

Short Term Training in DNA Profiling through Molecular Marker

The DNA Profiling through Molecular Marker is a set of technologies used to identify the genetic family through molecular markers. DNA Profiling is used in Plant Genetics, Animal Breeding , Forensic Science.

Key Features:

- Hands on Experience on Molecular Biology Techniques
- Solution for plant genetics research , animal barcoding & breeding , crime detection etc.
- Industry oriented learning
- Exposure to latest and sophisticated instrumentation.

Module I - Basics of Laboratory: Lab safety and Procedures, Record Maintenance, Handling of Equipments , Sterilization Techniques , Preparation of Chemical & Reagents

Module II - Basics of DNA Profiling through Molecular Markers: Applications, Optimization of PCR for molecular markers, PCR Multiplexing, Gradient PCR Reactions

Module III – Methods and Analysis of DNA Profiling through Molecular Markers: RAPD, RFLP, SSR, ISSR, QTL Analysis, DNA bar coding, Dendogram Generation, Similarity & Dissimilarity Matrix, SSR Primer Designing etc.

Module IV – DNA Profiling through RAPD Molecular Marker Recombinant DNA Technology: Isolation of Genomic DNA, Purification of Genomic DNA, DNA Electrophoresis, DNA Quantization, DNA Dilution, Primer Screening (PCR), Electrophoresis of PCR Product, Software Analysis

Module IV – DNA Profiling through RFLP Molecular Marker – Selection of Restriction Sites through Software , Primer Design , Restriction Digestion , RFLP PCR , Southern Blot Analysis, Software Analysis

Module IV – DNA Profiling through SSR Molecular Marker – Selection of SSR Primers, PCR for SSR Analysis , QTL Analysis , Software Analysis

Service Charges:

Duration: 30 to 45 Days

Rs 12,000 /- (4 Weeks Training) & Rs 15,000 (6 Weeks Training With Project Work)

