

# BIOTECHNOLOGY : PRINCIPLES AND PROCESSES

- 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
- 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) Pvu I
  - (3) Hae-III
  - (4) All of these
- 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
- Autonomously replicating circular extra chromosomal DNA of bacteria is :
  - (1) Plastid
  - (2) Nucleus
  - (3) Plasmid
  - (4) None of these
- 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
- Which of the following reproduction preserves the genetic informations ?
  - (1) Asexual reproduction
  - (2) Sexual reproduction
  - (3) Both (1) and (2)
  - (4) None of these
- 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.
- The vessels, where large volumes of culture can be processed are :
  - (1) Bioreactors
  - (2) Biovessels
  - (3) Biocontainers
  - (4) All of above
- Which of the following enzymes is known as 'genetic glue'?
  - (1) DNA polymerase
  - (2) Alkaline phosphatase
  - (3) DNA ligase
  - (4) All of the above
- 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
- 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
- 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
- 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
- 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

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**Didier Musso**



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