

# 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

**Ruth Ballweg, Darwin L. Brown, Daniel  
T. Vetrosky**



## **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

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Mandated Benefits Compliance Guide 2016 W/ Cd The Balser Group,2016-01-04

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**Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book** Brigitte Niedzwiecki, Julie Pepper, 2022-09-08 Designed to support the trusted content in Kinn's The 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 and clinical 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 Comprehensive coverage of all administrative and clinical procedures complies with accreditation requirements Approximately 190 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

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Mandated Benefits Compliance Guide 2015 Balser Group,2014-12-01 Mandated Benefits 2015 Compliance Guide is a comprehensive and practical reference manual covering key federal regulatory issues that must be addressed by human resources managers benefits specialists and company executives in all industries

Mandated Benefits 2015 Compliance Guide includes in depth coverage of these and other major federal regulations Patient Protection and Affordable Care Act PPACA Health Information Technology for Economic and Clinical Health HITECH Act Mental Health Parity and Addiction Equity Act MHPAEA Genetic Information Nondiscrimination Act GINA Americans with Disabilities Act ADA Employee Retirement Income Security Act ERISA Health Insurance Portability and Accountability Act HIPAA Heroes Earnings Assistance and Relief Tax Act HEART Act Consolidated Omnibus Budget Reconciliation Act COBRA Mandated Benefits 2015 Compliance Guide helps take the guesswork out of managing employee benefits and human resources by clearly and concisely describing the essential requirements and administrative processes necessary to comply with each regulation It offers suggestions for protecting employers against the most common litigation threats and recommendations for handling various types of employee problems Throughout the Guide are numerous exhibits useful checklists and forms and do s and don ts A list of HR audit questions at the beginning of each chapter serves as an aid in evaluating your company s level of regulatory compliance Mandated Benefits 2015 Compliance Guide has been updated to include The Dodd Frank Act creating an ethics training program and practices and trends Information on payroll cards and Federal Insurance Contributions Act FICA tip credit New regulations and guidelines for health care reform as mandated by the Patient Protection and Affordable Care Act PPACA Updated requirements for certificates of creditable coverage excepted benefits under the Health Insurance Portability and Accountability Act HIPAA and transaction standards The revised model general and election notices as required under PPACA Qualified Longevity Annuity Contracts and definition of spouse per the Supreme Court ruling in United States v Windsor and updates to the Pension Benefit Guaranty Corporation s required premiums The payment of long term disability insurance by qualified retirement plans PPACA s effect on health reimbursement arrangements new information on the proposed 500 carryover of unused funds in health flexible spending arrangements FSAs and PPACA s effect on health FSAs new material on the effect of amendments to HIPAA s excepted benefit rules on Employee Assistance Programs and revised information on providing employee benefits to legally married same sex couples based on the Supreme Court s decision in United States v Windsor and the decision s effect on cafeteria plan mid year election changes New sections on no fault attendance policies and pregnancy and the Americans with Disabilities Act Information on the definition of spouse based on the Supreme Court ruling in United States v Windsor New material on the proposed Equal Pay Report

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*Genetic Modification in the Food Industry* Susan Harlander,Sibel Roller,2012-12-06 Although the true economic impact of genetic modifications is yet to be realized the potential of this new technology to benefit the food processing industry and to improve food quality is enormous Specific genetically modified whole foods and food ingredients that have recently become available or are about to become available are described and discussed in relation to their technical performance and consumer acceptance The regulatory ethical and communication issues in food biotechnology are also reviewed As the products of gene

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 condition Biological Assessment Guidance for Dredged Material Environmental Commission. Working Group 8,2006

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in depth coverage of these and other major federal regulations and developments HIPAA Health Insurance Portability and Accountability Act Wellness Programs ADA and GINA regulations Mental Health Parity Act as amended by the 21st Century Cures Act Reporting Requirements with the Equal Employment Opportunity Commission AAPs final rules Pay Transparency Act Mandated Benefits 2020 Compliance Guide helps take the guesswork out of managing employee benefits and human resources by clearly and concisely describing the essential requirements and administrative processes necessary to comply with each regulation It offers suggestions for protecting employers against the most common litigation threats and recommendations for handling various types of employee problems Throughout the Guide are numerous exhibits useful checklists and forms and do s and don ts A list of HR audit questions at the beginning of each chapter serves as an aid in evaluating your company s level of regulatory compliance In addition Mandated Benefits 2020 Compliance Guide provides the latest information on Family and Medical Leave Substance Abuse in the Workplace Workplace Health and Safety Recordkeeping and Documentation Integrating ADA FMLA Workers Compensation and Related Requirements Significant Developments at the EEOC Affirmative Action Plans Retirement Savings Plans and Pensions Pay Practices and Administration Health Life and Disability Insurance Managing the Welfare Benefits Package Human Resources Risk Management And much more Previous Edition Mandated Benefits 2019 Compliance Guide ISBN 9781543800449

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obstetrics stem cells genetic engineering neurodegenerative diseases urological diseases and aging By the end of this book I hope you will have a deeper understanding of the vast possibilities offered by genomics in the search for more effective personalized and well being treatments for each individual Genomics is transforming medicine as we know it and it is an ever evolving field filled with promise and exciting discoveries Ready to embark on this fascinating journey Let s explore together the secrets of the human genome and its implications for the health and well being of humanity      **Mandated Benefits**

**Compliance Guide** The Wagner Law Group,2021-12-10 Mandated Benefits 2022 Compliance Guide is a comprehensive and practical reference manual that covers key federal regulatory issues which must be addressed by human resources managers benefits specialists and company executives in all industries This comprehensive and practical guide clearly and concisely describes the essential requirements and administrative processes necessary to comply with employment and benefits related regulations      **Physician Assistant: a Guide to Clinical Practice** Ruth Ballweg,Darwin Brown,Daniel

Vetrosky,2013-01-01 Here s the only book dedicated to giving you the complete information that you need to become an effective Physician Assistant and maintain those high standards in practice This up to date edition covers all aspects of the physician assistant profession the PA curriculum and the PA s role in practice all in an easy to use textbook format that features convenient tables and clear illustrations as well as case studies and clinical application questions You ll find this book invaluable throughout your course of study when entering the job market and as an excellent reference in clinical practice And with this Expert Consult title you ll be able to search the entire contents of the book online from anywhere Covers all the core competencies that you need to master for year one or for recertification so you can excel Gives you the information you need on all of the rotations and practice areas that are open to you to help you make the right decisions Offers practical Pros and Cons box for each rotation and area of practice to aid in day to day decision making Utilizes a fresh new two color format for better visual guidance Focuses on clinical information with case studies included at the end of each chapter Includes a new chapter on evidence based medicine to prepare you for daily practice Provides Expert Consult access so you can search the entire contents of the book online Includes a new chapter on Physician Assistants in international medicine to keep you on the cutting edge Your purchase entitles you to access the website until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the website be discontinued      *Health Informatics: Practical Guide Seventh Edition* William R.

Hersh,Robert E. Hoyt,2018 Health informatics is the discipline concerned with the management of healthcare data and information through the application of computers and other information technologies The field focuses more on identifying and applying information in the healthcare field and less on the technology involved Our goal is to stimulate and educate

healthcare and IT professionals and students about the key topics in this rapidly changing field This seventh edition reflects the current knowledge in the topics listed below and provides learning objectives key points case studies and extensive references Available as a paperback and eBook Visit the textbook companion website at <http://informaticseducation.org> for more information Page 4 de la couverture

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