

DNA Replication Webquest

Answer all questions in a **DIFFERENT COLOR** and **IN YOUR OWN WORDS**.

Watch the animations and answer these questions:

http://www.wiley.com/college/pratt/0471393878/student/animations/dna_replication/index.html

1. What is DNA replication? **The process where an entire double-stranded DNA is copied to produce a second, identical DNA double helix.**
2. How does DNA replicate? (highlight one) A. Conservatively **B. Semi-conservatively** C. Dispersively
3. Semi-conservative means **When each resulting DNA double helix retains one strand of the original DNA**
4. Watch section 3 in its entirety. Then define the function of the following players in DNA replication..... If needed, go back and watch it again.
 - a. Polymerase - **extends the DNA chain**
 - b. Helicase - **unwinds the DNA double helix into two individually strands**
 - c. Ligase - **links the short DNA chains**
 - d. Primase - **creates RNA primers**
 - e. SSB - **prevents reannealing**
5. What is the first step of DNA replication? **The two double helix strands are unwound and separated from each other by the helicase enzyme.**
6. How does the DNA get unwind and stay unwind? **Its get unwinded by the Helicase.**
7. What is the replication fork? **The point where the DNA is separated into single strands, and where new DNA will be synthesized. The area where the parental DNA strands are copied to create two daughter strands.**
8. In what direction can DNA polymerase make new strand of DNA? **It starts at the 3' end of the RNA primer and creates a new strand in the 5' to 3' order.**
9. In other words, DNA polymerase adds nucleotides to the '3 end of the DNA strand.
10. What is needed before DNA polymerase can start building a new DNA strand? **A template is always needed. They can't start making a DNA chain from scratch, only from the 3' end of the primer.**
11. Contrast the leading and lagging strands. **The leading strand is single DNA strand and is replicated in the 3' to 5' direction. The lagging strand one of two strands of the DNA at the replication fork and needs a slight delay. It is also synthesized as a series of Okazaki fragments.**
12. The short pieces of DNA formed on the lagging strand are called... **Okazaki fragments.**

Recombinant Dna Webquest Answers Key

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Recombinant Dna Webquest Answers Key:

DNA Science David A. Micklos, Greg A. Freyer, 1990 This laboratory text combines the theory practice and applications of recombinant DNA technology into one articulated package Unlike super texts that can only be sampled by even the most ambitious instructor or student *DNA Science* is designed to be read from cover to cover The eight text chapters are written in a semi journalistic style and adopt a historical perspective to explain where DNA science has come from and where it is going Combining the unique perspectives of both a research biologist and a science writer the topical treatment integrates up to the minute examples drawn directly from the research literature Extensively tested by thousands of high school and college teachers and students in 25 states and Canada the ten laboratory experiments cover the basic techniques of gene isolation and analysis The experiments engender systematic repetition to build student confidence and mastery of techniques Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare and flowcharts and icons make the protocols easy to follow The laboratory course is completely supported by quality assured Carolina Biological Supply Company products from bulk reagents to reusable reagent systems to single use kits satisfying a range of teaching applications Truly a first course in recombinant DNA technology the laboratory sequence presupposes no prior experience on the part of the instructor or student Structured to follow directly from an introduction to principles of biology the experiments are equally appropriate for the advanced high school student and the beginning college student The book can be used as the first course in a molecularbiology sequence be integrated as a genetics DNA structure component of a general biology course or be used as a unit within a microbiology or genetics course The text is suitable for introducing recombinant DNA in science and society courses

Enzymology Primer for Recombinant DNA Technology Hyone-Myong

Eun, 1996-06-03 Enzymes are indispensable tools in recombinant DNA technology and genetic engineering This book not only provides information for enzymologists but does so in a manner that will also aid nonenzymologists in making proper use of these biocatalysts in their research The *Enzymology Primer for Recombinant DNA Technology* includes information not usually found in the brief descriptions given in most books on recombinant DNA methodology and gene cloning Provides essential basics as well as up to date information on enzymes most commonly used in recombinant DNA technology Presents information in an easily accessible format to serve as a quick reference source Leads to a better understanding of the role of biocatalysts in recombinant DNA techniques

Recombinant DNA Laboratory Manual Judith W. Zyskind, Sanford I.

Bernstein, 2014-05-12 *Recombinant DNA Laboratory Manual* is a laboratory manual on the fundamentals of recombinant DNA techniques such as gel electrophoresis in vivo mutagenesis restriction mapping and DNA sequencing Procedures that are useful for studying either prokaryotes or eukaryotes are discussed and experiments are included to teach the fundamentals of recombinant DNA technology Hands on computer sessions are also included to teach students how to enter and manipulate sequence information Comprised of nine chapters this book begins with an introduction to bacterial growth

parameters how to measure bacterial cell growth and how to plot cell growth data The discussion then turns to the isolation and analysis of chromosomal DNA in bacteria and *Drosophila* plasmid DNA isolation and agarose gel analysis and introduction of DNA into cells Subsequent chapters deal with Tn5 mutagenesis of pBR329 DNA cloning in M13 DNA sequencing and DNA gel blotting probe preparation hybridization and hybrid detection The book concludes with an analysis of lambda phage manipulations This manual is intended for advanced undergraduate or beginning graduate students and should also be helpful to established investigators who are changing their research focus

An Introduction to Recombinant DNA Alan E. H. Emery, 1984-11-27 After presenting a brief historical review this introduction to recombinant DNA technology deals with the essentials of the technology and the light it has shed on the molecular basis of various genetic disorders as well as common diseases such as diabetes coronary artery disease and cancer The applications of the technology in prenatal diagnosis the synthesis of vaccines and other medically important products and treatments through gene therapy are also reviewed Some broader applications with respect to human evolution and various agricultural commercial and industrial uses are also discussed The final chapters of the book examine the biohazards ethical and legal problems raised by the technology and discuss possible future developments

Recombinant DNA Methodology, 2014-05-19 Recombinant DNA methods are powerful revolutionary techniques that allow the isolation of single genes in large amounts from a pool of thousands or millions of genes and the modification of these isolated genes or their regulatory regions for reintroduction into cells for expression at the RNA or protein levels These attributes lead to the solution of complex biological problems and the production of new and better products in the areas of medicine agriculture and industry Recombinant DNA Methodology a volume in the Selected Methods in Enzymology series produced in benchtop format contains a selection of key articles from Volumes 68 100 101 153 154 and 155 of Methods in Enzymology The essential and widely used procedures provided at an affordable price will be an invaluable aid to the graduate student and the researcher Enzymes in DNA research DNA isolation hybridization and cloning DNA sequence analysis cDNA cloning Gene products Identification of cloned genes and mapping of genes Monitoring cloned gene expression Cloning and transferring of genes into yeast cells Cloning and transferring of genes into plant cells Cloning and transferring of genes into animal cells Site directed mutagenesis Protein engineering Expression vectors

Recombinant DNA Technical Bulletin, 1977

Recombinant DNA Principles and Methodologies James Greene, 2021-12-16 This comprehensive yet balanced work emphasizes the principles and rationale underlying recombinant DNA methodology while furnishing a general understanding of the experimental protocols suggesting flexible approaches to resolving particular molecular necessities that are easily adaptable to readers specific applications Features summary tables presenting at a glance information on practices of recombinant DNA methodologies Recombinant DNA Principles and Methodologies discusses basic and advanced topics requisite to the employment of recombinant DNA technology such as plasmid biology nucleic acid biochemistry restriction enzymes cloning strategies gel electrophoresis southern and northern

blotting preparation of probes phage lambda biology cosmids and genome analysis cloned gene expression polymerase chain reaction conventional and automated DNA sequencing site directed mutagenesis and more Elucidating the material with over 2250 edifying references equations drawings and photographs this state of the art resource is a valuable hands on guide for molecular and cell biologists biochemists bioprocess technologists applied and industrial microbiologists virologists geneticists chemical engineers and upper level undergraduate and graduate students in these disciplines *Recombinant DNA* James D. Watson,1992 *Recombinant DNA Research* ,1976 *Recombinant DNA Technology* Aleš Prokop, **A Double Image of the Double Helix** Clifford Grobstein,1979 **Guidelines for Research Involving Recombinant DNA Molecules** National Institutes of Health (U.S.),1976 **Recombinant DNA and Biotechnology** Helen Kreuzer,1996 *The Recombinant DNA Debate* David Archer Jackson,Stephen P. Stich,1979 **Recombinant DNA [Deoxyribonucleic Acid] and genetic experimentation** ,1979 *Manipulation and Expression of Recombinant DNA* Susan Carson,Dominique Robertson,2006 This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology or gene cloning and expression The techniques used in basic research and biotechnology laboratories are covered in detail Students gain hands on experience from start to finish in subcloning a gene into an expression vector through purification of the recombinant protein The second edition has been completely re written with new laboratory exercises and all new illustrations and text designed for a typical 15 week semester rather than a 4 week intensive course The project approach to experiments was maintained students still follow a cloning project through to completion culminating in the purification of recombinant protein It takes advantage of the enhanced green fluorescent protein students can actually visualize positive clones following IPTG induction Cover basic concepts and techniques used in molecular biology research labs Student tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab Project approach to experiments gives students an overview of the entire process Prep list appendix contains necessary recipes and catalog numbers providing staff with detailed instructions **Recombinant DNA** David Freifelder,1978-01-01 Introductions by David Freifelder Molecular biology Genetic manipulation Controversysy__ *Recombinant DNA* Gregory Munro Lander,1977 **Recombinant DNA** James D. Watson,1992-02-15 An overview of recombitant DNA techniques and surveys advances in recombinant molecular genetics experimental methods and their results Recombinant DNA Methodology R. Wu,1989 Enzymes in recombinant DNA research DNA joining enzymes a review Guide to the use of type II restriction endonucleases Site specific cleavage of DNA at 8 9 and 10 bp sequences Exonuclease III use for DNA sequence analysis and in specific deletions of nucleotides Methods for isolation purification or amplification of DNA Gel electrophoresis of restriction fragments Purification specific fragmentation and separation of large DNA molecules Orthogonal field alternation gel electrophoresis A rapid alkaline extraction method for the isolation of plasmid DNA Specific synthesis of DNA in vitro via

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