

Study Guide for DNA Replication lecture

Know the structure of double stranded DNA: 2 strands are polymers of nucleotides, phosphodiester backbone- repeating sugar and phosphate units joined by phosphodiester bonds. Wraps around 1 axis, antiparallel.

Be able to describe the chemical bonds involved in the holding the deoxyribose units together as well as the bonds connecting the two strands of the double helix. Deoxyribose: covalent bonds. Between the two strands: hydrogen bonds.

Know the numbering system of the deoxyribose component What is meant by the phrase 5' to 3' direction? How DNA is synthesized.

Where on the deoxyribose component are new nucleotides added during DNA synthesis? They're added to the 3' end (OH).

Which bases are complimentary? Know how many hydrogen bonds exist between each pair of bases. G to C, A to T. G/C have 3 hydrogen bonds, A/T have 2 hydrogen bonds, making G/C more stable.

What 3 things are needed for DNA replication? Something to copy (parental DNA molecule), something to do the copying (enzymes), building blocks to make the copy (nucleotide triphosphates).

Name the three steps of DNA replication. Initiation (replication begins), elongation (new strands of DNA are synthesized by DNA polymerase), termination (replication is terminated)

During DNA synthesis, what provides the energy required for the process? The breaking of the high energy bonds of the triphosphate of each nucleotide triphosphate

What is pyrophosphate? How does it contribute to DNA synthesis? The formation of a phosphodiester bond releases pyrophosphate; the hydrolysis of pyrophosphate drives the reaction forward.

Describe the properties common to all DNA polymerases. Add nucleotides to only the free 3' end of a growing DNA strand. Thus a new DNA strand elongates only in the 5' to 3' direction. DNA Polymerase III is the enzyme responsible for the addition of nucleotides to the new DNA strand.

How do the properties of DNA and DNA polymerase affect the synthesis of DNA. Specifically, why does the antiparallel structure of DNA cause a problem for replication? One parental strand is oriented 3' to 5' into the fork, the other antiparallel parental strand is oriented 5' to 3' into the fork.

Describe the synthesis of the leading and lagging strand in detail. Include in this description the role of helicase, DNA gyrase, single strand binding proteins, beta subunit of DNA polymerase, DNA polymerase III, DNA polymerase I and DNA ligase. Helicase- untwists and separates the template DNA strands at the replication fork. Single-strand binding proteins- keep the unpaired template

Section Dna Replication Study Guide

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Section Dna Replication Study Guide:

AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test *NBDE Part I-Biochemistry Specialty Review and Study Guide* Herbert Levin, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing *PTCB Exam Study Guide* Michael R Simmons, Feeling overwhelmed by the PTCB exam You're not alone Studying for the Pharmacy Technician Certification Exam can feel like a daunting challenge With so much information to cover and limited time to prepare it's easy to feel lost But what if you had a structured easy to follow system that helps you study smarter not harder This comprehensive study guide is designed to streamline your preparation ensuring you focus on what truly matters Whether you have months to prepare or just a few weeks this book provides a step by step roadmap to mastering key concepts and boosting your confidence before test day What You'll Get in This PTCB Exam Guide Complete Coverage of Exam Topics Organized into 10 essential modules covering everything from pharmacology and federal regulations to sterile compounding pharmacy calculations and medication safety Five Full Length Practice Tests 90 questions each 450 total to simulate real exam conditions and help you build test taking confidence Five Section Wise Practice Tests A total of 300 questions including 50 dedicated pharmacy math questions ensuring mastery of fundamental concepts 200 Printable Flashcards Reinforce key terms drug classifications and essential pharmacy concepts for fast recall Detailed Answer Explanations Understand not just what the correct answers are but why they are correct Proven Test Taking Strategies Learn time management techniques question answering tactics and methods to minimize test anxiety Your Step by Step Path to Success Master Core Concepts Each module provides clear explanations real world examples and simplified breakdowns of complex topics Practice Like a Pro Apply your knowledge with targeted Q & A sessions that mirror the actual exam format Simulate Exam Day Take full length practice tests under timed conditions to build endurance and reduce stress Review and Reinforce Use answer explanations and flashcards to pinpoint weak areas and boost retention Pass Your PTCB Exam with Confidence Don't waste time on outdated or overwhelming materials This expertly crafted guide delivers everything you need to ace the exam on your first try without the guesswork Get your copy today and take the first step toward your pharmacy technician career **Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying

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Study Guide and Solutions Manual Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities *Plant Physiology, 4th Edition* Pandey S.N. & Sinha B.K., 2009-11-01 Plant Physiology lucidly explains the operational mechanisms of plants based on up to date literature and with the help of numerous illustrations In addition to the theoretical aspects experiments have been incorporated at the end of relevant chapters The book with its compilations of vast literature and its lucid presentation will certainly be useful to undergraduate and postgraduate students It will also be of help to students preparing for various competitions including IAS PCS and Medical Entrance Examinations of various boards *Pediatric Specialty Review and Study Guide* Beth Rainier, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing **Nephrology Specialty Review and Study Guide** William Johnson, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing

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Table of Contents Section Dna Replication Study Guide

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

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