

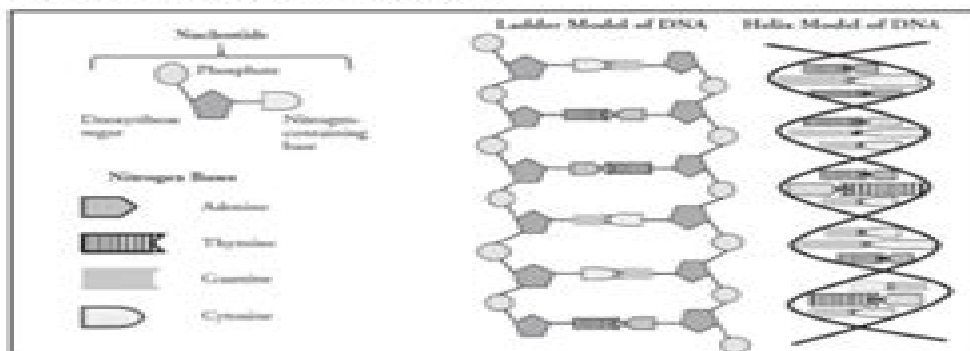
## POGIL – DNA Structure and Replication

*How is genetic information stored and copied?*

### Why?

Deoxyribonucleic acid or **DNA** is the molecule of heredity. It contains the genetic blueprint for life. For organisms to grow and repair damaged cells, each cell must be capable of accurately copying itself. So how does the structure of DNA allow it to copy itself so accurately?

### Model 1 – The Structure of DNA



#### 1. Refer to the diagram in Model 1.

- What are the three parts of a nucleotide?
- What kind of sugar is found in a nucleotide?
- Which nucleotide component contains nitrogen?
- Name the four nitrogen bases shown in Model 1.

#### 2. DNA is often drawn in a "ladder model." Locate this drawing in Model 1.

- Circle a single nucleotide on each side of the ladder model of DNA.

- What part(s) of the nucleotides make up the rungs of the "ladder"?
- What parts of the nucleotides make up the sides (backbone) of the "ladder"?
- Look at the bottom and top of the "ladder" in Model 1. Are the rungs parallel (the ends of the strands match) or antiparallel (the ends of the strands are opposites)? Describe what antiparallel means.
- Label the 5' and 3' end of each strand in the ladder model of DNA in Model 1.

3. The two strands of DNA are held together with hydrogen bonds between the nitrogen bases. These are weak bonds between polar molecules. Which bases are paired together with hydrogen bonds? How many hydrogen bonds connect the bases of each pair? Draw and label a diagram showing each base pairing.

**READ:** Erwin Chargaff (1906–2002), an Austrian-American biochemist, investigated the ratio of nucleotide bases found in the DNA from a variety of organisms. From his research, as well as research by Rosalind Franklin and Maurice Wilkins, Watson and Crick developed the complementary base-pair rule during their race to discover the structure of DNA. The complementary base-pair rule states that adenine and thymine form pairs across two strands, and guanine and cytosine form pairs across two strands.

#### 4. Fill in the complementary bases on the strand below according to the base-pair rule.

5' - A T C C A G C G G T C A A - 3'

5. The proportions of the bases are consistent within a species; however, they do vary between species. Using the base-pair rules, complete the following table to show the percentage of each type of base in the three different organisms.

Organism	Percentage of each type of base			
	Adenine	Guanine	Cytosine	Thymine
Human		31		19
Cow	28		22	
Salmon	21			

# Pogil Dna Structure And Replication Answers

**Mirko Beljanski**



## **Pogil Dna Structure And Replication Answers:**

*DNA Structure and Replication*, 19?? **DNA Structure and Replication** Khalid Majid Fazili, Syed Tanveer, 2012-01 The field of Molecular Biology continues to attract and excite the students of all branches of life sciences including biology and Medicine The text covers two basic but very important aspects of Molecular Biology DNA structure and replication Some of the aspects of DNA structure which the beginners usually find difficult to follow and understand from the usual texts have been discussed and simplified DNA replication in prokaryotic organisms has been explained Eukaryotic DNA and its replication has also been covered The text though appears comprehensive is basically meant for the beginners **DNA Replication and Related Cellular Processes** Jelena Kusic-Tisma, 2011-09-26 Since the discovery of the DNA structure researchers have been highly interested in the molecular basis of genome inheritance This book covers a wide range of aspects and issues related to the field of DNA replication The association between genome replication repair and recombination is also addressed as well as summaries of recent work of the replication cycles of prokaryotic and eukaryotic viruses The reader will gain an overview of our current understanding of DNA replication and related cellular processes and useful resources for further reading **DNA Structure and Function** Richard R. Sinden, 1994-11-10 DNA Structure and Function a timely and comprehensive resource is intended for any student or scientist interested in DNA structure and its biological implications The book provides a simple yet comprehensive introduction to nearly all aspects of DNA structure It also explains current ideas on the biological significance of classic and alternative DNA conformations Suitable for graduate courses on DNA structure and nucleic acids the text is also excellent supplemental reading for courses in general biochemistry molecular biology and genetics Explains basic DNA Structure and function clearly and simply Contains up to date coverage of cruciforms Z DNA triplex DNA and other DNA conformations Discusses DNA protein interactions chromosomal organization and biological implications of structure Highlights key experiments and ideas within boxed sections Illustrated with 150 diagrams and figures that convey structural and experimental concepts *DNA Structure Replication Mutation* Roland Rodriguez, Gene Organisation, Replication and Repair Mr. Rohit Manglik, 2024-06-24 Covers DNA structure replication and repair mechanisms focusing on molecular processes and their implications in genetic stability and disease DNA Replication Sonya Vengrova, Jacob Z. Dalgaard, 2016-08-23 Since the discovery of DNA structure and throughout the ensuing DNA era the field of DNA replication has expanded to cover a vast number of experimental systems In DNA Replication Methods and Protocols expert researchers present a collection of techniques and approaches used to investigate DNA replication with an emphasis on the most recent technological developments Beginning with several informative introductory review chapters this extensive volume is organized for clarity while fully encouraging innovation by the mixing of methods to create new techniques Written in the highly successful Methods in Molecular Biology™ series format chapters contain brief introductions to the topics lists of the necessary materials and reagents step by step readily

reproducible laboratory protocols and notes on troubleshooting and avoiding known pitfalls Comprehensive and cutting edge DNA Replication Methods and Protocols provides an excellent tool for both established laboratories and individuals new to this exciting field of research      **DNA Replication and Related Cellular Processes** Jelena Kusic-Tisma,2011 Since the discovery of the DNA structure researchers have been highly interested in the molecular basis of genome inheritance This book covers a wide range of aspects and issues related to the field of DNA replication The association between genome replication repair and recombination is also addressed as well as summaries of recent work of the replication cycles of prokaryotic and eukaryotic viruses The reader will gain an overview of our current understanding of DNA replication and related cellular processes and useful resources for further reading      **DNA and RNA** Linley Erin Hall,2010-08-15 Introduces DNA and RNA discussing how heredity works what can happen when the code goes wrong replication and new advances in science and technology      **The Initiation of DNA Replication** Dan S Ray,2012-12-02 The Initiation of DNA Replication contains the proceedings of the 1981 ICN UCLA Symposia on Structure and DNA Protein Interactions of Replication Origins held in Salt Lake City Utah on March 8 13 1981 The papers explore the initiation of DNA replication and address relevant topics such as whether there are specific protein recognition sites within an origin how many proteins interact at an origin and whether they interact in a specific temporal sequence or whether origins can be subdivided into distinct functional domains The specific biochemical steps in DNA chain initiation and how they are catalyzed are also discussed This book is organized into six sections and comprised of 41 chapters The discussion begins by analyzing the replication origin region of the Escherichia coli chromosome and the precise location of the region carrying autonomous replicating function A genetic map of the replication and incompatibility regions of the resistance plasmids R100 and R1 is described and several gene products produced in vivo or in vitro from the replication region are considered The sections that follow focus on the DNA initiation determinants of bacteriophage M13 and of chimeric derivatives carrying foreign replication determinants suppressor loci in E coli and enzymes and proteins involved in initiation of phage and bacterial chromosomes The final chapters examine the origins of eukaryotic replication This book will be of interest to scientists students and researchers in fields ranging from microbiology and molecular biology to biochemistry molecular genetics and physiology      Molecular Themes in DNA Replication Lynne Suzanne Cox,2009 Written by leading experts this learned but accessible book highlights the latest work on eukaryotic DNA replication      The Mystery of DNA Replication Karl G. Lark,1980      DNA Structure and Function The Open The Open Courses Library,2019-11-07 DNA Structure and Function Biology The three letters DNA have now become synonymous with crime solving and genetic testing DNA can be retrieved from hair blood or saliva Each person s DNA is unique and it is possible to detect differences between individuals within a species on the basis of these unique features DNA analysis has many practical applications beyond forensics In humans DNA testing is applied to numerous uses determining paternity tracing genealogy identifying pathogens archeological research

tracing disease outbreaks and studying human migration patterns In the medical field DNA is used in diagnostics new vaccine development and cancer therapy It is now possible to determine predisposition to diseases by looking at genes

Chapter Outline Historical Basis of Modern Understanding DNA Structure and Sequencing Basics of DNA Replication DNA Replication in Prokaryotes DNA Replication in Eukaryotes DNA Repair The Open Courses Library introduces you to the best Open Source Courses

**DNA Structure and Recognition** Stephen Neidle,1994 This book is a concise comprehensive survey of DNA structure from first principles to the ways in which drugs and proteins interact with DNA Such an understanding of DNA structure is essential for more detailed study in areas such as gene regulation and DNA targeted drug action

**DNA Replication** Herve Seligmann,2011-08-01 The study of DNA advanced human knowledge in a way comparable to the major theories in physics surpassed only by discoveries such as fire or the number zero However it also created conceptual shortcuts beliefs and misunderstandings that obscure the natural phenomena hindering its better understanding The deep conviction that no human knowledge is perfect but only perfectible should function as a fair safeguard against scientific dogmatism and enable open discussion With this aim this book will offer to its readers 30 chapters on current trends in the field of DNA replication As several contributions in this book show the study of DNA will continue for a while to be a leading front of scientific activities

**Exploring DNA Structure** Sandra Porter (Ph. D.),2005

**The Regulation of DNA Replication and Transcription** Mirko Beljanski,2013-03-26 The Regulation of DNA Replication and Transcription explores basic processes of DNA replication and transcription in an effort to identify the mechanisms responsible for the release of genetic information and its role in the regulation of cellular events Concerned with discovering the fundamental concept that might integrate and explain the wide range of existing lines of evidence the author reports and interprets the results of experiments conducted in an impressive range of biological systems Focused on complex mechanisms at the biochemical level these studies allow analysis of the pathways involved when cells organs and animal systems react to various trigger molecules derived from both living cells and exogenous sources These include hormones RNA RNA fragments alkaloids actinomycin D and phorbol esters as well as chemical carcinogens and drugs Combining the results of these studies with his own extensive work in this field the author is able to formulate a uniquely integrative biochemical model for the gene expression demonstrating that both biological and chemically synthesized molecules can trigger the differential release of information from the DNA and thus influence cell transformation Apart from its academic significance the model offers high potential assistance in the search for ways to induce or control the expression of certain genes and moreover to promote differentiation of given cells in vitro as well as in situ

***DNA Structure Puzzles*** Clive Delmonte,2000

**Understanding DNA** Chris R. Calladine,Horace Drew,Ben Luisi,Andrew Travers,2004-03-13 The functional properties of any molecule are directly related to and affected by its structure This is especially true for DNA the molecular that carries the code for all life on earth The third edition of Understanding DNA has been entirely revised and updated and expanded to cover new advances

in our understanding It explains step by step how DNA forms specific structures the nature of these structures and how they fundamentally affect the biological processes of transcription and replication Written in a clear concise and lively fashion Understanding DNA is essential reading for all molecular biology biochemistry and genetics students to newcomers to the field from other areas such as chemistry or physics and even for seasoned researchers who really want to understand DNA Describes the basic units of DNA and how these form the double helix and the various types of DNA double helix Outlines the methods used to study DNA structure Contains over 130 illustrations some in full color as well as exercises and further readings to stimulate student comprehension

**Replicating And Repairing The Genome: From Basic Mechanisms To Modern Genetic Technologies** Kenneth N Kreuzer, 2020-03-16 Replicating and Repairing the Genome provides a concise overview of the fields of DNA replication and repair The book is particularly appropriate for graduate students and advanced undergraduates and scientists entering the field or working in related fields The breadth of information regarding DNA replication and repair is vast and often difficult to absorb with terminology that differs between experimental systems and with complex interconnections of these processes with other cellular pathways This book provides simple conceptual descriptions of replication and repair pathways using mostly generic protein names laying out the logic for how the pathways function and highlighting fascinating aspects of the underlying biochemical mechanisms and biology The book incorporates extensive and informative diagrams and figures as well as descriptions of a number of carefully chosen experiments that had major influences in the field The process of DNA replication is explained progressively by starting with the system of a simple bacterial virus that uses only a few proteins followed by the well understood bacterial E coli system and then culminating with the more complex eukaryotic systems In the second half of the book individual chapters cover key areas of DNA repair postreplication repair of mismatches and incorporated ribonucleotides direct damage reversal excision repair and DNA break repair as well as the related areas of DNA damage tolerance including translesion DNA polymerases and DNA damage responses The book closes with chapters that describe the huge impact of DNA replication and repair on aspects of human health and on modern biotechnology

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