



# IMMUGENIX BIOSCIENCES

ORGANISES A 3 DAYS HANDS ON WORKSHOP  
ON

## MOLECULAR TECHNIQUES - APPLICATIONS AND TROUBLESHOOTING

2<sup>nd</sup>- 4<sup>th</sup> July 2018 (1<sup>st</sup> Batch) and 16<sup>th</sup> -18<sup>th</sup> Aug 2018 (2<sup>nd</sup> Batch)

**Who can attend:** Any one with basic knowledge in Basic Science, Genomics and Proteomics, and would like to receive a comprehensive overview and hands on experience in different Molecular Techniques and to expertise with different applications and troubleshooting

### Target Audience:

- **Students-** Bachelors and Masters,
- **Scholars** – JRF, SRF, and PhD,
- **Faculty's** from any Biological Sciences.

**15  
Participants  
Only**

**Hands-on experiment will be performed individually**

### Topics covered

**Nucleic acid extraction** - Extraction of DNA and RNA by Spin column method

**Quantitative and Qualitative analysis of Nucleic acids**

**Primer and Probe designing** - Designing of PCR primers and Real time PCR probes. Primer quality check by Oligo analyser tool

**Polymerase Chain Reaction (PCR)** - Different types of PCR – Conventional, Nested, Colony, Multiplexing and inverse PCR

**Agarose Gel Electrophoresis** – Analysis of DNA and PCR products

**PCR product purification** – Gel purification and Spin column methods

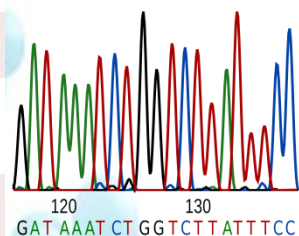
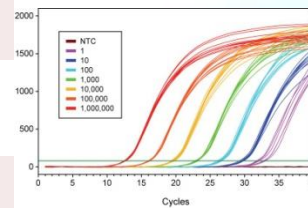
**Restriction Fragment Length Polymorphism (RFLP)** – DNA finger printing

**RT-PCR (cDNA synthesis)** - Conversion of mRNA to cDNA using random hexamers or oligo dT

**Real Time PCR** – Quantitative PCR (qPCR) & Differential Expression Analysis

**DNA Sequencing and Analysis** – Conventional and automated Sanger -dideoxy nucleotide chain-termination method and DNA chromatogram analysis

**Phylogentic & Mutation Analysis** – Dendogram construction and DNA mutation



**Registration Fee: Students- Rs. 3,000/-, Scholars – Rs. 4000/-, & Faculty's- Rs. 5000/-**

**For Registration Please contact:**

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