### 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)

- What did Frederick Griffith want to learn about bacteria? He wanted to learn how certain types of bacteria produce pneumonia.
- The strain of bacteria that caused pneumonia grew into \_\_\_\_\_\_ smooth \_\_\_\_\_ colonies on culture plates; harmless bacteria produced colonies with \_\_\_\_\_ 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.
  - 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.
- 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)

- 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.
- 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 52 Guided Answer Key**

**JR Anderson** 

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# **Table of Contents Biology Chapter 52 Guided Answer Key**

- 1. Understanding the eBook Biology Chapter 52 Guided Answer Key
  - The Rise of Digital Reading Biology Chapter 52 Guided Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Biology Chapter 52 Guided Answer Key
  - Exploring Different Genres
  - o 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 52 Guided Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Biology Chapter 52 Guided Answer Key
  - Personalized Recommendations
  - Biology Chapter 52 Guided Answer Key User Reviews and Ratings
  - Biology Chapter 52 Guided Answer Key and Bestseller Lists

- 5. Accessing Biology Chapter 52 Guided Answer Key Free and Paid eBooks
  - o Biology Chapter 52 Guided Answer Key Public Domain eBooks
  - Biology Chapter 52 Guided Answer Key eBook Subscription Services
  - Biology Chapter 52 Guided Answer Key Budget-Friendly Options
- 6. Navigating Biology Chapter 52 Guided Answer Key eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Biology Chapter 52 Guided Answer Key Compatibility with Devices
  - Biology Chapter 52 Guided Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Biology Chapter 52 Guided Answer Key
  - Highlighting and Note-Taking Biology Chapter 52 Guided Answer Key
  - Interactive Elements Biology Chapter 52 Guided Answer Key
- 8. Staying Engaged with Biology Chapter 52 Guided Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biology Chapter 52 Guided Answer Key
- 9. Balancing eBooks and Physical Books Biology Chapter 52 Guided Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Biology Chapter 52 Guided Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Chapter 52 Guided Answer Key
  - Setting Reading Goals Biology Chapter 52 Guided Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Chapter 52 Guided Answer Key
  - Fact-Checking eBook Content of Biology Chapter 52 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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