

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.

Guided Reading And Study Workbook Chapter 12

Answers

Chao Zhang



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Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11
Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Teaching Science for Understanding* James Joseph Gallagher, 2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities **The American Journey** Joyce Oldham Appleby, Alan Brinkley, James M. McPherson, 2003 **Science Explorer Environmental Science Guided Reading and Study Workbook 2005c** Michael J. Padilla, □□□, Ioannis Miaoulis, Martha Cyr, Prentice Hall Direct Education Staff, 2004-04 1 Populations and Communities 2 Ecosystems and Biomes 3 Living Resources 4 Land Water and Air Resources 5 Energy Resource **Fundamental Statistics for Behavioral Sciences** Robert B. McCall, 2001 This eighth edition of McCall's well respected book continues to present concepts in a way that students can easily understand The new edition has been updated throughout and now includes recommendations by the APA Task Force on Statistical Inference As in previous editions McCall helps students see the many real applications of statistics to research in the behavioral sciences Taking a traditional approach to teaching the basic statistical concepts and methods used in behavioral research McCall emphasizes building an understanding of the logic of statistics rather than stressing the mechanics In this exciting revision McCall continues to keep the data for the computational problems simple so your students can focus on the rationale and outcome of techniques rather on the calculations themselves Using clear discussion a wide variety of end of chapter exercises and examples drawn from actual studies McCall helps students learn how to choose appropriate statistical methods and correctly interpret the results Also retained in this edition are the author's step by step explanations for each proof and his clear definitions of symbols the essential vocabulary of statistics that have been so successful in helping students master the material **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12 **Prentice Hall Science Explorer** Michael J. Padilla, 2002 Books in Print Supplement, 2002 Forthcoming Books Rose Arny, 2003 *Low-Cost Approaches to Promote Physical and Mental Health* Luciano L'Abate, 2007-06-06 Most physical and mental health professionals will agree that their time space and funds are generally in short supply even under optimal conditions Their participants clients or patients too will admit to similar deficits of time and patience even with optimal motivation Overburdened mental health facilities are trying to cope with limited budgets and overworked and underpaid personnel *Low Cost Approaches to Promote Physical and Mental Health* addresses both sides of this shortfall by offering either self administered or easily administered verbal and non verbal interventions designed to promote positive health behaviors while

requiring little or no outside funding Editor Luciano L Abate continues his long tradition of prolific innovations by identifying major changes in today s health care systems and explaining how targeted prescriptive promotion prevention strategies can enhance traditional primary secondary and tertiary interventions in key behavioral and relational areas Nutrition weight obesity control diets meal planning vitamins and minerals herbal supplements Exercise expressive movement relaxation meditation and mindfulness Writing for mental health promotion from structured protocols workbooks to less structured focused expressive and guided writing including diaries and autobiographies Sex sexuality affection intimacy and fear of intimacy Mother child bonding as well as couple and family togetherness Spirituality and forgiveness in dealing with inevitable life hurts and disappointments Friendships and support groups Plus leading edge interventions including emotional intelligence animal companionship and computer technology Reviews of each promotional approach are engaging effective and consistent with standard psychological practice for lasting results either away from or in addition to non clinical and clinical settings schools hospitals seniorcitizen centers etc L Abate and his fifty colleagues have designed a future oriented sourcebook for mental and public health professionals who want to maximize their resources and those of their participants

Resources in Education ,2000-10 *Today's Teen* Joan Kelly-Plate,1994 Covers such topics as self discovery relationships managing resources such as time money natural resources housing clothing and foods Systeme-D 4.0 Frank Dominguez,James S. Noblitt,2004-06 The SYSTEME D WRITING ASSISTANT Software program provides learners with rapid access to language reference materials The Americans ,1970 *The New Social Studies for the Slow Learner* Edwin Fenton,1969 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 *Instructor's Manual to Accompany Effective Reading Instruction in the Elementary Grades* Donald J. Leu,Charles K. Kinzer,1987 **Training Directors Journal** ,1964 **Journal of Reading** ,1980 Resources in Education ,1987

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