

Name _____

Pd _____

Date _____

Honors Biology

Mr. Thompson

History of DNA

1. Early scientists believed that _____ was the genetic material of the cell because it was more complex than DNA.
2. Proteins are made of 20 different _____.
3. Long chains of amino acids make up _____.
4. Fred Griffith worked with what type of bacteria?
5. What did he find to be true after his experiments with the S and R strains of bacteria?
6. This process of picking up DNA from the environment is called _____.
7. Did Griffith's experiment prove DNA was the genetic material?
8. What 2 main things make up chromosomes?
9. What did Hershey and Chase use in their experiments to prove DNA was the cell's genetic material?
10. Hershey and Chase radioactively tagged the viral DNA with _____ and the protein capsid with _____.
11. Which radioactive substance was injected into and took over the host cell's DNA?
12. Why didn't radioactive sulfur enter the bacterial cell?
13. What scientists showed the amount of the 4 nitrogen bases present in DNA?
14. What bases are complementary (pair with each other) on DNA?
15. What type of bonds join base pairs on DNA?
16. Are these strong or weak bonds?
17. What was Rosalind Franklin's contribution to finding DNA's structure?

Holtzclaw Ap Biology Guide Answers 31

Jianjun Gao



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