

# AP Biology Ch 13 KEY: The Molecular Basis of Inheritance

## Key Concepts:

1. **DNA** is the genetic material.
2. Many **Proteins** work together in DNA **Replication** and repair.
3. A **Chromosome** consists of a **DNA Molecule** packed together with **Proteins (histones)**.
4. Understanding DNA structure and replication makes **Genetic Engineering** possible.

## CH13:

5. **Nucleic Acids** are unique molecules due to their ability to **direct their own replication**.
6. In this chapter you will learn:
  - o How scientists deduced that **DNA was the genetic material**
  - o How DNA is **replicated** (copied)
  - o How cells **repair** DNA
  - o How DNA is **packed** w/**proteins** to form a chromosome.
7. TH Morgan et al. group showed that **Genes** exist as parts of chromosomes. After that, the two components of chromosomes that became candidates as "the" genetic material were **DNA** and **Proteins**. Understandably, proteins were the frontrunners as they were identified as a class of macromolecules with great **heterogeneity** and **specificity** (essential characteristics for hereditary material). Nucleic acids seemed too uniform...but, this was incorrect.
8. The view of Protein's role gradually changed as the role of **DNA** in heredity was worked out in studies of **Bacteria** and the **Viruses (bacteriophages)** that infect them
9. Concept 13.1: Discuss the experiments of the following scientists and how their experiments gave evidence as DNA as the genetic material.

| <i>Scientist</i>  | <i>Year</i> | <i>Experiment (description)</i>  | <i>Evidence gained</i>   |
|---|-------------|--|--|
| <p><b>Frederick Griffith</b></p> <p><b>EXPERIMENT</b></p> <p>Living S cells (dead mouse)    Living R cells (live mouse)    Heat-killed S cells (live mouse)    Mixture of heat-killed S cells and living R cells (dead mouse)</p> <p><b>RESULTS</b></p> <p>Mouse dies    Mouse healthy    Mouse healthy    Mouse dies</p> <p>Living S cells</p> | 1928        | <p>Inject mice with different forms of pneumonia</p> <ul style="list-style-type: none"> <li>-Smooth=deadly</li> <li>-Rough=non-deadly</li> <li>-Heat killed Smooth</li> <li>-Heat killed smooth &amp; living Rough</li> </ul> <p>Heat killed pathogenic bacteria mixed with non-pathogenic in experimental group</p> | <p>Molecules from the dead Smooth cells can transform the Rough bacteria into the Smooth form. Assimilated the DNA</p> <p>Non-pathogenic became deadly due to change in genotype = change in phenotype</p> <p>Something (DNA) was taken up by the non-deadly that allowed it to transform into deadly.</p> |

# Modern Biology Ch 13 Study Guide Answer

**R Bogdan**



**Modern Biology Ch 13 Study Guide Answer:**

## Whispering the Techniques of Language: An Mental Journey through **Modern Biology Ch 13 Study Guide Answer**

In a digitally-driven world where monitors reign great and immediate communication drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases frequently go unheard. Yet, situated within the pages of **Modern Biology Ch 13 Study Guide Answer** a charming fictional prize pulsing with raw feelings, lies an extraordinary journey waiting to be undertaken. Written by a skilled wordsmith, that wonderful opus invites visitors on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the psychological depths of this touching review, we will embark upon a sincere exploration of the book is core styles, dissect their charming publishing design, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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