

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

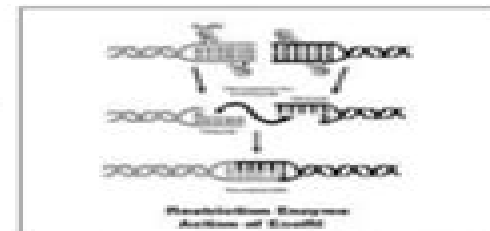
Recombinant DNA technology is one of the new techniques of biotechnology. Biotechnology uses living organisms to carry out chemical processes or to produce substances, combining biology with chemistry and science with industry. Biotechnology includes the field of **genetic engineering**, which is the 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

JR Anderson



Recombinant Paper Plasmids Lab Answers:

Recombinant DNA and Biotechnology Helen Kreuzer, Adrienne Massey, 1996 Laying the foundation An overview of biotechnology Genes genetics and geneticists An overview of molecular of molecular biology recombinant DNA technology Classroom activities DNA structure and function Constructing a paper helix DNA replication From genes to proteins Sizes of the Escherichia coli and human genomes Extraction of bacterial DNA Manipulation and analysis of DNA DNA scissors introduction to restriction enzymes DNA goes to the races Gel electrophoresis of pre-cut lambda DNA Recombinant paper plasmids Restriction analysis challenge worksheets Detection of specific DNA sequences DNA sequencing The polymerase chain reaction paper PCR Transfer of genetic information Transformation of Escherichia coli Conjugative transfer of antibiotic resistance in Escherichia coli Transduction of an antibiotic resistance gene Agrobacterium tumefaciens nature's plant genetic engineer Analysing genetic variation Generating genetic variation the meiosis game Analysing genetic variation DNA typing A mix up at the hospital A paternity case The case of the bloody knife The molecular basis of genetic diseases Societal issues Science Technology and society Weighing technology's risks and benefits Debating the risks of biotechnology A decision making model for bioethical issues Bioethics case study gene therapy Bioethics case study genetic screening Careers in biotechnology Appendixes Laboratory biosafety Basis microbiological methods Aseptic technique Sterilization of equipment and media Recipes Biotechnology laboratory equipment Using the equipment Recommended reading Teaching resources National science education standards and the content of this book Templates Overhead masters

Recombinant DNA Research, 1980 **Recombinant DNA Research** National Institutes of Health (U.S.), 1976 *The American Biology Teacher*, 1998

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Applied and Environmental Microbiology, 1999 Recombinant DNA Research Act of 1977 United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Health and the Environment, 1977

Recombinant DNA Methodology II Ray Wu, 2012-12-02 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 Methods for DNA isolation and cloning Synthesizing complementary DNA cDNA Cleaving and manipulating DNA Selecting useful reporter genes Constructing vectors for cloning genes Constructing expression vectors Site directed mutagenesis and gene disruption Identifying and mapping genes Transforming animal and plant cells Sequencing DNA Amplifying and manipulating DNA and PCR Detecting DNA protein interaction **Immobilized Cells: Basics and Applications** R.M. Buitelaar,C. Bucke,J.

Tramper,R.H. Wijffels,1996-03-21 This publication contains full papers of both oral and poster presentations of the symposium Immobilized Cells Basics and Applications that was held in Noordwijkerhout The Netherlands 26 29 November 1995 This volume covers recent developments in the field of immobilization e g new support materials characterization of support materials kinetic characterizations dynamic modelling bioreactor types scale up and applications are also given Applications in the field of medicine fermentation technology food technology and environmental technology are described Guidelines for research with immobilized cells Based on the scientific sessions a strategy of research and methods for characterization of immobilized cells especially in view of applications are given The goal was to relate basic research to applications and to extract guidelines for characterization of immobilized cells in view of process design and application from the contributions The manuscripts presented in these proceedings give an extensive and recent overview of the research and applications of immobilized cell technology **Bulletin of the Atomic Scientists** ,1979-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

Addison-Wesley Biology Addison Wesley,1996-04 **Recombinant DNA** John Richards,2012-12-02 Recombinant DNA Science Ethics and Politics emerged from papers presented at a conference Ethical and Methodological Dimensions of Scientific Research Recombinant DNA A Case Study held at the University of Georgia April 15 16 1977 Starting with an introduction to the methods and uses of recombinant DNA technology the remaining contributions made by researchers at the symposium are organized into four parts The first part contains papers on the development and utilization of recombinant DNA technology genetic engineering in agriculture and the dangers of unrestricted research The second part focuses on the ethical aspects of recombinant DNA research It includes studies such as ethical prerequisites for examining biological research the limitations of broad moral policies and ethical theories underlying the recombinant DNA controversy The third part examines the legal aspects of recombinant DNA research and examines the issue of whether such research should be regulated The papers in the fourth part consider directions for future research Regulation of Recombinant DNA Research United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1978 *Feature Papers* Michael Henson,2018-10-04 This book is a printed edition of the Special Issue Feature Papers that was published in **Processes** **Genetics Abstracts** ,1995 **Papillomaviruses** David

Evered, Sarah Clark, 2008-04-30 A multidisciplinary volume presenting recent research relating to papillomaviruses and their association with certain types of malignant lesions Presents up to date findings on their classification and their molecular biology and cell virus interactions including mode of entry modification of genetic material and pathogenicity their relationship to various kinds of skin conditions their association with cervical carcinoma and carcinomas of the bladder and alimentary tract with descriptions of in vitro studies and finally their immunology and possible therapeutic agents e g interferon and vaccination The only comprehensive text on the subject it brings together the work of many of the most prominent researchers in the field *Federal Register* ,1979-11 EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency,1993-10 *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 Energy from Biomass ,1987

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