

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.

Chapter 1section Dna The Genetic Material Answer Key

O García



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Genetics Daniel Hartl, Maryellen Ruvolo, 2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation **Behavioral Neuroscience** George Spilich, 2023-05-03 Behavioral Neuroscience by George Spilich presents the neurophysiological aspects of behavior to the 21st century digital native learner in the context of human experience rather than in that of laboratory experiments with non human animals Whether a student has enrolled in the course to prepare them for a career in medicine or science or they are fulfilling a general education science requirement Behavioral Neuroscience is written to meet them where they are The text has an accessible writing style real life examples and data sets active learning exercises and multimodal media and quizzes all designed to make the subject more engaging and relevant This ground breaking first edition is ideal for the Introductory Behavioral Neuroscience or the Biological Psychology course

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