Mindluster Platform

About the course r DNA technology

Course Presenter : Bio science

r DNA technology, in this course we will learn about recombinant DNA (rDNA) technologyâ€”how scientists combine genetic material from different organisms to create new DNA sequences with desirable traits. Youâ€™ll explore the essential tools such as restriction enzymes, DNA ligase, vectors (like plasmids), and host cells used in cloning genes. We'll guide you through the steps of gene isolation, insertion, transformation, and expression. The course also covers real-world applications including the production of insulin, growth hormones, genetically modified organisms (GMOs), and gene therapy. Ethical and safety considerations are discussed as well. Whether youâ€™re a student or a professional, this course provides a strong foundation in how rDNA is shaping medicine, agriculture, and industrial biotech. Letâ€™s begin our journey into the world of genetic innovation. Bio science

Medical Category's Courses

Course Lesson(18)

Lesson 1 : **Bt cotton production Bacillus thuringiensis Action of Bt toxin Advantages Cry gene**

Lesson 2 :
Production of Human growth hormone by rDNA technology Recombinant growth hormone or somatotropin

Lesson 3 : **Recombinant Dna technology Production of insulin by rDNA technology Bio science**

Lesson 4 : **Western blotting technique Detection of proteins Principle Procedure Bio science**

Lesson 5 : **Northern blotting technique RNA blotting Detection of RNA Bio science**

Lesson 6 : **Southern blotting technique Made easy Bio science**

Lesson 7 : **Polymerase chain reaction PCR Denaturation Annealing Extension Bio science**

Lesson 8 : **Construction of cDNA library Synthesis of cDNA rDNA Technology Bio science**

Lesson 9 :
RFLP Restriction fragment length polymorphism Molecular markers RFLP mapping Bio science

Lesson 10 :
RAPD PCR Random amplified Polymorphic Dna Polymerase chain reaction Molecular markers

Lesson 11 :
Restriction mapping Made easy to understand Physical mapping Gene mapping Bio science

Lesson 12 : **DNA Ligase enzyme and it s mechanism DNA ligation Bio science**

Lesson 13 : **Restriction endonuclease enzyme Mechanism Briefly explained Bio science**

Lesson 14 : **Sanger DNA sequencing Made easy to understand Bio science**

Lesson 15 : **AFLP Amplified fragment length polymorphism Molecular markers Bio science**

Lesson 16 : **Production of vaccines HB vaccine HBv Procedure Bio science**

Lesson 17 : **BIO science Trailer Here is the trailer and details of my channel**

Lesson 18 : **Edible vaccines Production in laboratory Benefits Oral vaccines Bio science**

Related courses

Infection Control

Male Reproductive

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