

Manipulating DNA Notes

Scientists use their knowledge of the structure of DNA and its chemical properties to study and change DNA molecules.

Tools of Molecular Biology

1. Gel Electrophoresis

- a. DNA Extraction- using chemicals to remove DNA from the nucleus of the cell
- b. Cutting DNA- DNA is much too long to be analyzed, so we cut it into smaller fragments using restriction enzymes, which cut DNA at a specific sequence of nucleotides.
- c. Sequencing DNA- DNA fragments can be separated by weight and length in order to analyze specific sequences (order of bases).
 - DNA fragments are inserted into a porous gel, and then a voltage is passed through, pulling the DNA to the opposite side of the gel.
 - DNA is negatively charged.
 - The DNA sequence can then be "read" as the lighter segments will travel further and faster.



2. Transformation- a cell takes in DNA from another source and combines them together to make recombinant DNA.

- Recombinant DNA- DNA that is made by connecting fragments of DNA from different sources.
- Restriction enzymes are used to cut a sequence of DNA.
- What is leftover? A double stranded DNA fragment with a single stranded end.
- Next, a vector is used to insert the DNA into its new source. A vector is a carrier in which foreign DNA can be transferred into a host cell.
- Vectors can be:
 - a. Mechanical- to introduce DNA into a nucleus
 - b. Biological- virus DNA or plasmids (a small ring of DNA found in a bacterial cell).
- Finally, gene splicing rejoins the cut pieces of DNA through the use of DNA ligase (an enzyme which acts like tape to join the pieces together).



Manipulating Dna Study Guide

W. J. Leverich



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The Top Books of the Year Manipulating Dna Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Manipulating Dna Study Guide : Colleen Hoover "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 prevail. Uncover the Best : Taylor Jenkins Reids "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. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Manipulating Dna Study Guide : 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 crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 compelling 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 thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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