

BIOTECHNOLOGY : PRINCIPLES AND PROCESSES

1. The science, which deals with techniques of using live organisms or enzymes from organism to produce products and processes useful to human is :
(1) Genetics (2) Biotechnology
(3) Bioinformatics (4) None of these
2. A restriction endonucleases which always cut DNA molecules at a particular point by recognising a specific sequence of six base pairs is :
(1) Hind-II (2) Pst I
(3) Hae-III (4) All of these
3. The first letter of the name of Restriction endonuclease came from the
(1) Genus of organism
(2) Species of organism
(3) Family of organism
(4) Class of organism
4. Autonomously replicating circular extra chromosomal DNA of bacteria is :
(1) Plastid (2) Nucleus
(3) Plasmid (4) None of these
5. The specific DNA sequence in a chromosome which is responsible for initiation of replication is :
(1) Cloning region
(2) Termination region
(3) Initiation region
(4) Origin of replication
6. Which of the following reproduction preserves the genetic informations ?
(1) Asexual reproduction
(2) Sexual reproduction
(3) Both (1) and (2)
(4) None of these
7. Taq polymerase is used in, polymerase chain reaction, because :
(1) It becomes inactive at high temperature
(2) it makes other enzyme active at high temperature
(3) It remains active during high temperature
(4) It is obtained from thermostable virus.
8. The vessels, where large volumes of culture can be processed are :
(1) Bioreactors (2) Biovessels
(3) Biocontainers (4) All of above
9. Which of the following enzymes is known as 'genetic glue'?
(1) DNA polymerase
(2) Alkaline phosphatase
(3) DNA ligase
(4) All of the above
10. Small chemically synthesised oligonucleotides that are complementary to the regions of DNA at 3' end used in PCR are :
(1) Primers (2) Dimers
(3) Small strands (4) Large fragments
11. Bombardment of high velocity micro-particles of gold or tungsten coated with DNA on target cells is :
(1) Biolistics
(2) Micro-injection
(3) Electroporation
(4) Bombing
12. In micro injection :
(1) DNA is bombarded on target cells
(2) DNA is placed through a vector
(3) DNA is directly injected into the nucleus of animal cell
(4) None of the above
13. pBR322 has two antibiotic resistance genes, they are :
(1) Streptomycin and Ampicillin resistant gene
(2) Chloromycetin and tetracycline resistant gene
(3) Tetracycline and neomycin resistant genes
(4) Ampicillin and tetracyclin resistant genes
14. Most common matrix is agarose a natural polymer used in gel electrophoresis is extracted from :
(1) an animal
(2) a fungus
(3) Sea weeds
(4) None of these

Biology Biotechnology Questions Answers

Arshad Iqbal



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cytogenetics and molecular genetics xenografts and treatment of HIV and cancers All this is complemented by a discussion of the ethical and safety considerations in the field Animal biotechnology is a broad field encompassing the polarities of fundamental and applied research including molecular modeling gene manipulation development of diagnostics and vaccines and manipulation of tissue Given the tools that are currently available and the translational potential for these studies animal biotechnology has become one of the most essential subjects for those studying life sciences Highlights the latest biomedical applications of genetically modified and cloned animals with a focus on cancer and infectious diseases Provides firsthand accounts of the use of biotechnology tools including molecular markers stem cells and tissue engineering *Comprehensive*

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Table of Contents Biology Biotechnology Questions Answers

1. Understanding the eBook Biology Biotechnology Questions Answers
 - The Rise of Digital Reading Biology Biotechnology Questions Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Biotechnology Questions Answers
 - 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 Biology Biotechnology Questions Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Biotechnology Questions Answers
 - Personalized Recommendations

- Biology Biotechnology Questions Answers User Reviews and Ratings
- Biology Biotechnology Questions Answers and Bestseller Lists
- 5. Accessing Biology Biotechnology Questions Answers Free and Paid eBooks
 - Biology Biotechnology Questions Answers Public Domain eBooks
 - Biology Biotechnology Questions Answers eBook Subscription Services
 - Biology Biotechnology Questions Answers Budget-Friendly Options
- 6. Navigating Biology Biotechnology Questions Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Biotechnology Questions Answers Compatibility with Devices
 - Biology Biotechnology Questions Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Biotechnology Questions Answers
 - Highlighting and Note-Taking Biology Biotechnology Questions Answers
 - Interactive Elements Biology Biotechnology Questions Answers
- 8. Staying Engaged with Biology Biotechnology Questions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Biotechnology Questions Answers
- 9. Balancing eBooks and Physical Books Biology Biotechnology Questions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Biotechnology Questions Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Biotechnology Questions Answers
 - Setting Reading Goals Biology Biotechnology Questions Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Biotechnology Questions Answers
 - Fact-Checking eBook Content of Biology Biotechnology Questions Answers

- 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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