

Short Term Training in Metagenomics / Microbial Technology

Meta genomics is a rapidly growing field of research that has had a dramatic effect on the way we view and study the microbial world. Meta genomics has the potential to substantially impact industrial production. It has proven to be rich and comprehensive and is making important contributions in many areas of life science.

Application of this Program: Research & Development, Environmental Biotechnology, Industrial Bio-Products, Plant Biotechnology, Bioremediation, Natural Products and Medicine.

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

Module II – Isolation and enumeration of Microorganism: isolation of microorganism, single colony isolation, enumeration of microorganism, pure culture

Module III – Bio-Chemical Characterization: Bio-Chemical Characterization of Micro Organism, Software Analysis

Module IV – Functional Meta genomics: PCR & Applications, Optimization of PCR, Troubleshooting in PCR applications, Nested PCR, PCR Multiplexing , 16s rRNA / 16s rDNA Analysis

Module V – Genetic Expression in E.Coli : Plasmid Construction, Restriction Digestion, Ligation, Transformation, Screening of Transformed Cell

Duration: 30 to 45 Days

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