

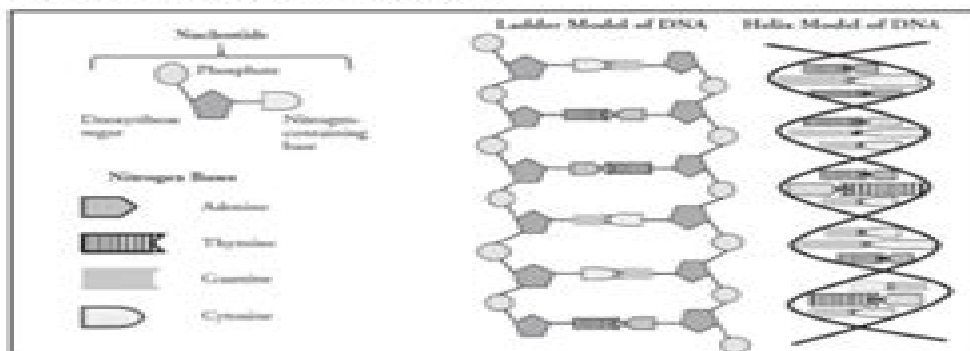
## POGIL – DNA Structure and Replication

*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			

# Dna Replication Ap Pogil

**Ying Liu**



## **Dna Replication Ap Pogil:**

**Science Citation Index**, 1993 Vols for 1964 have guides and journal lists      *DNA Repair and Replication*, 2004-12-24  
DNA Repair and Replication contains an up to date review of general principles of DNA replication and an overview of the multiple pathways involved in DNA repair Specific DNA repair pathways including base excision repair light dependent direct reversal of UV damage nucleotide excision repair transcription coupled repair double strand break repair and mismatch repair are each discussed in separate chapters Selected Contents Base Excision Repair Eukaryotic DNA Mismatch Repair Double Strand Break Repair Functions of DNA Polymerases Somatic Hypermutation A Mutational Panacea      *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      Mechanism and Regulation of DNA Replication Alan Kolber, 2012-12-06 1 Chromosome Replication in Procaryotes Enzymatic Aspects of Chromosome Replication in E coli Escherichia coli DNA Polymerase II and III Initiation of DNA Synthesis In vitro Replication of DNA The Role of ATP in Chromosome Replication Studied in Toluenuized Escherichia coli Membrane Protein Components and DNA Synthesis in Escherichia coli A Possible Common Role for DNA Polymerase I and Exonuclease V in Escherichia coli The Joining of DNA Duplexes at Their Base Paired Ends The Attachment of the Bacterial Chromosome to the Cell Membrane DNA Replication in Bacteriophage and      *DNA Replication* Judith L. Campbell, 1995-10-11 The critically acclaimed laboratory standard for forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike More than 250 volumes have been published all of them still in print and much of the material is relevant even today truly an essential publication for researchers in all fields of life sciences Key Features Includes descriptions of functional structural kinetic and genetic methods for analyzing major enzymes of DNA replication Describes strategies for studying interactions of these proteins during replication Provides comprehensive descriptions of uses of prokaryotic and eukaryotic crude in vitro replication systems and reconstitution of such systems from purified proteins Includes methods for analyzing DNA replication in vivo      **DNA Replication in Eukaryotic Cells** Melvin L. DePamphilis, 1996 National Institutes of Health Cold Spring Harbor Monograph Volume 31 Extensive text on the replication of DNA specifically in eukaryotic cells for researchers 68 contributors 54 U S      **Proteins Involved in DNA Replication** Ulrich Huebscher, 2013-06-29 This book collects the Proceedings of a workshop sponsored by the European

Molecular Biology Organization EMBO entitled Proteins Involved in DNA Replication which was held September 19 to 23 1983 at Vitznau near Lucerne in Switzerland The aim of this workshop was to review and discuss the status of our knowledge on the intricate array of enzymes and proteins that allow the replication of the DNA Since the first discovery of a DNA polymerase in *Escherichia coli* by Arthur Kornberg twenty eight years ago a great number of enzymes and other proteins were described that are essential for this process different DNA polymerases DNA primases DNA dependent ATPases helicases DNA ligases DNA topoisomerases exo and endonucleases DNA binding proteins and others They are required for the initiation of a round of synthesis at each replication origin for the progress of the growing fork for the disentanglement of the replication product or for assuring the fidelity of the replication process The number variety and ways in which these proteins interact with DNA and with each other to the achievement of replication and to the maintenance of the physiological structure of the chromosomes is the subject of the contributions collected in this volume The presentations and discussions during this workshop reinforced the view that DNA replication in vivo can only be achieved through the cooperation of a high number of enzymes proteins and other cofactors

#### **DNA Replication: The Regulatory Mechanisms**

Patrick Hughes, Ellen Fanning, Masamichi Kohiyama, 2012-12-06 DNA replication is a key event in the cell cycle Although our knowledge is far from complete and many elusive regulatory mechanisms still remain beyond our grasp many enzymes and a multiplicity of biochemical mechanisms involved have been discovered Recent findings in *E. coli* have confirmed and yet surpassed the original hypothesis of F Jacob In yeast and higher eucaryotes the apparent redundancy in putative origins and initiators has made an estimation of the importance of each identified element difficult to access In spite of well established methodologies which are also described in the book the origin identification in mammalian chromosomes is still a controversial subject On the other hand considerable advances have been made in our understanding of virus DNA replication and this continues to deepen and broaden our understanding of the controls of cellular DNA replication

**mechanistic studies of DNA replication and genetic recombination** Bruce Alberts, 2012-12-02 Mechanistic Studies of DNA Replication and Genetic Recombination emerged from a symposium on DNA replication and genetic recombination held from March 16 to 21 1980 in Keystone Colorado The event featured 30 plenary session talks 13 workshop discussion groups and the 210 poster sessions The studies described in this book are paving the way for the elucidation of other basic genetic mechanisms including new areas in molecular genetics such as those of eukaryotic gene expression and the transposition of mobile genetic elements This book is divided into 10 parts summaries of workshop discussion groups Part I studies on eukaryotic model systems for DNA replication Part II studies on bacterial replication origins Part III studies on replication origins of bacterial phages and plasmids Part IV studies on eukaryotic replication origins Part V studies on prokaryotic replication enzymology Part VI studies on eukaryotic replication enzymology Part VII studies on the fidelity of DNA replication Part VIII studies on DNA topoisomerases Part IX and studies of genetic recombination mechanisms Part X

DNA Replication Hisao Masai,Marco Foiani,2018-01-22 This book reviews the latest trends and future directions of DNA replication research The contents reflect upon the principles that have been established through the genetic and enzymatic studies of bacterial viral and cellular replication during the past decades The book begins with a historical overview of the studies on eukaryotic DNA replication by Professor Thomas Kelly a pioneer of the field The following chapters include genome wide studies of replication origins and initiation factor binding as well as the timing of DNA replications mechanisms of initiation DNA chain elongation and termination of DNA replication the structural basis of functions of protein complexes responsible for execution of DNA replication cell cycle dependent regulation of DNA replication the nature of replication stress and cells strategy to deal with the stress and finally how all these phenomena are interconnected to genome instability and development of various diseases By reviewing the existing concepts ranging from the old principles to the newest ideas the book gives readers an opportunity to learn how the classical replication principles are now being modified and new concepts are being generated to explain how genome DNA replication is achieved with such high adaptability and plasticity With the development of new methods including cryoelectron microscopy analyses of huge protein complexes single molecular analyses of initiation and elongation of DNA replication and total reconstitution of eukaryotic DNA replication with purified factors the field is enjoying one of its most exciting moments and this highly timely book conveys that excitement to all interested readers

**Fundamental Aspects of DNA Replication** Jelena Kusic-Tisma,2011-09-26 DNA replication the process of copying one double stranded DNA molecule to produce two identical copies is at the heart of cell proliferation This book highlights new insights into the replication process in eukaryotes from the assembly of pre replication complex and features of DNA replication origins through polymerization mechanisms to propagation of epigenetic states It also covers cell cycle control of replication initiation and includes the latest on mechanisms of replication in prokaryotes The association between genome replication and transcription is also addressed We hope that readers will find this book interesting helpful and inspiring

**DNA Replication** Melvin L. DePamphilis,2002      **DNA Replication** J. L. (Ed.) CAMPBELL,1995      **DNA Replication, Recombination and Repair** ,1995      **DNA Synthesis** M. Kohiyama,2012-12-06 This book represents the proceedings of the NATO Advanced Study Institute held in Santa Flavia Sicily from the 20 29th June 1977 In addition to the review talks given by the Lecturers at the Institute it proved feasible for other topics to be splendidly reviewed This has led to a much wider subject coverage than would otherwise have been possible The discussion sessions which followed these review talks were extremely valuable and almost all the participants played an active role Essentially all of the verbal contributions presented at this ASI were subsequently put into written format which is why these proceedings are so extensive hey do however provide an up to date summary of DNA synthesis in a wide variety of subjects with many of the remaining problems clearly expressed The editing of these contributions has been essentially confined to alterations in style and presentation We have taken some liberties in the re organization of the papers into related sections We express our

thanks to those who helped organize the ASI and to the session conveners who attempted to confine and contain those who became too verbose We are indebted to NATO Scientific Affairs Division for the financial support that made this ASI possible Finally we express our gratitude to Miss Brenda Marriott She typed all seventy five papers in this book which was originally estimated to be less than half its present length and which just grew and grew She deserves our special thanks **New**

**Approaches in Eukaryotic DNA Replication** A. De Recondo, 2012-12-06 DNA replication in eukaryotes is an important field particularly because of its direct impact on the study of cancer The understanding of molecular mechanisms of replication and their regulation should allow a better comprehension of the alterations that lead to the proliferation of tumor cells and to error prone repair in cells exposed to radiation or chemical carcinogens During the last several years many enzymes and proteins which participate in replication of DNA in eukaryotic cells have been identified isolated and characterized New concepts in chromatin structure have refocused attention on the study of replication of DNA complexed with histones and non histone chromosomal proteins However progress has been noticeably slower than for prokaryotes essentially because of the difficulty in genetic analysis of eukaryotic DNA replication In June 1980 a workshop was organized in Cargèse Corsica France to facilitate exchanges of information between workers specializing in prokaryotes and those specializing in eukaryotes and to allow discussion of new experimental approaches With this in mind special interest has been taken in the origin and termination of chromosome cycles and how they are controlled *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 Synthesis and Its Regulation** Mehran Goulian, Philip C.

Hanawalt, 1975 **DNA Replication and the Cell Cycle** Gesellschaft für Biologische Chemie. Colloquium, 1993 Provided here is an easily accessible introduction to the mechanisms of DNA replication regulation and the biochemistry of cell cycle

control An overview of this rapidly developing field is presented to orient the reader followed by a series of contributions by leading researchers summarizing recent results on selected topics such as protein phosphorylation tumor suppressor genes and signal transduction in prokaryotic and eucaryotic systems The reader will gain an overview of our current understanding of DNA replication and the cell cycle and a selection of useful recent references for further reading

**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

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