

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

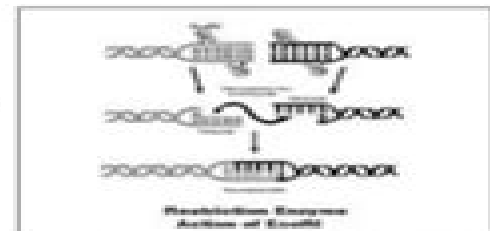
Recombinant DNA technology is one of the new techniques of biotechnology. Biotechnology uses living organisms to carry out chemical processes or to produce substances, combining biology with chemistry and science with industry. Biotechnology includes the field of **genetic engineering**, which is the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

Marcel A. Müller



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The Top Books of the Year Recombinant Paper Plasmids Lab Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. Recombinant Paper Plasmids Lab Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Recombinant Paper Plasmids Lab Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Recombinant Paper Plasmids Lab Answers : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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