalies such as scratches and burrs that may not be obvious from measures such as  $R_a$  that rely on averages  $R_z$  preferred by many europeans  $R_z$  is often preferred to  $R_a$  in europe and particularly germany

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web  $R_z$   $m$   $i$   $n$   $3$   $8$   $R_a$   $0$   $95$   $R_z$   $m$   $a$   $x$   $14$   $5$   $R_a$   $0$   $75$  converting between  $R_a$  and  $R_z$  is not a good engineering practice it is always recommended to measure according to the method in which surface roughness is indicated on the drawing as you can see in the below graphs the inaccuracy grows in higher  $R_a$   $R_z$  values

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web oct 22 2021 a  $R_z$   $din$   $ra$   $7$   $2$   $R_z$   $iso$   $ra$   $7$   $6$   $ra$   $R_z$   $din$   $7$   $2$   $ra$   $R_z$   $iso$   $7$   $6$  san last name deleted for privacy by editor shanghai china publicly reply to san s post q convert  $R_z$  value to  $R_a$

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