



HANDS ON TRAINING WORKSHOP ON PCR TECHNOLOGY

Module One - Introduction to PCR

Topics include: The theory of PCR , Applications of PCR , Types of PCR Reactions , Requirement of optimization etc.

Module Two - Nucleic Acid Extraction , Quality Control

Topics include: Extraction of Nucleic Acid , Gel Electrophoresis , Quantitative and Qualitative Analysis of Samples , Troubleshooting of Nucleic Acid Extraction

Module Three – Primer Designing & Selection

Topics include: Primer designing for cloning & Expression , Primer Selection for Molecular Marker Analysis

Module Four – PCR Optimization

Topics include: GC contents in Primers , Role of annealing temperature , Role of Contamination , Role of PCR Cycles etc.

Module Five - Troubleshooting

Topics include: Order of troubleshooting, Examples of common problems and causes, Practical examples.

Module Six – PCR Run for Reactions

Topics include: Run of PCR reactions for biological samples

Module Seven – Analysis of PCR Results

Topics include: Analysis of results

Eligibility : Scholars from Biotechnology / Microbiology / Bio-Chemistry / Pharmacy / Forensic Science / Nanotechnology / Applied Chemistry / Industrial Chemistry Stream etc.

Duration : Two Days (Saturday & Sunday-Full Time

Fee : Rs 3,000 / -

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