

DNA Structure and Function

Function of DNA

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



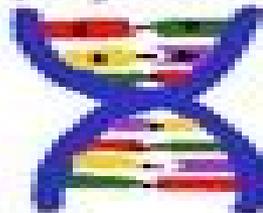
Structure of DNA (Deoxyribonucleic acid)

- 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 G always bonds with C
- Bases held together by hydrogen bonds



DNA Orientation

1. Labeled 5' (prime) end - Phosphate
2. Other end labeled 3' (prime) end - Hydroxyl
3. Shows 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 Study Guide

Michal Rosen-Zvi



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