

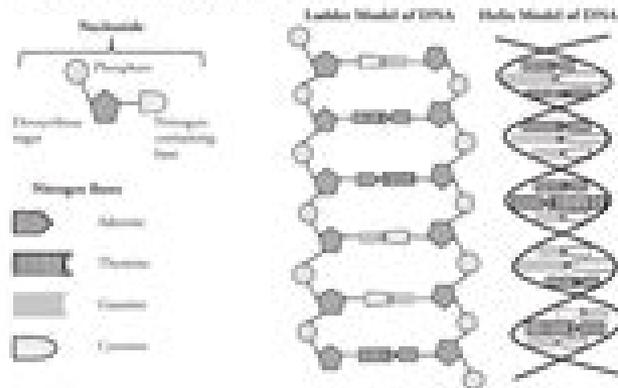
DNA Structure and Replication

How is genetic information stored and copied?

Why?

Deoxyribonucleic acid or DNA is the molecule of heredity. It contains the genetic blueprint for life. For organisms to grow and repair damaged cells, each cell must be capable of accurately copying itself. In how does the structure of DNA allow it to copy itself so accurately?

Model 1 – The Structure of DNA



1. Refer to the diagram in Model 1.
 - a. What are the three parts of a nucleotide?
 - b. What kind of sugar is found in a nucleotide?
 - c. Which nucleotide component contains nitrogen?
 - d. Name the four nitrogen bases shown in Model 1.
2. DNA is often drawn as a "ladder model." Locate this drawing in Model 1.
 - a. Circle a single nucleotide on each side of the ladder model of DNA.

- a. What portion of the nucleotide makes up the rungs of the "ladder"?
 - b. What parts of the nucleotide make up the sides (backbone) of the "ladder"?
 - c. Look at the bottom and top of the "ladder" in Model 1. Are the rungs **parallel** (the ends of the rungs match) or **antiparallel** (the ends of the rungs are opposite)?
3. On the ladder model of DNA label each of the bases with the letters A, T, C or G.
 - a. Refer to Model 1. When one nucleotide contains adenine, what type of base is the adenine attached to on the opposite nucleotide strand?
 - b. The two strands of DNA are held together with **hydrogen bonds** between the nitrogen bases. There are weak bonds between **purine** molecules. How many hydrogen bonds connect the two base from Question 3?
 - c. Refer to Model 1. When one nucleotide contains cytosine, what type of base is the cytosine attached to on the opposite nucleotide strand?
 - d. How many hydrogen bonds connect the two bases from Question 3?
 - e. With your group use a complete sentence to write a rule for how the bases are arranged in the ladder model of DNA.



Read This

Erwin Chargaff (1907–2002), an Austrian-American biochemist, investigated the ratio of nucleotide bases found in the DNA from a variety of organisms. From his research, as well as research by Rosalind Franklin and Maurice Wilkins, Watson and Crick developed the **complementary base-pair** rule during their race to discover the structure of DNA. The complementary base-pair rule states that adenine and thymine base-pair across two strands, and guanine and cytosine base-pair across two strands.

4. Fill in the **complementary** bases on the strand below according to the base-pair rule.
A T C C A G
5. The ladder model of DNA is a simplified representation of the actual structure and shape of a DNA molecule. In reality, the strands of DNA form a **double helix**. Refer to the double helix diagram in Model 1 and describe its shape using a complete sentence.



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AN Whitehead



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