

Molecular techniques

1. Isolation and Purification of Plasmid DNA and Genomic DNA
2. DNA profiling (AGE)
3. DNA Fingerprinting (RAPD, RFLP, AFLP)
4. RT-PCR
5. Real time PCR
6. Sequencing of 16S rRNA gene (Bacteria, Actinomycetes, Fungi, Mitochondrial and Plastids)
7. Total RNA Isolation and cDNA Synthesis
8. Primer designing and synthesis
9. DNA Barcoding (Animals, insects Plant, Fungi)
10. Gene Cloning
11. Protein Expression and Purification in *E.coli*