

CH 20 STUDY GUIDE: DNA TECHNOLOGY

KEY TERMS

recombinant DNA technology

biotechnology

restriction enzymes

"sticky" ends

DNA ligase

gel electrophoresis

transformation

artificial transformation

gene cloning

gene library

copy DNA(=cDNA)

genetic probe

DNA sequencing

DNA hybridization

PCR

RLFPs

DNA fingerprinting

WORD ROOTS

Liga - = bound, tied (*DNA ligase*: a linking enzyme essential for DNA replication)

Electro - = electricity (*electroporation*: a technique to introduce recombinant DNA into cells by applying a brief electrical pulse to a solution containing cells)

Poly - = many; **morph** - = form (*Single nucleotide polymorphisms*: one-base-pair variations in the genome sequence)

QUESTIONS

1. Describe the process involved in inserting the genes from one kind of organism into cells of another kind of organism.
2. Describe how a gene from humans can be inserted into a bacteria.
3. Which electrode do DNA fragments migrate toward (anode(-) or cathode(+))? Why?

Section Dna Technology Study Guide

LL Leslie



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Table of Contents Section Dna Technology Study Guide

1. Understanding the eBook Section Dna Technology Study Guide
 - The Rise of Digital Reading Section Dna Technology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Section Dna Technology Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section Dna Technology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section Dna Technology Study Guide
 - Personalized Recommendations
 - Section Dna Technology Study Guide User Reviews and Ratings
 - Section Dna Technology Study Guide and Bestseller Lists
5. Accessing Section Dna Technology Study Guide Free and Paid eBooks
 - Section Dna Technology Study Guide Public Domain eBooks
 - Section Dna Technology Study Guide eBook Subscription Services
 - Section Dna Technology Study Guide Budget-Friendly Options

6. Navigating Section Dna Technology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Section Dna Technology Study Guide Compatibility with Devices
 - Section Dna Technology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section Dna Technology Study Guide
 - Highlighting and Note-Taking Section Dna Technology Study Guide
 - Interactive Elements Section Dna Technology Study Guide
8. Staying Engaged with Section Dna Technology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section Dna Technology Study Guide
9. Balancing eBooks and Physical Books Section Dna Technology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section Dna Technology Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Section Dna Technology Study Guide
 - Setting Reading Goals Section Dna Technology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section Dna Technology Study Guide
 - Fact-Checking eBook Content of Section Dna Technology Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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