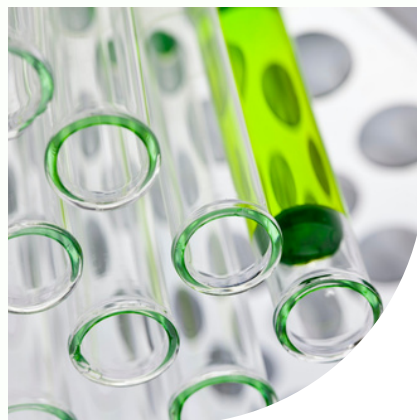
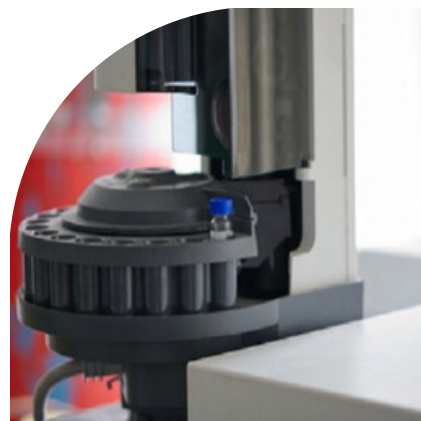


Short Term /Summer Training

Fast-Track Your Skills.
Accelerate Your Career

Prepared by:
Allele Team

2026



More Information:

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Molecular Genetics Techniques

Training in molecular genetics is a potent driver of career advancement. Gaining practical experience in mol. biology and data interpretation gives people who want to succeed in biomanufacturing, molecular diagnostics, or computational biology.

Course Outline

Module 1: Lab Safety, Chemical Preparation & Other Lab Procedures

Module 2: Nucleic Acid Extraction (DNA & RNA) & Its Purity Analysis

Module 3: RNA Extraction, cDNA Synthesis and Qualitative RT-PCR

Module 4: Basics of Real Time PCR, Primer Design, Sample Run & Data Analysis

Module 5: Basics of ELISA & Application, Analysis by ELISA and Data Analysis

Application

It is widely applied in Clinical Diagnostics & Precision Medicine, Therapeutics & Genetic Engineering, Forensics & Human Identification, Industrial & Environmental Biotechnology,

Information

- **Eligibility:** Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.
- **Duration:** 80 Hrs or Up-to 45 Days
- **Service Charges:** We charge fee to cover the expenses of chemical and reagents that is INR 12,000 /- (Indian Nationals) & \$200 (Foreign Nationals)

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Cell Biology & Drug Discovery

In vitro cell culture, flow cytometry and fluorescence microscopy are deeply interconnected cornerstones of modern biomedical research, requiring rigorous training to translate cellular manipulation into precise, quantitative data.

Course Outline

Module 1: In-vitro Cell Culture Lab Safety, Preparation and Sterilization of Culture Media

Module 2: Sub-culturing, Cell Counting and Microscopic Observation by Inverted Microscopy

Module 3: Cell Counting, Drug Cytotoxicity Analysis and Trypan Blue Exclusion Assay

Module 4: Basics of Flow Cytometry in drug analysis, Propidium Iodide (PI) Cell Staining, Cell analysis by Flow Cytometer and Data Analysis

Module 5: Cell Preparation, Drug Treatment and Staining for IFA, Fluorescence Microscopy and Data Analysis

Application

In research, this powerful combination is widely applied in fields like oncology, immunology, and drug discovery.

Information

- **Eligibility:** Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.
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Vaccine Research & Protein Biology

Bioprocess and protein biology bridge the gap between discovery science and industrial manufacturing. Whether you are aiming to produce therapeutic antibodies, enzymes for biofuels, or alternative proteins.

Course Outline

Module 1: Bio-Process, Growth Curve & cell count, Production of biomass & measurement

Module 2: Enzyme Activity Assay, Ammonium Precipitation and Partial Purification

Module 3: SDS-PAGE and Basics of Protein Liquid Chromatography (FPLC)

Module 4: Fast Protein Liquid Chromatography sample run and data analysis

Module 5: Protein Derivatization & Preparation and Amino Acid Analysis by HPLC

Application

It is widely applied in the production of Monoclonal Antibodies (mAbs), Vaccines, Insulin, Proteases, Lipases, Amylases, Cultivated Meat and Precision Fermentation.

Information

- **Eligibility:** Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.
- **Duration:** 80 Hrs or Up-to 45 Days
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Immunology & Immunotechniques

As the operational underpinning for drug development, diagnostics, and clinical translation, mastery of these fundamental immunotechniques is highly valued in both academia and the biopharmaceutical sector.

Course Outline

Module 1: In-vitro Cell Culture Lab Safety, Preparation and Sterilization of Culture Media

Module 2: Primary Cell Isolation & counting and Microscopic Observation by Inverted Microscopy

Module 3: Enzyme-Linked Immunosorbent Assay (ELISA): Direct/Indirect ELISA; signal amplification, standard curves, and troubleshooting

Module 4: Non-specific binding blocking strategies, target selection and SDS-PAGE and Western Blot Analysis.

Module 5: Cell Preparation, Drug Treatment and Staining for IFA, Fluorescence Microscopy and Data Analysis

Application

In research, this powerful combination is widely applied in fields like oncology, immunology, and drug discovery.

Information

- **Eligibility:** Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.
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Industrial Chemistry & Pharmaceutical Quality Control Training

Analytical testing ensures the safety, purity, and potency of pharmaceuticals, food, environmental samples, and bioproducts.

Course Outline

Module 1: Assay of Active Ingredient, Confirm API identity, Preservative Content Determination

Module 2: Microbial Limit Test (MLT), Antibiotic Assay (Microbiological Assay), Sterility Testing

Module 3: Assay & Analysis of product, Analysis of Vitamin C, Estimation of Drug Content in Pharmaceuticals.

Module 4: Principle of HPLC, Parts, Detectors and Application, Standard Preparation, sample run and data analysis.

Module 5: Principle of Gas Chromatography, Parts, Detectors and Application, Standard Preparation, Sample run and data analysis.

Application

Combination of chromatography (HPLC and GC) and microbiology forms the foundational infrastructure for product safety, regulatory compliance, and quality assurance of cosmetics, food, pharma and many industries.

Information

- **Eligibility:** Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.
- **Duration:** 80 Hrs. or Up-to 45 Days
- **Service Charges:** We charge fee to cover the expenses of chemical and reagents that is INR 12,000 /- (Indian Nationals) & \$200 (Foreign Nationals)

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Hands-On Forensic Science Training and Certification Course

The intersection of forensic DNA profiling, PCR amplification, and HPLC analysis forms the operational bedrock of modern criminal justice, molecular diagnostics, and chemical toxicology.

Course Outline

Module 1: Collection of forensic samples, DNA Extraction, Quantitative & Qualitative Analysis of DNA

Module 2: Mt- DNA Extraction, Basics of Real Time PCR, Primer Design, sample run and data analysis.

Module 3: Solid Phase Extraction of toxins, Clean-up using Alumina and Silica Column, Spectrophotometric & Chromatography Analysis.

Module 4: Determination of moisture, Acid Value, Iodine Value and Specific Gravity.

Module 5: Sample Preparation, Solid-phase extraction, Derivatization for toxins, Analysis of toxic compound by HPLC.

Application

Beyond forensics analysis, these high-precision techniques are widely applied in pharmaceutical quality control, cosmetics analysis and the regulatory monitoring of controlled substances.

Information

- **Eligibility:** Graduate/ Post Graduate / Research Scholar from life sciences or chemistry / Medical Professionals / Dentist / veterinarian etc.
- **Duration:** 80 Hrs. or Up-to 45 Days
- **Service Charges:** We charge fee to cover the expenses of chemical and reagents that is INR 12,000 /- (Indian Nationals) & \$200 (Foreign Nationals)

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SHORT TERM TRAINING

2026



Smart Training. Quick
Results. Real Growth.

Prepared By:
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