

Chapter 16: The Molecular Basis of Inheritance

- 16.1 Describe the structure of DNA and evidence that it is the genetic material.
- 16.2 Explain how the Meselson-Stahl experiment contributed to our understanding of DNA replication, and describe this process.
- 16.3 Distinguish among the levels of chromatin packing in a eukaryotic chromosome.

Genetic information provides for continuity of life. The double-stranded structure of DNA provides a simple and elegant solution for the transmission of heritable information to the next generation. This chapter will guide your study of DNA—how it was determined to be the genetic material, its structure, and how it is faithfully duplicated.

Study Tip: The big picture is shown graphically in Figure 16.1 in your text. Recreate and label the three steps shown to DNA replication in the space below. Simplify your figure by just using the representations of chromosomes rather than DNA strands. Notice the terminology, especially unduplicated chromosome and duplicated chromosome. Be precise with language. Understanding the difference between the two terms will reduce confusion in your thoughts and writing.

See page 314 in your text for the labeled figure.

DNA replication allows genetic information to be inherited from a parent cell to daughter cells by _____ and from generation to generation by _____.

Concept 16.1 DNA is the genetic material

LO 16.1: Describe the structure of DNA and evidence that it is the genetic material.

1. What are the two chemical components of chromosomes?
DNA and protein
2. Why did researchers originally think that protein was the genetic material?

Until the 1940s, the case for proteins seemed stronger, especially because biochemists had identified them as a class of macromolecules with great heterogeneity and specificity of function, essential requirements for the hereditary material. Moreover, little was known about nucleic acids, whose physical and chemical properties seemed far too uniform to account for the multitude of specific inherited traits exhibited by every organism.

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