

Name _____

Per _____

DNA and Replication

Part A:

1. What is the function of DNA in cells?
2. Describe the components and structure of a DNA nucleotide.
3. List the names and abbreviations of the 4 bases.
4. Why is DNA called a double helix?
5. What forms the sides of the DNA ladder?
6. What forms the rungs of the DNA ladder?
7. Where and in what form is eukaryotic DNA found?

Part B:

1. What is meant by the term base-pairing? How is base-pairing involved in DNA replication?
2. Explain how DNA is replicated. In your explanation, state the role of DNA polymerase and explain why the replication process is considered semi-conservative.

Skills Worksheet Directed Reading Section The Replication Of Dna

Mirko Beljanski



Skills Worksheet Directed Reading Section The Replication Of Dna:

Chapter Resource 11 Gene Technology Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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 J. L. (Ed.) CAMPBELL, 1995 **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 DNA Replication Melvin L. DePamphilis, 2002 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 **DNA Replication** Arthur Kornberg,1980

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 **DNA Replication, Recombination and Repair**, 1995 **The Mystery of**

DNA Replication Karl G. Lark, 1980 Dna Replication In Plants John A. Bryant, 2018-01-18 This text discusses DNA replication in plants including chapters on functional chromosomal structure the biochemistry of DNA replication Control of DNA replication Replication of plant organelle DNA replication of DNA viruses in plants and DNA damage repair and mutagenesis The Regulation of DNA Replication and Transcription Mirko Beljanski, 1983

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