# Identifying DNA as the Genetic Material

Biology - Chapter 8/Lesson 1

By Bilal Khalid

#### Main Idea:

#### Griffith finds a "transforming principle".

Griffith was investigating two forms of the bacterium that causes pneumonia. The **S form (smooth)** is surrounded by a coating made of carbohydrates. The **R form (rough)** of bacteria does not have a smooth coating. Only the S type killed mice. When the S type was heated, the mice were unaffected.

He then injected mice with killed S bacteria and live R bacteria, and the mice died. He found live S bacteria from blood samples from the dead mice. He concluded that some material was transferred from the killed-S bacteria to the R bacteria. He called this material the transforming principle.

Live S Bacteria	Live R Bacteria	Heat-killed S Bacteria	Heat-killed S and Live R bacteria
Surrounded by a carbohydrate coat, looks smooth	Not Surrounded by a carbohydrate coat, looks rough	N/A	N/A
Mice died	Mice lived	Mice lived	Mice died, dead S + living R = living S

#### Main Idea:

#### Avery identifies DNA as the transforming principle.

Avery's team began by combining living R bacteria with an extract made from S bacteria. They then performed a series of tests to find out if the transforming principle was DNA or protein.

- Qualitative Tests Chemical tests showed that protein was not present, but DNA was present.
- Chemical Analysis The elements in the extract closely matched those found in DNA.
- Enzyme Tests Three enzymes were added to the extract: protein-breaking enzymes, RNA-breaking enzymes, and DNA-breaking enzymes. When the protein and RNA were broken down, transformation still occurred, while it stopped when DNA was broken down.

#### Main Idea:

#### Hershey and Chase confirm that DNA is the genetic material.

Hershey and Chase were studying viruses that infect bacteria. This type of virus, called a bacteriophage (or phage), takes over a bacterium's genetic machinery and directs it to make more viruses. Bacteriophages are made of a DNA molecule surrounded by a protein coat – the perfect structure for the experiment.

Protein contains sulfur but very little phosphorus, while DNA contains phosphorus but no sulfur. They grew phages in cultures that contained radioactive isotopes of sulfur or phosphorus. Then they made two experiments:

# **Guide Identifying Genetic Material**

**Dr. Spineanu Eugenia** 

#### **Guide Identifying Genetic Material:**

EPA Research Program Guide United States. Environmental Protection Agency, 1991 Study Guide and Procedure Checklist Manual for Kinn's The Administrative Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, 2022-09-02 Designed to support the trusted content in Kinn's The Administrative Medical Assistant 15th Edition this study guide is an essential review and practice companion to reinforce key concepts encourage critical thinking and help you apply medical assisting content This robust companion guide offers a wide range of activities to strengthen your understanding of common administrative skills including certification preparation questions a review of medical terminology and anatomy and application exercises Trusted for more than 65 years as a key part of the journey from classroom to career it also features competency checklists to accurately measure your progress and performance from day one until you land your first job as a medical assistant Approximately 70 step by step procedure checklists enable you to assess and track your performance for every procedure included in the textbook Chapter by chapter correlation with the textbook allows you to easily follow core textbook competencies Matching and acronym activities reinforce your understanding of medical terminology anatomy and physiology and chapter vocabulary Short answer and fill in the blank exercises strengthen your comprehension of key concepts Multiple choice questions help you prepare for classroom and board exams Workplace application exercises promote critical thinking and job readiness before you enter practice Internet exercises offer ideas for expanded and project based learning NEW Content aligns to 2022 medical assisting educational competencies NEW and UPDATED Comprehensive coverage of all administrative functions complies with accreditation requirements and includes insurance coding privacy and security telehealth logistics and more Handbook of Health Social Work Sarah Gehlert, Teri Browne, 2019-07-09 The updated third edition of the definitive text on health social work Thoroughly revised and updated the third edition of Handbook of Health Social Work is an authoritative text that offers a comprehensive review of the diverse field of health social work With contributions from a panel of international experts in the field the book is theory driven and solidly grounded in evidence based practice The contributors explore both the foundation of social work practice and offer guidance on effective strategies policies and program development The text provides information that is essential to the operations of social workers in health care including the conceptual underpinnings and the development of the profession The authors explore the practice issues such as theories of health behavior assessment communication and the intersections between health and mental health The authors also examine a wide range of examples of social work practices including settings that involve older adults nephrology oncology and chronic diseases such as diabetes heart disease HIV AIDS genetics end of life care pain management and palliative care as well as alternative treatments and traditional healers This is the only handbook of its kind to unite the body of health social work and Offers a wellness rather than psychopathological perspective and contains treatment models that are evidence based Includes learning exercises further resources research suggestions and

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Niedzwiecki, Julie Pepper, 2022-09-08 Designed to support the trusted content in Kinn's The Medical Assistant 15th Edition
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technology come on stream decisions need to be made as to whether or not to use them Yet many food industry professionals have little or no background in biotechnology and have a limited concept of possible applications in foods Therefore this book aims to foster a greater understanding of the benefits and potential pitfalls of this new technology Comprehensive Guide to Renal Pelvis Cancer: Diagnosis, Treatment, and Holistic Care Dr. Spineanu Eugenia, Discover a comprehensive and in depth guide to understanding managing and overcoming Malignant Neoplasm of the Renal Pelvis Comprehensive Guide to Renal Pelvis Cancer Diagnosis Treatment and Holistic Care provides a wealth of knowledge for patients caregivers and healthcare professionals navigating the complexities of this condition Inside this treatise you ll find a wealth of valuable information from the very basics to advanced insights Definition and Overview Gain a deep understanding of renal pelvis cancer its origins and its impact on the body Historical Perspective Explore the history of research and treatment advancements in this field Epidemiology Dive into the prevalence incidence and global impact of renal pelvis cancer Risk Factors Discover the factors that may increase the likelihood of developing this condition Pathogenesis Explore the intricate biochemical processes underlying the development of renal pelvis cancer Classification and Staging Learn about the different stages and classifications used to assess the severity of the disease Gross Anatomy Explore the anatomical intricacies of the renal pelvis and how cancer affects this vital organ Microscopic Anatomy Dive into the cellular composition and functions critical to understanding this condition Genetic Mutations Uncover the role of genetic mutations including TP53 and VHL in the development of renal pelvis cancer Molecular Pathways Explore the intricate molecular pathways like Wnt catenin and MAPK ERK that drive cancer progression Biomarkers Understand the diagnostic and prognostic biomarkers crucial for effective management Symptoms and Diagnosis Recognize the early and advanced stage symptoms and understand the differential diagnosis process Radiological Imaging Explore cutting edge imaging techniques like CT MRI and ultrasonography Treatment Options Dive into a range of treatment modalities from surgery and chemotherapy to targeted therapies Rehabilitation and Support Learn about physical rehabilitation psychological support and patient advocacy to enhance holistic care With this treatise you ll empower yourself with knowledge gain insights into the latest research and access resources for effective management and support Whether you re a patient caregiver or healthcare professional Comprehensive Guide to Renal Pelvis Cancer is your roadmap to understanding coping with and conquering this challenging Biological Assessment Guidance for Dredged Material Environmental Commission. Working Group 8,2006 condition

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# **Table of Contents Guide Identifying Genetic Material**

- 1. Understanding the eBook Guide Identifying Genetic Material
  - The Rise of Digital Reading Guide Identifying Genetic Material
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Guide Identifying Genetic Material
  - 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 Guide Identifying Genetic Material
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Guide Identifying Genetic Material
  - Personalized Recommendations
  - Guide Identifying Genetic Material User Reviews and Ratings
  - Guide Identifying Genetic Material and Bestseller Lists

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