

Chapter 12 DNA and RNA**Section 12–1 DNA (pages 287–294)**

This section tells about the experiments that helped scientists discover the relationship between genes and DNA. It also describes the chemical structure of the DNA molecule.

Griffith and Transformation (pages 287–289)

1. What did Frederick Griffith want to learn about bacteria? He wanted to learn how certain types of bacteria produce pneumonia.
2. The strain of bacteria that caused pneumonia grew into smooth colonies on culture plates; harmless bacteria produced colonies with rough edges.
3. Circle the letter of each sentence that is true about Griffith's experiment.
☒ a. Mice injected with bacteria from smooth colonies died.
☐ b. Mice injected with bacteria from rough colonies died.
☐ c. Mice injected with heat-killed bacteria from smooth colonies died.
☒ d. Mice injected with a mixture of bacteria from heat-killed smooth colonies and live rough colonies died.
4. What result from Griffith's experiment suggested that the cause of pneumonia was not a chemical poison released by the disease-causing bacteria? The mice survived after being injected with heat-killed disease-causing bacteria.
5. What is transformation? It is the process by which one strain of bacteria changes into another.
6. What hypothesis did Griffith form from the results of his experiments? Some factor, which might be a gene, was transferred from the heat-killed bacteria cells into the live cells.

Avery and DNA (page 289)

7. Is the following sentence true or false? Avery and his colleagues thought that the molecule required in transformation might also be the molecule of the gene.
true
8. Briefly describe how Avery and his group determined which molecule was most important for transformation? They treated the extract of heat-killed bacteria with enzymes that destroyed proteins, lipids, carbohydrates, and other molecules, including RNA and DNA.

Biology Chapter 51 Guided Answer Key

Russell C. Hollingsworth



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Table of Contents Biology Chapter 51 Guided Answer Key

1. Understanding the eBook Biology Chapter 51 Guided Answer Key
 - The Rise of Digital Reading Biology Chapter 51 Guided Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Chapter 51 Guided Answer Key
 - 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 Biology Chapter 51 Guided Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Chapter 51 Guided Answer Key
 - Personalized Recommendations

- Biology Chapter 51 Guided Answer Key User Reviews and Ratings
- Biology Chapter 51 Guided Answer Key and Bestseller Lists
- 5. Accessing Biology Chapter 51 Guided Answer Key Free and Paid eBooks
 - Biology Chapter 51 Guided Answer Key Public Domain eBooks
 - Biology Chapter 51 Guided Answer Key eBook Subscription Services
 - Biology Chapter 51 Guided Answer Key Budget-Friendly Options
- 6. Navigating Biology Chapter 51 Guided Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Chapter 51 Guided Answer Key Compatibility with Devices
 - Biology Chapter 51 Guided Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Chapter 51 Guided Answer Key
 - Highlighting and Note-Taking Biology Chapter 51 Guided Answer Key
 - Interactive Elements Biology Chapter 51 Guided Answer Key
- 8. Staying Engaged with Biology Chapter 51 Guided Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Chapter 51 Guided Answer Key
- 9. Balancing eBooks and Physical Books Biology Chapter 51 Guided Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Chapter 51 Guided Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Chapter 51 Guided Answer Key
 - Setting Reading Goals Biology Chapter 51 Guided Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Chapter 51 Guided Answer Key
 - Fact-Checking eBook Content of Biology Chapter 51 Guided Answer Key

- 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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