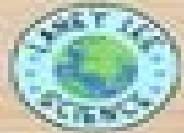


DNA REPLICATION



DNA REPLICATION

Name: _____

What happens to the DNA double helix?

During copying, the DNA double helix must be unwound. This is done by an enzyme called **helicase**. Helicase breaks the hydrogen bonds between the base pairs, separating the two strands. This creates a replication fork. The two strands are then used as templates to synthesize new DNA strands. The new strands are synthesized in the opposite direction to the template strands. This is done by an enzyme called **DNA polymerase**. The new strands are synthesized in the opposite direction to the template strands. This is done by an enzyme called **DNA polymerase**.

The direction of DNA synthesis

DNA synthesis always occurs in the 5' to 3' direction. This is because the sugar-phosphate backbone of DNA is made of deoxyribose sugars and phosphate groups. The phosphate groups are attached to the 5' carbon of the sugar, and the deoxyribose sugars are attached to the 3' carbon of the sugar. This means that the sugar-phosphate backbone is always oriented in the 5' to 3' direction. Therefore, DNA synthesis must also occur in the 5' to 3' direction.

Template strand synthesis

The template strand is the original strand that is used to synthesize a new strand. The template strand is synthesized in the 3' to 5' direction. This is because the sugar-phosphate backbone of the template strand is oriented in the 3' to 5' direction. Therefore, the template strand is synthesized in the 3' to 5' direction.

The leading strand synthesis

The leading strand is the new strand that is synthesized continuously. The leading strand is synthesized in the 5' to 3' direction. This is because the sugar-phosphate backbone of the leading strand is oriented in the 5' to 3' direction. Therefore, the leading strand is synthesized in the 5' to 3' direction.

The lagging strand synthesis

The lagging strand is the new strand that is synthesized discontinuously. The lagging strand is synthesized in the 3' to 5' direction. This is because the sugar-phosphate backbone of the lagging strand is oriented in the 3' to 5' direction. Therefore, the lagging strand is synthesized in the 3' to 5' direction.

Diagram of DNA replication

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The lagging strand is the new strand that is synthesized discontinuously. The lagging strand is synthesized in the 3' to 5' direction. This is because the sugar-phosphate backbone of the lagging strand is oriented in the 3' to 5' direction. Therefore, the lagging strand is synthesized in the 3' to 5' direction.

Diagram of DNA replication

DNA REPLICATION

Name: _____

1. What is the function of helicase?

2. Describe the structure of DNA. What are the main parts of DNA?

3. What is the sugar-phosphate backbone?

4. What is the base pairing rule?

5. What is the direction of DNA synthesis?

6. What is the leading strand?

7. What is the lagging strand?

8. What is the function of DNA polymerase?

9. What is the function of DNA ligase?

10. What is the function of RNA polymerase?

11. What is the function of ribosomes?

12. What is the function of tRNA?

13. What is the function of mRNA?

14. What is the function of the nucleus?

15. What is the function of the cell membrane?

16. What is the function of the cytoplasm?

17. What is the function of the mitochondria?

18. What is the function of the chloroplasts?

19. What is the function of the Golgi apparatus?

20. What is the function of the lysosomes?

21. What is the function of the peroxisomes?

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24. What is the function of the cilia?

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26. What is the function of the microtubules?

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28. What is the function of the intermediate filaments?

29. What is the function of the nuclear envelope?

30. What is the function of the nuclear pore?

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32. What is the function of the nuclear matrix?

33. What is the function of the nuclear skeleton?

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Genomes 5 Terry A. Brown, 2023-04-28 Genomes 5 has been completely revised and updated It is a thoroughly modern textbook about genomes and how they are investigated As with previous Genomes editions techniques come first then genome anatomies followed by genome function and finally genome evolution The genomes of all types of organism are covered viruses bacteria fungi plants and animals including humans and other hominids Genome sequencing and assembly methods have been thoroughly revised to include new developments in long read DNA sequencing Coverage of genome annotation emphasizes genome wide RNA mapping with CRISPR Cas 9 and GWAS methods of determining gene function covered The knowledge gained from these techniques forms the basis of the chapters that describe the three main types of genomes eukaryotic prokaryotic including eukaryotic organelles and viral including mobile genetic elements Coverage of genome expression and replication is truly genomic concentrating on the genome wide implications of DNA packaging epigenome modifications DNA binding proteins non coding RNAs regulatory genome sequences and protein protein interactions Also included are examples of the applications of metabolomics and systems biology The final chapter is on genome evolution including the evolution of the epigenome using genomics to study human evolution and using population genomics to advance plant breeding Established methods of molecular biology are included if

they are still relevant today and there is always an explanation as to why the method is still important Genomes 5 is the ideal text for upper level courses focused on genomes and genomics Key Features A highly accessible and well structured book with chapters organized into four parts to aid navigation Superb artwork illustrates the key concepts and mechanisms Each chapter has a set of short answer questions and in depth problems to test the reader s understanding of the material Thoroughly up to date with references to the latest research from the 2020s Graduate Aptitude Test Biotechnology [DBT-PG] Question Bank Book 3000+ Questions With Detail Explanation DIWAKAR EDUCATION HUB ,2024-03-07 Graduate Aptitude Test Biotechnology DBT PG Practice Sets 3000 Question Answer Chapter Wise Book As Per Updated Syllabus Highlights of Question Answer Covered All 13 Chapters of Latest Syllabus Question As Per Syllabus The Chapters are 1 Biomolecules structure and functions 2 Viruses structure and classification 3 Prokaryotic and eukaryotic cell structure 4 Molecular structure of genes and chromosomes 5 Major bioinformatics resources and search tools 6 Restriction and modification enzyme 7 Production of secondary metabolites by plant suspension cultures 8 Animal cell culture media composition and growth conditions 9 Chemical engineering principles applied to biological system 10 Engineering principle of bioprocessing 11 Tissue culture and its application In Each Chapter Unit Given 230 With Explanation In Each Unit You Will Get 230 Question Answer Based on Exam Pattern Total 3000 Questions Answer with Explanation Design by Professor JRF Qualified Faculties *Biochemistry Question-Answer* Mr. Rohit Manglik,2024-07-30 A concise collection of frequently asked questions and answers in biochemistry useful for exam preparation and concept reinforcement **Genomes 4** T. A. Brown,2018-12-07 Genomes 4 has been completely revised and updated It is a thoroughly modern textbook about genomes and how they are investigated As with Genomes 3 techniques come first then genome anatomies followed by genome function and finally genome evolution The genomes of all types of organism are covered viruses bacteria fungi plants and animals including humans and other hominids Genome sequencing and assembly methods have been thoroughly revised including a survey of four genome projects human Neanderthal giant panda and barley Coverage of genome annotation emphasizes genome wide RNA mapping with CRISPR Cas 9 and GWAS methods of determining gene function covered The knowledge gained from these techniques forms the basis of the three chapters that describe the three main types of genomes eukaryotic prokaryotic including eukaryotic organelles and viral including mobile genetic elements Coverage of genome expression and replication is truly genomic concentrating on the genome wide implications of DNA packaging epigenome modifications DNA binding proteins non coding RNAs regulatory genome sequences and protein protein interactions Also included are applications of transcriptome analysis metabolomics and systems biology The final chapter is on genome evolution focusing on the evolution of the epigenome using genomics to study human evolution and using population genomics to advance plant breeding Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still important Each chapter has a set of short answer questions in depth problems and

annotated further reading There is also an extensive glossary Genomes 4 is the ideal text for upper level courses focused on genomes and genomics

Epigenetics in Human Disease Trygve Tollefsbol, 2012-07-26 Epigenetics is one of the fastest growing fields of sciences illuminating studies of human diseases by looking beyond genetic make up and acknowledging that outside factors play a role in gene expression The goal of this volume is to highlight those diseases or conditions for which we have advanced knowledge of epigenetic factors such as cancer autoimmune disorders and aging as well as those that are yielding exciting breakthroughs in epigenetics such as diabetes neurobiological disorders and cardiovascular disease Where applicable attempts are made to not only detail the role of epigenetics in the etiology progression diagnosis and prognosis of these diseases but also novel epigenetic approaches to the treatment of these diseases Chapters are also presented on human imprinting disorders respiratory diseases infectious diseases and gynecological and reproductive diseases Since epigenetics plays a major role in the aging process advances in the epigenetics of aging are highly relevant to many age related human diseases Therefore this volume closes with chapters on aging epigenetics and breakthroughs that have been made to delay the aging process through epigenetic approaches With its translational focus this book will serve as valuable reference for both basic scientists and clinicians alike Comprehensive coverage of fundamental and emergent science and clinical usage Side by side coverage of the basis of epigenetic diseases and their treatments Evaluation of recent epigenetic clinical breakthroughs

EJB Reviews 1990 P. Christen, E. Hofmann, 2012-12-06 In the mid 1980s the European Journal of Biochemistry set out to publish review articles The enterprise proved successful resulting in high level reviews written by well known scientists appearing in the Journal The reviews represent emerging and rapidly growing fields of research in fundamental as well as applied areas of biochemistry such as medicine biotechnology agriculture and nutrition Novel methodological and technological approaches which stimulate biochemical research are also included The authors of the reviews are explicitly asked to be critical selective evaluative and interdisciplinarily oriented The reviews should encourage young scientists toward independent and creative thinking and inform active investigators about the state of the art in a given field

Biochemistry and Molecular Biology Despo Papachristodoulou, Alison Snape, William H. Elliott, Daphne C. Elliott, 2014 Preceded by Biochemistry and molecular biology William H Elliott Daphne C Elliott 4th ed 2009

Student Study Guide for Biology [by] Campbell/Reece Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests

Fundamentals of Biochemistry Destin Heilman, Stephen Woski, Donald Voet, Judith G. Voet, Charlotte W. Pratt, 2024-04-23 Fundamentals of Biochemistry 6th edition with new authors Destin Heilman and Stephen Woski provides a solid biochemical foundation that is rooted in chemistry while presenting complete and balanced coverage that is clearly written and relevant to human health and disease This edition includes new pedagogy and enhanced visuals that better adapt the text for the modern student including a focus on enhanced self assessment tools and scaffolding of learning outcomes throughout the text The new authors continue the

trusted pedagogy of the previous five editions and present approachable balanced coverage to provide students with a solid biochemical foundation to prepare them for future scientific challenges The pedagogy remains focused on biochemistry's key theme the relationship between structure and function while streamlining the student experience to better focus attention on the critical subject matter Fundamentals of Biochemistry 6e includes a significant update to the art program with modernized more effective renderings that better enable understanding of the subject matter New scaffolded learning outcomes in each section and a focus on self assessment tools both streamline and elevate the effectiveness of the new edition as a critical learning resource for biochemistry students

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Genomes 3 Terence A. Brown, 2007 The VitalBook e book version of *Genomes 3* is only available in the US and Canada at the present time To purchase or rent please visit <http://store.vitalsource.com/show/9780815341383> Covering molecular genetics from the basics through to genome expression and molecular phylogenetics *Genomes 3* is the latest edition of this pioneering textbook Updated to incorporate the recent major advances *Genomes 3* is an invaluable companion for any undergraduate throughout their studies in molecular genetics *Genomes 3* builds on the achievements of the previous two editions by putting genomes rather than genes at the centre of molecular genetics teaching Recognizing that molecular biology research was being driven more by genome sequencing and functional analysis than by research into genes this approach has gathered momentum in recent years *Alcamo's Fundamentals of Microbiology*, **Viruses** Susan Payne, 2022-09-23 *Viruses From Understanding to Investigation* Second Edition presents the definitions and unique characteristics of viruses The book includes major topics such as virus lifecycle structure taxonomy evolution history host virus interactions and methods to study In addition the book assesses the connections between the aforementioned topics and provides an integrated approach and in depth understanding of how viruses work The new edition also provides an expanded methods chapter containing new information on deep sequencing for in virus identification mathematical formulas to calculate titers and a description of quantitative PCR for enumerating viruses The vaccine chapter has been updated to include vaccine efficacy mRNA vaccines and SARS CoV 2 vaccine development The viral pathogenesis chapter has been

expanded to include mechanisms of virally induced cancers Viral taxonomy sections have been updated and chapters revised to accommodate new virus family designations New chapters include nucleocytoplasmic viruses very large DNA viruses replication of viroids and COVID 19 SARS CoV 2 Employs a comparative strategy to emphasize unique structural and molecular characteristics that inform transmission disease processes vaccine strategies and host responses Presents a review of host cell molecular biology and the immune system Features topical areas of research including genomics in virus discovery the virome and beneficial interactions between viruses and their hosts Includes text boxes throughout with experimental approaches used by virologists Covers learning objectives in each chapter

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Table of Contents The Replication Of Dna Directed Reading Answers

1. Understanding the eBook The Replication Of Dna Directed Reading Answers
 - The Rise of Digital Reading The Replication Of Dna Directed Reading Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying The Replication Of Dna Directed Reading Answers
 - 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 The Replication Of Dna Directed Reading Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Replication Of Dna Directed Reading Answers
 - Personalized Recommendations
 - The Replication Of Dna Directed Reading Answers User Reviews and Ratings
 - The Replication Of Dna Directed Reading Answers and Bestseller Lists
5. Accessing The Replication Of Dna Directed Reading Answers Free and Paid eBooks

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