

Study Guide: Ch#16-Molecular Basis of Inheritance

1. Use the diagram to describe the structure of DNA. Include several comments.

→ polymer that is made up of nucleotides

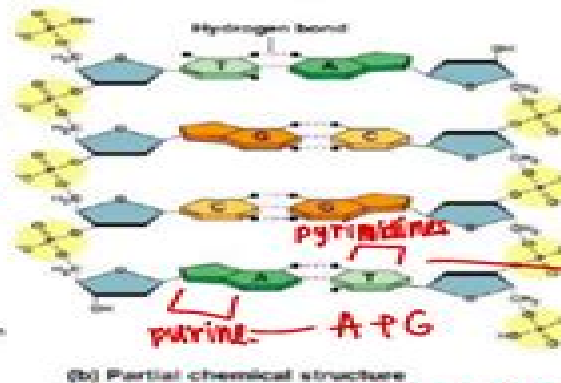
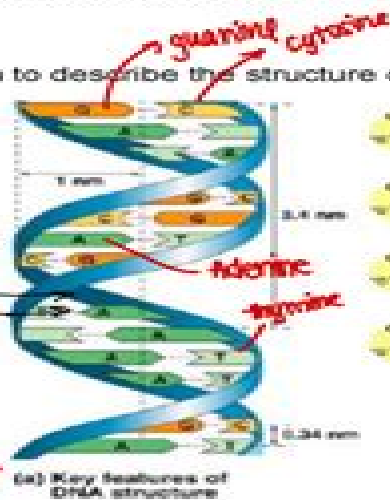
- nucleotides: phosphate, a sugar, nitrogenous base

- A → T
- G → C

- phosphate on 5' carbon
- attached to 3' carbon of next nucleotide

- double stranded - antiparallel

- helix - "wavy" w/ "handed" hydrogen bonds



nucleotide

→ phosphate

→ sugar

→ nitrogenous base

T C U

Always purine joined w/ pyrimidines

2. What is the advantage of the double stranded aspect of the DNA?

Replication: DNA acts as a template for the formation of a complementary chain
→ double helix provides information to reconstruct the other

3. Describe what the Meselson-Stahl experiment helped to determine.

→ their experiment supported the SEMI-CONSERVATIVE model of DNA replication
→ they compared different densities of DNA that had been from the first + second replication + then centrifuged the DNA to separate the DNA from other densities. Their replication eliminated conservative model. second replication eliminated the dispersive model.

4. Which model of DNA replication is accepted from the above experiment? Explain what that means.

Semi-conservative model: 2 strands of the parental molecule separate, + each functions as a template for synthesis of a new, complementary strand.

5. What happens at the DNA replication fork?

Replication fork: is area @ the end of each replication bubble
→ Y-shaped region where the parental strands of DNA are unwound

6. Make a list of the six enzymes/proteins involved in replication and their role.

- helicases**: enzymes that unwind the double helix @ the replication fork.
- Single-strand binding protein**: bind to the unwound DNA strands, keeping them from re-pairing. The unwinding of double helix causes "friction" leading + strain ahead of the replication fork.
- Topoisomerase**: helps relieve this strain by breaking, swiveling, + rejoining DNA strands.
- Primase**: synthesizes an RNA chain from a single RNA nucleotide, adding more RNA nucleotides one @ a time, using the parental strand as a template. New DNA strand will begin from 3' end of the RNA primer.
- DNA Polymerases**: catalyze the synthesis of new DNA by adding nucleotides to a preexisting chain.
- DNA Ligase**: joins Okazaki fragments of lagging strand; on leading strand, joins 3' end of DNA that replicates primer to rest of leading strand DNA.



Enzymes that synthesize DNA cannot initiate a poly nucleotide. they can only add DNA nucleotides to an existing strand.

primer-RNA chain

5' end of leading strand + 3' end of new strand + 3' end of lagging strand

5' end of leading strand + 3' end of new strand + 3' end of lagging strand

5' end of leading strand + 3' end of new strand + 3' end of lagging strand

5' end of leading strand + 3' end of new strand + 3' end of lagging strand

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Table of Contents Molecular Basis Of Inheritance Study Guide

1. Understanding the eBook Molecular Basis Of Inheritance Study Guide
 - The Rise of Digital Reading Molecular Basis Of Inheritance Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Molecular Basis Of Inheritance 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 Molecular Basis Of Inheritance Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Molecular Basis Of Inheritance Study Guide
 - Personalized Recommendations
 - Molecular Basis Of Inheritance Study Guide User Reviews and Ratings

- Molecular Basis Of Inheritance Study Guide and Bestseller Lists
- 5. Accessing Molecular Basis Of Inheritance Study Guide Free and Paid eBooks
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 - Highlighting and Note-Taking Molecular Basis Of Inheritance Study Guide
 - Interactive Elements Molecular Basis Of Inheritance Study Guide
- 8. Staying Engaged with Molecular Basis Of Inheritance Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Molecular Basis Of Inheritance Study Guide
- 9. Balancing eBooks and Physical Books Molecular Basis Of Inheritance Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Molecular Basis Of Inheritance Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Molecular Basis Of Inheritance Study Guide
 - Setting Reading Goals Molecular Basis Of Inheritance Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Molecular Basis Of Inheritance Study Guide
 - Fact-Checking eBook Content of Molecular Basis Of Inheritance Study Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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