

DNA Structure and Function

Function of DNA

- Holds instructions for protein synthesis
- Contains genes in a specific orientation unique to the individual



Structure of DNA (Deoxyribonucleic acid)

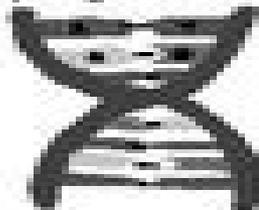
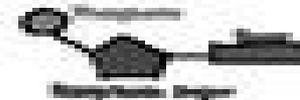
- double helix with anti-parallel strands (opposite alignments) complementary strands
- Made up of nucleotides (sugar, phosphate backbone & nitrogen bases)
- Sugar: deoxyribose

→ 4 Nitrogenous bases:

Adenine, Thymine, Cytosine, and Guanine

- A always bonds with T & C always bonds with G

- Bases held together by hydrogen bonds



DNA Orientation

1. Labeled 5' (prime) and - Phosphate
2. Other end labeled 3' (prime) and - Hydroxyl
3. Gives DNA molecule direction during synthesis



DNA is involved in 2 Key Processes:

1. DNA Replication
 - cells make copy of DNA in preparation for cell division
 - occurs in nucleus
2. Protein Synthesis
 - production of proteins
 - starts in nucleus, finishes in ribosomes

Dna Structure And Function Study Guide

Yan Bai



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