

## 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

**Linda Lane Lilley, PhD RN**



## Gene Technology Study Guide:

Summary & Study Guide - The Gene Machine Lee Tang, 2017-08-09 The promise and peril of having children in an age of genetic tests and interventions This book is a summary of The Gene Machine How Genetic Technologies Are Changing the Way We Have Kids and the Kids We Have by Bonnie Rochman This book covers a variety of topics from breast cancer to Tay Sachs several pre natal genetic mapping technologies genome sequencing rare disease diagnosis silencing of a gene and repairing gene defects using gene editing tools CRISPR It covers the question of testing for Down syndrome and abortion and the emotionally and morally fraught decisions individuals are forced to make when confronting the information these tests reveal In the past few years genetic testing has expanded into a full array of testing available prenatally postnatally and even pre conception A more targeted analysis has allowed women to weed out unhealthy embryos before attempting pregnancy Genome sequencing gives the child s blueprint including a predisposition to diseases such as Down syndrome early onset Alzheimer s or breast cancer Having access to so much information can be empowering enlightening confusing and frightening It can enable parents to prepare for a child with special needs Or it could allow them to end the pregnancy This is a must read for those planning on having kids or for those who simply want to learn about genetic technologies This guide includes Book Summary helps you understand the key concepts Online Videos cover the concepts in more depth Value added from this guide Save time Understand key concepts Expand your knowledge

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