

Answers to Chapter 18 Study Questions

1. What two different types of organisms did Griffith use to conduct his studies? *Griffith used two strains of the bacterium, *Streptococcus pneumoniae* (S-pathogenic and R-nonpathogenic) and mice. Use the following table to help outline his experiment.*

	Bacteria used	Experiment	Result
Control 1	Living S-strain	Injected into mice	Mice died of pneumonia
Control 2	Living R strain	Injected into mice	Mice remained healthy
Control 3	Heat-killed S-strain	Injected into mice	Mice remained healthy
Experiment	Mixture of heat-killed S-strain and living R cells	Injected mixture into mice	Mice died of pneumonia Living bacteria in mice blood were "transformed" into the S strain

Why was the S-strain pathogenic? *This strain produced a capsule that protected the bacteria from the host's (mouse) immune system. What was Griffith's conclusion? An unknown heritable substance from dead S cells allowed R cells to make capsules and thus transformed the R cells into S cells. Did Griffith know what the unknown heritable substance was? No.*

2. What was the overall purpose of the experiment conducted by Hershey and Chase with radiolabeled T2 bacteriophage and *E. coli*? *The purpose of this experiment was to try to discern if the hereditary material was DNA or protein.*

What happens to *E. coli* when it is infected with T2 bacteriophage? *T2 reprograms the bacterial cell to make thousands of virus particles.*

What does a T2 phage look like? *T2 phage is a simple virus consisting of a protein coat that includes the phage head, tail sheath, and tail fibers. The DNA is found in the head of the virus.*

Why was ^{35}S used to label T2 proteins? *The amino acid methionine and cysteine contain sulfur. Nucleic acids do not contain sulfur.*

Why was ^{32}P used to label DNA? *Phosphate is found in the backbone of a DNA strand. Phosphorus is not found in amino acids.*

When the labeled T2 phage infected *E. coli* cells, where was radioactivity found after the cultures were agitated and centrifuged to pellet bacterial cells? *Use the table below to answer this question.*

	Location of radioactivity after agitation and centrifugation of bacterial cells	Conclusion:
^{35}S -labeled proteins	Supernatant	The viral proteins did not enter the bacterial cells. Proteins must not be the hereditary material.
^{32}P -labeled DNA	Pellet <i> Newly synthesized phage particles also contained DNA that was partially labeled with ^{32}P.</i>	The viral DNA entered the bacterial cells and directed the synthesis of new viral particles. DNA must be the hereditary material in T2 bacteriophage.

3. Why did scientists initially believe that proteins were the carrier of genetic information? *Compared to nucleic acids, proteins are more complex and heterogeneous molecules.*

Cite evidence generated from Erwin Chargaff that revealed that DNA has molecular diversity among species. *The content of adenine was 30% in humans but 20% in *E. coli*.*

What is Chargaff's rule? *Within a species, the number of adenines = number of thymines, and the number of guanines = number of cytosines.*

Scientific Inquiry Study Island Answer

Patrick Vollmar

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1. Understanding the eBook Scientific Inquiry Study Island Answer
 - The Rise of Digital Reading Scientific Inquiry Study Island Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Scientific Inquiry Study Island Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Scientific Inquiry Study Island Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scientific Inquiry Study Island Answer

- Personalized Recommendations
- Scientific Inquiry Study Island Answer User Reviews and Ratings
- Scientific Inquiry Study Island Answer and Bestseller Lists
- 5. Accessing Scientific Inquiry Study Island Answer Free and Paid eBooks
 - Scientific Inquiry Study Island Answer Public Domain eBooks
 - Scientific Inquiry Study Island Answer eBook Subscription Services
 - Scientific Inquiry Study Island Answer Budget-Friendly Options
- 6. Navigating Scientific Inquiry Study Island Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Scientific Inquiry Study Island Answer Compatibility with Devices
 - Scientific Inquiry Study Island Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scientific Inquiry Study Island Answer
 - Highlighting and Note-Taking Scientific Inquiry Study Island Answer
 - Interactive Elements Scientific Inquiry Study Island Answer
- 8. Staying Engaged with Scientific Inquiry Study Island Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scientific Inquiry Study Island Answer
- 9. Balancing eBooks and Physical Books Scientific Inquiry Study Island Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scientific Inquiry Study Island Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Scientific Inquiry Study Island Answer
 - Setting Reading Goals Scientific Inquiry Study Island Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Scientific Inquiry Study Island Answer

- Fact-Checking eBook Content of Scientific Inquiry Study Island Answer
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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