

Unit 3 Molecular Genetics

CHAPTER 6

LESSON 1 DNA STRUCTURE

DNA Structure

- Composed of nucleotides
- Deoxyribose sugar
- Phosphate group
- Nitrogenous base
 - Adenine
 - Thymine
 - Guanine
 - Cytosine
 - Uracil

DNA Bonding

- Phosphodiester bonds join sugar and phosphate group
- Sugar-phosphate backbone
- Glycosidic bonds join nitrogenous base to sugar
- Recall: glycosidic bond: a bond that attaches a sugar to another group that may or may not be another carbohydrate

Base Pairing

- Adenine and Thymine (2 hydrogen bonds)
- Guanine and Cytosine (3 hydrogen bonds)
- Chargaff's Rule: In DNA A is equal to the amount of T and G is equal to the amount of C

DNA Structure

- Antiparallel strands
- Running in opposite directions
- 5' end aligns with 3'
- Arranged as a double helix

Complementary Sequences

If you know the sequence of one strand, you can determine the sequence of the complementary strand.

DNA Terminology

- Histones: structural proteins
- Nucleosomes: Section of DNA wrapped around histones
- Chromatin: DNA + histones
- Chromatid: when a chromosome replicates, there are TWO chromatids
- Centromere: sequence of DNA where the sister chromatids are held together
- Chromosomes: highly condensed chromatin

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