

Genetic Engineering QUIZ

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Selective breeding produces
 - a. more offspring.
 - b. fewer offspring.
 - c. desired traits in offspring.
 - d. transgenic organisms.
- _____ 2. Which of the following is most likely to bring together two recessive alleles for a genetic defect?
 - a. inbreeding
 - b. hybridization
 - c. genetic engineering
 - d. transformation
- _____ 3. Which of the following statements is NOT true?
 - a. Inbreeding and hybridization are opposite processes.
 - b. A hybrid plant has all the characteristics of both its parents.
 - c. Inbreeding can produce an offspring that has a defect that neither parent shows.
 - d. Hybridization is used to produce new varieties of plants and animals.
- _____ 4. Scientists produced oil-eating bacteria by
 - a. making bacteria polyploid.
 - b. inbreeding bacteria.
 - c. inducing mutations in bacteria.
 - d. hybridizing bacteria.
- _____ 5. What is the ultimate source of genetic variability?
 - a. inbreeding
 - b. radiation
 - c. hybridization
 - d. mutations
- _____ 6. Breeders induce mutations in organisms to
 - a. increase diversity in populations.
 - b. make organisms more alike.
 - c. avoid selective breeding.
 - d. produce organisms with undesirable characteristics.
- _____ 7. Which of the following includes all the others?
 - a. hybridization
 - b. inbreeding
 - c. selective breeding
 - d. induced mutations
- _____ 8. Polyploidy instantly results in a new plant species because it
 - a. changes a species' number of chromosomes.
 - b. produces a hardier species.
 - c. causes mutations.
 - d. all of the above
- _____ 9. One function of gel electrophoresis is to
 - a. separate DNA fragments.
 - b. cut DNA.
 - c. recombine DNA.
 - d. extract DNA.
- _____ 10. The process of making changes in the DNA code of a living organism is called
 - a. selective breeding.
 - b. genetic engineering.
 - c. inbreeding.
 - d. hybridization.
- _____ 11. A DNA molecule produced by combining DNA from different sources is known as
 - a. a mutant.
 - b. a hybrid.
 - c. a polyploid.
 - d. recombinant DNA.
- _____ 12. During transformation,
 - a. a prokaryote is changed into a eukaryote.
 - b. a cell takes in DNA from outside the cell.
 - c. foreign DNA is inserted into a plasmid.

Answers For Genetic Engineering Challenge

Mansour Ghorbanpour,Ajit Varma



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OECD,2004-08-30 This book discusses the often diverging risks and opportunities associated with genetically engineered organisms in terms of the environment food safety and economics and trade *Biotech Challenges* Catherine

Regnault-Roger,2024-01-01 The evolution of genome s modification by genetic engineering was characterized by a major technological breakthrough with the discovery of CRISPR in 2012 A distinction is now made between first generation biotechnologies developed in the 20th century and current second generation biotechnologies NGT or New Genomic Techniques including genome editing How do we consider these genomic modifications compared to those that occur spontaneously in nature What are the applications of these techniques in the fields of plants animals and human health What prospects in terms of development and independence for countries and at least what regulations are in force on the different continents The book questions what GMOs are genome editing products and the place of genomic transformations today and tomorrow in our societies It tries to give some geostrategic and regulatory benchmarks on biotech products in order to better understand the current issues (Free Simple)

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Table of Contents Answers For Genetic Engineering Challenge

1. Understanding the eBook Answers For Genetic Engineering Challenge
 - The Rise of Digital Reading Answers For Genetic Engineering Challenge
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Genetic Engineering Challenge
 - 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 Answers For Genetic Engineering Challenge
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Genetic Engineering Challenge
 - Personalized Recommendations
 - Answers For Genetic Engineering Challenge User Reviews and Ratings
 - Answers For Genetic Engineering Challenge and Bestseller Lists
5. Accessing Answers For Genetic Engineering Challenge Free and Paid eBooks
 - Answers For Genetic Engineering Challenge Public Domain eBooks
 - Answers For Genetic Engineering Challenge eBook Subscription Services
 - Answers For Genetic Engineering Challenge Budget-Friendly Options
6. Navigating Answers For Genetic Engineering Challenge eBook Formats

- ePub, PDF, MOBI, and More
 - Answers For Genetic Engineering Challenge Compatibility with Devices
 - Answers For Genetic Engineering Challenge Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Genetic Engineering Challenge
 - Highlighting and Note-Taking Answers For Genetic Engineering Challenge
 - Interactive Elements Answers For Genetic Engineering Challenge
 8. Staying Engaged with Answers For Genetic Engineering Challenge
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Genetic Engineering Challenge
 9. Balancing eBooks and Physical Books Answers For Genetic Engineering Challenge
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Genetic Engineering Challenge
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Answers For Genetic Engineering Challenge
 - Setting Reading Goals Answers For Genetic Engineering Challenge
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Answers For Genetic Engineering Challenge
 - Fact-Checking eBook Content of Answers For Genetic Engineering Challenge
 - 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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