

## Training in General Biotechnology

### Key Features:

- Hands on Experience on various biotechnology techniques
- Multidisciplinary approach ( Microbiology , Mol. Biology , RDT , Immunology , PTC etc)
- Hands on experience on various biotech techniques in one month only
- Introduction to Instrumentation: PCR , Real Time PCR , Microarray , HPLC etc.

### Module I : Basics of Laboratory

- Handling of Instruments
- Laboratory Safety Protocols
- Calibration of Instruments
- Preparation of Solutions
- Functions of chemicals & solutions

### Module II: Microbiology Techniques

- Sterilization techniques
- Isolation of pure colony of microbes
- Bacterial growth kinetic analysis

### Module III: Molecular Biology Techniques

- Extraction of Nucleic Acids ( DNA & RNA )
- Electrophoresis Techniques
  - Agarose Gel Electrophoresis
  - SDS – PAGE
  - Western Blotting
- PCR Techniques
- Recombinant DNA Technology
  - Plasmid Isolation
  - Competent Cell Preparation
  - Restriction Digestion
  - Elution

- Transformation
- PCR

#### **Module IV: Immunology Techniques**

- Antigen Antibody Interaction
- Immuno Electrophoresis
- ELISA

#### **Module V: Basic Tissue Culture**

- Preparation of media for PTC
- Root & Embryo Culture

**Duration:** 30 Days from date of joining

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

**Total Number of Experiments : 30**

**Service Charges:** Rs 8,000 /-

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