

## Gene Technology Study Guide

- ❖ **Describe three ways genetic engineering has been used to improve plants**
  - Making crops more tolerant to drought conditions; able to adapt to different soils, climates, and environmental stresses; resistant to the weed-killer glyphosate; resistant to insects; more nutritious
- ❖ **Summarize two ways genetic engineering techniques have been used to modify farm animals**
  - To increase milk production by feeding cows GM growth hormone; increasing the weight of pigs by stimulating their natural growth hormone; and producing medically useful human proteins by adding human genes to those of livestock in order to get the animals to produce human proteins in their milk
- ❖ **Summarize the four steps of a genetic engineering experiment**
  - First, DNA from the organism containing the gene of interest and DNA from the vector, such as a plasmid, are cut with a restriction enzyme. Then the DNA fragments from the two sources are combined. The recombined DNA is inserted into bacteria. The recipient bacterial cells are cloned. Finally, the bacterial cells are screened to identify and isolate those specific bacterial cells that contain the transferred gene and that are producing the protein coded for by the gene
- ❖ **Describe two different uses for DNA fingerprints**
  - DNA fingerprints are used in paternity cases, in forensics, and in the identification of the genes that cause genetic disorders
- ❖ **Explain how gel electrophoresis is used in genetic engineering experiments**
  - Gel electrophoresis uses an electrical field within a gel to separate DNA fragments by their size and charge, allowing the fragments to be identified
- ❖ Recombinant DNA is formed by joining DNA molecules from two different species
- ❖ Fragments of DNA that have complementary sticky ends can join with each other
- ❖ The risk associated with vaccines prepared from dead or weakened pathogenic microbes is that a few remaining live or unweakened microbes could still cause the disease
- ❖ Short pieces of artificial DNA used to make copies of genes does not describe a probe
- ❖ Electrophoresis separates DNA fragments by size which plays a role in identifying a specific gene
- ❖ While working on the Human Genome Project scientists were surprised to find that there were fewer genes than what they had predicted
- ❖ Genetically engineered drugs help people with hemophilia by providing blood clotting factors without the risk of AIDS infection
- ❖ GM interferon's are used to treat viral infections, this is genetically engineered medicine with its use
- ❖ Distinguishing whether a clone arose from a differentiated cell is not a use of DNA fingerprints
- ❖ Genetic engineers are developing approaches for improving agriculture in making plants resistant to insects, making plants resistant to insects, and improving the nutritional value of certain plants
- ❖ The pattern of dark band on X-ray film made when an individual's DNA fragments are separated, probed, and then exposed to an X-ray film is called a(n) DNA fingerprint

# Gene Technology Study Guide

**SA Dillow**



## **Gene Technology Study Guide:**

The Top Books of the Year Gene Technology Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Gene Technology Study Guide : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Gene Technology 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 engaging 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 exceptional 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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