

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

RC Schank



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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
 - 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
 - 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

- 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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