

# TRAINING IN FORENSIC DNA TECHNOLOGY

## Ist Week - Basics of Forensic, DNA Evidence & DNA Extraction

- Day 1: Lab safety and Forensic Procedures , Chemical & Reagent Preparation
- Day 2: Recovery of High-Molecular-Weight DNA and Forensic Specimens
- Day 3: DNA extraction from Cigaret Butts & Postage Stamp
- Day 4: DNA recovery from dried blood sample
- Day 5: Mitochondrial DNA extraction of forensic sample



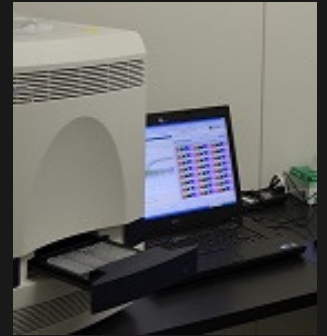
## IIInd Week - Mini-satellites or Variable Number Tandem Repeats (VNTRs)

- Day 1: Basics of PCR, Optimisation & Setup for forensic application
- Day 2: Digestion of DNA with a restriction endonuclease
- Day 3: Southern Blot Analysis & Hybridization
- Day 4: VNTRs Analysis - Phase I
- Day 5: VNTRs Analysis - Phase II



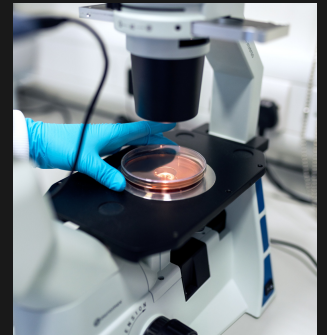
## IIIrd Week - Single Nucleotide Polymorphisms (SNPs) Analysis

- Day 1: Procedure for STR Analysis - Phase I
- Day 2: Procedure for STR Analysis - Phase II
- Day 3: Total RNA extraction & mRNA Synthesis
- Day 4: First Strand cDNA Synthesis
- Day 5: SNP Analysis by Real Time PCR



## IVth Week - Forensic DNA Phenotyping & Karyotyping

- Day 1: Data Analysis of Real Time PCR for SNP Analysis
- Day 2: STR analysis by HPLC ( PCR Product )
- Day 3: Forensic DNA Phenotyping
- Day 4: Y Chromosome analysis by Karyotyping - Phase I
- Day 5: Y Chromosome analysis by Karyotyping - Phase II



## Vth Week - Project Work

We will share our ideas and decide for small piece of research in limited time frame.

**Cost of Training :** Training Only -INR 10,000 / -  
Training + Project - INR 12,000/-

**Duration :** 80 to 100 Hrs or 4 to 6 Weeks



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