

Chapter Outline

Chapter 13 DNA, RNA, and Proteins

Section 1: The Structure of DNA**KEY IDEAS**

- > What is genetic material composed of?
- > What experiments helped identify the role of DNA?
- > What is the shape of a DNA molecule?
- > How is information organized in a DNA molecule?
- > What scientific investigation led to the discovery of DNA's structure?

DNA: THE GENETIC MATERIAL

- > What is genetic material composed of?
- > DNA is the primary material that causes recognizable, inheritable characteristics in related groups of organisms.
 - The instructions for inherited traits are called *genes*. A gene is a small segment of deoxyribonucleic acid, or DNA, that is located in a chromosome.
 - DNA is a simple molecule, composed of only four different subunits.

SEARCHING FOR THE GENETIC MATERIAL

- > What experiments helped identify the role of DNA?
- > Three major experiments led to the conclusion that DNA is the genetic material in cells. These experiments were performed by Griffith, Avery, and Hershey and Chase.
 - In 1928, Frederick Griffith worked with two related strains of bacteria.
 - Griffith discovered that when harmless live bacteria were mixed with heat-killed disease-causing bacteria and then injected into mice, the mice died.
 - These results led Griffith to discover transformation. Transformation is a change in genotype that is caused when cells take up foreign genetic material.
 - Griffith's experiments led to the conclusion that genetic material could be transferred between cells.
 - In the 1940s, Oswald Avery wanted to determine whether the transforming agent in Griffith's experiments was protein, RNA, or DNA.
 - Avery used enzymes to destroy each of these molecules in heat-killed bacteria.
 - Avery's experiments led to the conclusion that DNA is responsible for transformation in bacteria.

Skills Worksheet Chapter 13 Dna Rnaand Proteins

Terry C. Jones



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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

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Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

Chapter Resource 2 Chemistry of Life

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