

Recombinant DNA LAB - Making Paper Plasmids

Standard: 5c

Objective:

To understand how genes can be inserted into another DNA - "recombine"

To conceptualize "restriction enzymes" and recognition of specific sites

Students will model the process of using restriction enzymes and plasmids to form recombinant DNA.

The "Recombinant DNA Lab" activity can help you see how genes may be manipulated for genetic research, namely, gene cloning/genetic engineering. This activity will help you conceptualize the mechanics involved in cutting and ligating DNAs into a plasmid vector with "sticky ends" of complementary DNA base pairs.

Background Information

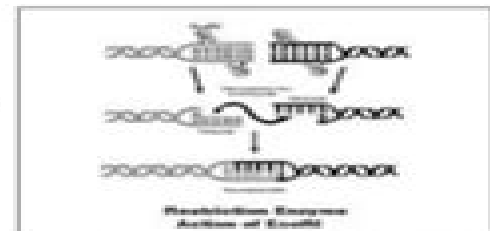
Recombinant DNA technology is one of the new techniques of biotechnology. Biotechnology uses living organisms to carry out chemical processes or to produce substances, combining biology with chemistry and science with industry. Biotechnology includes the field of **genetic engineering**, which is the science of directly manipulating genes to produce recombinant DNA. Genetic engineering techniques are used in a variety of industries, in agriculture, in basic research, and in medicine.

Through genetic engineering, there is great potential for the development of useful products. Researchers have already developed sources of interferon, human growth hormone, insulin, and resistant fruits and vegetables. A gene coding for a particular protein is transferred into a host organism. The host organism reproduces and the population produces the desired protein in volume. For example, the gene that codes for the production of human insulin has been inserted into the common bacterium *E. coli*. Then the bacteria can be grown in huge containers and large amounts of insulin can be collected.

As an introduction to recombinant DNA technology, the exercise that follows illustrates on paper some of the steps of recombinant DNA experiments done in laboratories.

Steps to Recombination

1. Scientists must first **identify the gene** that codes for the production of the protein they want to manufacture.
2. Next scientists must **isolate the desired gene**. Restriction enzymes from bacterial cells are important in this step. Each **restriction enzyme** recognizes and cleaves (cuts) a very specific sequence of DNA called a **restriction site**. Some restriction enzymes make a staggered cut of the DNA producing **sticky ends** or single strands of unpaired nucleotide bases capable of binding with complementary sticky ends. By using restriction enzymes that will cut the DNA on either side of the gene, the desired gene can be clipped out of the DNA strand.
3. Once the desired gene has been isolated scientists must then **insert the gene into a plasmid**. **Plasmids** are small circular pieces of DNA found naturally in most bacteria. The plasmid must be removed from a bacterium and cleaved with the same restriction enzyme used to isolate the gene. This way the sticky ends of the plasmid will match those of the gene.



Recombinant Paper Plasmids Lab Answers

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CBSE Class 12 Biology Previous Year Solved Paper Code 004 Chapterwise Questions with Videos and Online Test Papers Jaishree Soni,2025-08-01 We are pleased to present this compilation of CBSE Class 12th Biology Previous Year Solved Paper Code 004 Chapterwise Questions with Videos and Online Test Papers designed to help students prepare efficiently and strategically for their board examinations This book is structured to provide a clear understanding of each chapter by organizing previous years questions in a systematic topic wise format as per the latest CBSE syllabus and exam guidelines Biology is a subject that requires both theoretical clarity and the ability to apply concepts accurately in exams To bridge this gap we have provided thoroughly solved questions from actual board exams arranged chapter by chapter so students can strengthen their understanding one concept at a time **The American Biology Teacher** ,1998

Recombinant DNA Research ,1978-09 **Recombinant DNA Research** National Institutes of Health (U.S.),1976 Record of correspondence proceedings of conferences guidelines proposed and released public announcements etc documenting the role of the National Institutes of Health in the development and promulgation of the guidelines of June 23

Biology Class 12 CBSE Board 8 YEAR-WISE (2013 - 2020) Solved Papers powered with Concept Notes Disha Experts,2020-07-04 Biology Class 12 CBSE Board 10 YEAR-WISE (2013 - 2022) Solved Papers Powered with Concept Notes 2nd Edition Disha Experts,2022-06-15 The latest updated 2nd Edition of the book Biology Class 12 CBSE Board 10 Year wise 2013 2022 Solved Papers powered with Concept Notes is a must have book for aspirants who are looking for better score in exams The Book contains the Past 10 Year Solved Authentic CBSE Board Papers of Class 12 Physics In all the Book contains 18 Papers including the 2021 CBSE Sample Paper This paper has been included as this year the Board exams were cancelled The USP of the book is the inclusion of Concept Notes highlighting Tips Tricks Alternate solutions Points to Remember in various solutions Trend Analysis of 17 Papers 2013 2022 is provided to understand Question trend The Notes will help the students in further revision of syllabus 17 Authentic Papers CBSE All India CBSE Delhi with detailed solutions are provided Errorless Solutions with step by step marking scheme on the lines of CBSE Board and written in a way that any student can understand easily Applied and Environmental Microbiology ,1996 **CBSE Class 12 Biology Previous**

Year Solved Paper Code 004 With Videos and Online Test Papers Jaishree Soni,2025-08-01 We are delighted to present this comprehensive collection of CBSE Class 12th Biology Previous Year Solved Paper Code 004 With Videos and Online Test Papers Designed as a practical guide this book aims to assist students in achieving outstanding results in their CBSE board exams It features fully solved question papers based on the most recent syllabus and exam pattern issued by CBSE Science is a subject that requires a blend of conceptual understanding and practical application To perform well students need both a clear grasp of the concepts and effective exam writing techniques With this in mind this book offers a series of real board exam papers meticulously solved by subject matter experts helping students learn the proper approach to answering various

types of questions *Feature Papers* Michael Henson, 2018-10-04 This book is a printed edition of the Special Issue Feature Papers that was published in *Processes* **Chapter Resource 11 Gene Technology Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Recombinant Protein Drugs P. Buckel, 2012-12-06 Recombinant protein drugs are intimately associated with the impressive success story of the Biotech Industry during the past thirty years some of them belonging to the most successful pharmaceutical products More than thirty different proteins are available for a variety of clinical applications over 300 proteins are presently being evaluated in clinical trials In this new volume of the MDT series historical technical and clinical aspects of recombinant protein drug discovery and development are presented covering past present and future highlights Leading scientists and co founders of early Biotech companies describe technical breakthroughs and the fascinating story of pioneering discoveries as well as the long way of translating them into products and business Therefore this book represents an exciting documentation of the beginning of a new era in the pharmaceutical industry In addition scientists from basic research clinic and industry actively involved in new developments discuss

Addison-Wesley Biology Addison Wesley, 1996-04 **Genetics Abstracts** , 1995 *ASM News* , 2001 **The Polymerase Chain Reaction** Kary B. Mullis, Francois Ferre, Richard A. Gibbs, 2012-02-02 James D Watson When in late March of 1953 Francis Crick and I came to write the first Nature paper describing the double helical structure of the DNA molecule Francis had wanted to include a lengthy discussion of the genetic implications of a molecule whose structure we had divined from a minimum of experimental data and on theoretical arguments based on physical principles But I felt that this might be tempting fate given that we had not yet seen the detailed evidence from King's College Nevertheless we reached a compromise and decided to include a sentence that pointed to the biological significance of the molecule's key feature the complementary pairing of the bases It has not escaped our notice Francis wrote that the specific pairing that we have postulated immediately suggests a possible copying mechanism for the genetic material By May when we were writing the second Nature paper I was more confident that the proposed structure was at the very least substantially correct so that this second paper contains a discussion of molecular self duplication using templates or molds We pointed out that as a consequence of base pairing a DNA molecule has two chains that are complementary to each other Each chain could then act as a template for the formation on itself of a new companion chain so that eventually we shall have two pairs of chains where we only had one before and moreover Advances in Gammaproteobacteria Research and Application: 2013 Edition , 2013-06-21 *Advances in Gammaproteobacteria Research and Application 2013 Edition* is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Alteromonadaceae The editors have built *Advances in Gammaproteobacteria Research and Application 2013 Edition* on the vast information databases of ScholarlyNews You can expect the information about Alteromonadaceae in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Advances in Gammaproteobacteria Research and*

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Regulation of Recombinant DNA Research United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1978 Methods in Practical Laboratory Bacteriology Henrik Chart, 2018-05-04 The success of laboratory experiments relies heavily on the technical ability of the bench scientist with the aid of tricks of the trade to generate consistent and reliable data. Regrettably, however, these invaluable tricks of the trade are frequently omitted from scientific publications. This paucity of practical information relating to the conduct of laboratory bacteriology experiments creates a gaping void in the pertinent literature. Methods in Practical Laboratory Bacteriology fills this void. It provides detailed technical information that ensures that you achieve consistent and reliable data. The book addresses the aspects of bacterial fractionation and membrane characterization, the analysis of lipopolysaccharides, and the techniques of SDS PAGE immunoblotting and ELISA. It also describes the methods used for detecting and quantifying bacterial resistance to antibiotics and the analysis of bacterial chromosomes by pulsed field gel electrophoresis (PFGE). Methods in Practical Laboratory Bacteriology also covers protocols for extracting the fingerprinting plasmids as well as the use of non-radio-labeled gene probes and ribosomal RNA gene probes. **Cities and Their Vital Systems** Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity, utility, and nature of urban infrastructures; analyzes how they grow, interact, and change; and asks how, when, and at what cost they should be replaced. Among the topics discussed are problems arising from increasing air travel and airport congestion; the adequacy of water supplies and waste treatment; the impact of new technologies on construction; urban real estate values; and the field of telematics, the combination of computers and telecommunications that makes money machines and national newspapers possible.

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