

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

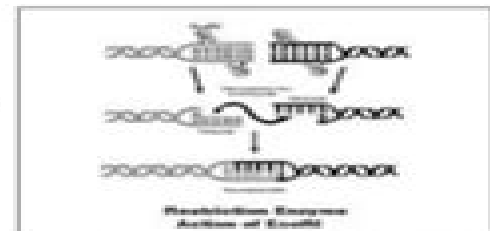
Recombinant DNA technology is one of the new techniques of biotechnology. Biotechnology uses living organisms to carry out chemical processes or to produce substances, combining biology with chemistry and science with industry. Biotechnology includes the field of **genetic engineering**, which is the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

AW Chickering



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

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The American Biology Teacher, 1998 **Annot Inst Edit Lab Man Biol 3e /Campbell** Benjamin-Cummings

Publishing Company, Judith Giles Morgan, 1994-02

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The David Suzuki Reader, 2nd Edition David Suzuki,2014 In this revised and expanded edition of his collected writings David Suzuki continues to explore the themes that have informed his work for more than four decades the interconnectedness of all things our misguided elevation of economics above all else the urgent need to deal with climate change but with an increased emphasis on solutions to the myriad problems we face his inspiring vision for the future and the legacy he hopes to leave behind There is also more emphasis on the personal as he recounts episodes from his childhood and early adulthood and speaks eloquently about old age death and the abiding role of nature and family in his life Written with clarity passion and wisdom this book is essential for anyone who is an admirer of David Suzuki who wants to understand what science can and can t do or who wants to make a difference Published in Partnership with the David Suzuki Institute

EPA Publications Bibliography United States. Environmental Protection Agency,1991 EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency,1995-04

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The 1970s brought a new understanding of the biological and intellectual impact of environmental crises on human beings and as efforts to prevent ecological and human degradation aligned a new literature of sickness emerged Ecosickness fiction imaginatively rethinks the link between ecological and bodily endangerment and uses affect and the sick body to bring readers to environmental consciousness Tracing the development of ecosickness through a compelling archive of modern U S novels and memoirs this study demonstrates the mode s crucial role in shaping thematic content and formal and affective literary strategies Examining works by David Foster Wallace Richard Powers Leslie Marmon Silko Marge Piercy Jan Zita Grover and David Wojnarowicz Heather Houser shows how these authors unite experiences of environmental and somatic damage through narrative affects that draw attention to ecological phenomena organize perception and convert knowledge into ethics Traversing contemporary cultural studies ecocriticism affect studies and literature and medicine Houser juxtaposes ecosickness fiction against new forms of environmentalism and technoscientific innovations such as regenerative medicine and alternative ecosystems Ecosickness in Contemporary U S Fiction recasts recent narrative as a laboratory in which affective and perceptual changes both support and challenge political projects **Biology Class 12 CBSE Board 10**

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Prize winner Jennifer Doudna and her colleagues launched a revolution that will allow us to cure diseases fend off viruses and have healthier babies When Jennifer Doudna was in sixth grade she came home one day to find that her dad had left a paperback titled *The Double Helix* on her bed She put it aside thinking it was one of those detective tales she loved When she read it on a rainy Saturday she discovered she was right in a way As she sped through the pages she became enthralled by the intense drama behind the competition to discover the code of life Even though her high school counselor told her girls didn't become scientists she decided she would Driven by a passion to understand how nature works and to turn discoveries into inventions she would help to make what the book's author James Watson told her was the most important biological advance since his codiscovery of the structure of DNA She and her collaborators turned a curiosity of nature into an invention that will transform the human race an easy to use tool that can edit DNA Known as CRISPR it opened a brave new world of medical miracles and moral questions The development of CRISPR and the race to create vaccines for coronavirus will hasten our transition to the next great innovation revolution The past half century has been a digital age based on the microchip computer and internet Now we are entering a life science revolution Children who study digital coding will be joined by those who study genetic code Should we use our new evolution hacking powers to make us less susceptible to viruses What a wonderful boon that would be And what about preventing depression Hmmm Should we allow parents if they can afford it to enhance the height or muscles or IQ of their kids After helping to discover CRISPR Doudna became a leader in wrestling with these moral issues and with her collaborator Emmanuelle Charpentier won the Nobel Prize in 2020 Her story is an enthralling detective story Oprah Daily that involves the most profound wonders of nature from the origins of life to the future of our species

The Code Breaker -- Young Readers Edition Walter Isaacson, 2022-04-26 Walter Isaacson's 1 New York Times bestselling history of our third scientific revolution CRISPR gene editing and the quest to understand the code of life itself is now adapted for young readers When Jennifer Doudna was a sixth grader in Hilo Hawaii she came home from school one afternoon and found a book on her bed It was *The Double Helix* James Watson's account of how he and Francis Crick had discovered the structure of DNA the spiral staircase molecule that carries the genetic instruction code for all forms of life This book guided Jennifer Doudna to focus her studies not on DNA but on what seemed to take a backseat in biochemistry figuring out the structure of RNA a closely related molecule that enables the genetic instructions coded in DNA to express themselves Doudna became an expert in determining the shapes and structures of these RNA molecules an expertise that led her to develop a revolutionary new technique that could edit human genes Today gene editing technologies such as CRISPR are already being used to eliminate simple genetic defects that cause disorders such as Tay Sachs and sickle cell anemia For now however Jennifer and her team are being deployed against our most immediate threat the coronavirus and you have just been given a front row seat to that race

Basics of Biotechnology A. J. Nair, 2004 **Continued**
Operation of Lawrence Livermore National Laboratory, 2005 Draft Site-wide Environmental Impact Statement for

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