

DNA REPLICATION

STUDY-GUIDE

DNA REPLICATION

DNA REPLICATION

01 ENZYMES

- Enzymatic activity of helicase, topoisomerase, primase, and DNA polymerase are required for DNA replication to occur in eukaryotes.
- Helicase separates DNA double helix by unwinding the hydrogen bonds, resulting in replication fork.
- Primase uses RNA primers to start DNA synthesis at replication fork.
- DNA polymerase adds nucleotides, making complementary strand of DNA by reading existing strand as template.
- Topoisomerase relaxes supercoiled DNA by creating nicks in DNA.
- Primase uses RNA primers to start DNA synthesis at replication fork.

02 INITIATION

Initiation occurs at origin, where primase adds RNA primers to DNA template, and DNA polymerase adds complementary strand.

03 DIRECTIONALITY

DNA synthesis goes 5' to 3' and directionality is due to DNA polymerase adding nucleotides to 3' end of strand.

04 PROOFREADING

Proofreading uses 3D structure of DNA, as it replicates, to check if newly synthesized strand is complementary to template strand.

05 ELONGATION

Elongation adds nucleotides to 3' end of strand.

06 DETERMINING DIRECTION

DNA polymerase adds nucleotides to 3' end of strand.

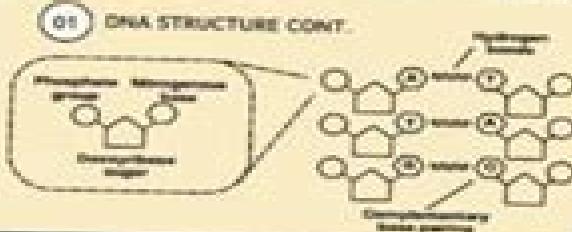
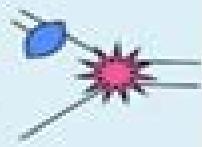
07 CHECKING FOR MISMATCHES

Proofreading removes mismatched nucleotides.

08 REPAIRING MISMATCHES

Repairing mismatched nucleotides.

DNA REPLICATION

<h1>DNA REPLICATION</h1>	<p>01 DNA STRUCTURE</p> <p>DNA is a double, helical molecule composed of nucleotides, each consisting of a phosphate group, a deoxyribose sugar, and a nitrogenous base.</p> <p>The main structure has repeating DNA units in a zig-zag pattern of alternating phosphate and deoxyribose groups. Nitrogenous bases are attached to the deoxyribose sugar. The nitrogenous bases are paired together in a complementary fashion, and specific units are joined by covalent bonds.</p> 
<p>02 DNA BASE SEQUENCE</p> <p>The order of bases within the nucleotides is called the base sequence.</p> <p>Each triplet of bases (codon) corresponds to a specific amino acid sequence, determining the structure and function of proteins.</p> <p>Non-coding regions help with transcription and replication, while the coding regions are used for protein synthesis.</p>	<p>03 DNA STRUCTURE CONT.</p> 
<p>03 SEMI-CONSERVATIVE</p> <p>Both old and new DNA molecules are derived from older ones and contain an identical order.</p> <p>Replication is semi-conservative. This means that each new DNA molecule contains one original strand and one newly synthesized strand.</p> <p>The DNA molecules are composed of complementary nucleotides that pair with each other. This is determined by the base pairing rules (A = T, C = G).</p>	<p>04 ENZYMES</p> <p>Enzymes are proteins that catalyze reactions.</p> <ul style="list-style-type: none"> Helicase: Breaks unwound DNA double helix, creating the replication fork. DNA polymerase: DNA polymerase adds nucleotides to the growing strand, extending the existing DNA.  <p>Other enzymes support strand separation and coordination of replication. These enzymes include topoisomerases, helicases, and primases.</p>
<p>05 KEY TERMS</p> <p>Double helix: A pair of DNA components of a complementary nucleotide sequence, wound together.</p> <p>Replication fork: A region where DNA is being replicated, consisting of two DNA molecules that are being synthesized.</p>	<p>Semi-conservative replication: Both new DNA molecules contain one original strand.</p> <p>Transcription: The original DNA is used as a template for complementary RNA.</p> <p>Replication: Unwinding DNA.</p> <p>DNA Polymerase: Catalyzes the formation of DNA by adding nucleotides.</p>

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Lester Goldstein

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Table of Contents 83 Dna Replication Study Guide

1. Understanding the eBook 83 Dna Replication Study Guide
 - The Rise of Digital Reading 83 Dna Replication Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 83 Dna Replication 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 83 Dna Replication Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 83 Dna Replication Study Guide
 - Personalized Recommendations
 - 83 Dna Replication Study Guide User Reviews and Ratings
 - 83 Dna Replication Study Guide and Bestseller Lists
5. Accessing 83 Dna Replication Study Guide Free and Paid eBooks
 - 83 Dna Replication Study Guide Public Domain eBooks
 - 83 Dna Replication Study Guide eBook Subscription Services

- 83 Dna Replication Study Guide Budget-Friendly Options
- 6. Navigating 83 Dna Replication Study Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - 83 Dna Replication Study Guide Compatibility with Devices
 - 83 Dna Replication Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 83 Dna Replication Study Guide
 - Highlighting and Note-Taking 83 Dna Replication Study Guide
 - Interactive Elements 83 Dna Replication Study Guide
- 8. Staying Engaged with 83 Dna Replication Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 83 Dna Replication Study Guide
- 9. Balancing eBooks and Physical Books 83 Dna Replication Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 83 Dna Replication Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 83 Dna Replication Study Guide
 - Setting Reading Goals 83 Dna Replication Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 83 Dna Replication Study Guide
 - Fact-Checking eBook Content of 83 Dna Replication 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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