

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>Frederick Griffith</p> <p>EXPERIMENT</p> <p>Living S cells (deadly) Living R cells (non-deadly) Heat-killed S cells (non-deadly) Mixture of heat-killed S cells and living R cells (deadly)</p> <p>RESULTS</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"> -Smooth=deadly -Rough=non-deadly -Heat killed Smooth -Heat killed smooth & living Rough <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>

Molecular Basis Inheritance Study Guide Answers

**Linda Brooke Stabler, Mark
Metz, Allison Wilkes**



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