

Section: The Structure of DNA

Read each question, and answer based upon what you learn in the section.

1. What did Griffith discover, what was his conclusion, as a result of his experiments?

Transformation; that genetic material can be transferred between bacteria. The foundation of heredity.

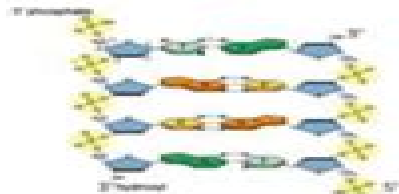
2. How did Avery discover that the material responsible for transformation in bacteria was DNA?

He performed Griffith's experiments, but with more precision.

3. Viruses that infect bacteria are called [bacteriophages / rough]. A virus is made of DNA and [proteins / cell walls]. Radioactive sulfur was used to label the [DNA / protein] in the viruses. Radioactive phosphorus was used to label the [DNA / protein] in the viruses. Hershey and Chase discovered that after the ^{32}P -labeled phages infected the bacteria, most of the radioactive phosphorus was found in the layer containing [bacteria / phage].
4. Hershey & Chase are given credit for discovering what? Discovering that DNA is the genetic material.
5. Describe each research group's contribution to the discovery of DNA's structure.
 - a. Chargaff: Base-pairing rules. A-T, C-G
 - b. Franklin & Wilkins: 1st x-ray diffraction image of DNA, give insight into structure.
 - c. Watson & Crick: Nobel prize-winning combo that 1st correctly predicted the structure of DNA

Match the letter of the phrase with the appropriate term

- | | |
|--------------------------------|---|
| 6. <u>h</u> double helix | a. a five-carbon sugar |
| 7. <u>d</u> nucleotides | b. type of weak bond between base pairs that holds the double helix together |
| 8. <u>a</u> deoxyribose | c. four kinds and they form specific pairs |
| 9. <u>b</u> hydrogen bond | d. subunits that make up DNA |
| 10. <u>c</u> nitrogenous bases | e. one of two pyrimidines used as a nitrogenous base in nucleotides |
| 11. <u>f</u> adenine | f. one of two purines used as a nitrogenous base in nucleotides |
| 12. <u>e</u> cytosine | g. discovered that the amount of adenine always equaled the amount of cytosine and that guanine always equaled cytosine |
| 13. <u>g</u> Chargaff | h. two strands of nucleotides twisted around each other |

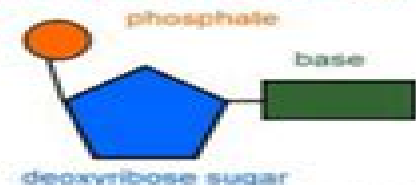


Describe each feature of DNA below

14. Complementary: one strand matches the other, not mirror images but fits together like hands.
15. Anti-parallel: the backbones are parallel but run in opposite directions, like a two-lane highway.
16. Backbone: outside regions of the molecule, composed of repeating molecules of phosphate groups and 5-carbon sugars
17. Nucleotides: subunits of nucleic acids. Made of a phosphate group, 5-carbon sugar,

and a nitrogen base.

18. Sketch a nucleotide.
19. Purines: category of nucleotide with 2-ringed nitrogenous bases A & G
20. Pyrimidines: category of nucleotide with 1-ring nitrogenous bases: T, C, & U
21. Hydrogen Bonds: the weak type of bond that holds the 2 strands of DNA together between the nitrogen bases.
22. Base-pairing rules: based off of Chargaff's rules. A double bonds with T, C triple bonds with G
23. 32% A \rightarrow %A = %T (32%), 100% - (%A + %T) = (%C + %G). 100% - 64% = 36%. \rightarrow 18% C & 18% G.



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Study Guide Section Dna Technology Answers

Liying Dong



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