

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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Unit 3 Molecular Genetics Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Unit 3 Molecular Genetics Study Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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