

Training in Plant Genetics & Micropropagation

Key Features:

- Hands on Experience on Plant Biotechnology techniques
- Application in Plant Biotech Industries or Research
- Exponential Growth in India

Module I: Introduction to the Plant Biotechnology Techniques

- Extraction of Genomic DNA from Plant
- Extraction of Plasmid DNA from Plant
- Electrophoresis Techniques
- Amplification Techniques through PCR
- Basic Bioinformatics

Module II: Genetic Engineering of Plant

- Extraction of Plasmid DNA
- Electrophoresis Of Plasmid DNA
- DNA Isolation (Gene)
- DNA Elution from Gel
- Preparation of Vector DNA and Insert DNA
- Restriction Digestion
- Ligation of Genes
- Competent Cell Preparation
- Transformation
- Screening of Transformed Cell
- Amplification through PCR
- Extraction and Purification of Recombinant Protein
- SDS-PAGE of Recombinant Protein
- Western Blot

Module III: DNA Fingerprinting of Plants through RAPD

- Isolation of Genomic DNA
- Purification of Genomic DNA
- DNA Electrophoresis
- DNA Quantization
- DNA Dilution
- Primer Screening (PCR)
- Electrophoresis of PCR Product
- DNA Scoring & Software Analysis
- Dendogram Generation / Construction of Phylogenetic Tree
- Similarity Matrix (Diversity Metrix)

Module IV: Somaclonal Variation Study

Module V : Basics of Plant Tissue Culture

Module VI: Sterilization Techniques of Plant Tissue Culture

Module VII: Media Preparation For Plant Tissue Culture

- Preparation of Stock Solution
- Preparation of MS Media
- Preparation of LS Media
- Preparation of Stock Solutions
- Module II : Media Preparation For Plant Tissue Culture

Module VII: Media Optimization

- Media Optimization for Banana
- Media Optimization for Mushroom
- Media Optimization for Bamboo

Module IX: Plant Tissue Culture

- Callus Culture
- Anther Culture
- Root Culture
- Embryo Culture
- Protoplast Culture

Module X: Plant Hardening

Module XI: Project Work

Duration: 3 Months from date of joining

Eligibility: Masters or Bachelors from Life Science / Pharma (Studying or Passed out)

Service Charge: Rs 18,000/-

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