

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

Unit 3 Molecular Genetics Study Guide

Clifford Lane



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Table of Contents Unit 3 Molecular Genetics Study Guide

1. Understanding the eBook Unit 3 Molecular Genetics Study Guide
 - The Rise of Digital Reading Unit 3 Molecular Genetics Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit 3 Molecular Genetics Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Unit 3 Molecular Genetics Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit 3 Molecular Genetics Study Guide
 - Personalized Recommendations
 - Unit 3 Molecular Genetics Study Guide User Reviews and Ratings
 - Unit 3 Molecular Genetics Study Guide and Bestseller Lists
5. Accessing Unit 3 Molecular Genetics Study Guide Free and Paid eBooks

- Unit 3 Molecular Genetics Study Guide Public Domain eBooks
- Unit 3 Molecular Genetics Study Guide eBook Subscription Services
- Unit 3 Molecular Genetics Study Guide Budget-Friendly Options
- 6. Navigating Unit 3 Molecular Genetics Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit 3 Molecular Genetics Study Guide Compatibility with Devices
 - Unit 3 Molecular Genetics Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit 3 Molecular Genetics Study Guide
 - Highlighting and Note-Taking Unit 3 Molecular Genetics Study Guide
 - Interactive Elements Unit 3 Molecular Genetics Study Guide
- 8. Staying Engaged with Unit 3 Molecular Genetics Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unit 3 Molecular Genetics Study Guide
- 9. Balancing eBooks and Physical Books Unit 3 Molecular Genetics Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit 3 Molecular Genetics Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unit 3 Molecular Genetics Study Guide
 - Setting Reading Goals Unit 3 Molecular Genetics Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unit 3 Molecular Genetics Study Guide
 - Fact-Checking eBook Content of Unit 3 Molecular Genetics Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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