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Biotechnology project

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Protocols for independent projects

Microbiology exp

Sample preparation, Spread plate method, streak plate method Bacterial culture maintenance, subculture.

Molecular Biology exp

Nucleic acid extraction: DNA by DNazol, 16S rRNA PCR for bacterial identification, Gradient PCR for standardization of annealing temperature, Separate DNA electrophoresis for each PCR experiments, Sample preparation for DNA sequencing, DNA sequence reading by Bioedit,

Applied Bioinformatics

Application of NCBI database for finding gene in genome, Bioinformatics software: BLAST, BLAST2, MEGA4.1 for Phylogeny, PCR Primer designing: General guidelines and softwares

Theory you need to study and we will guide through PPT, reference materials etc.:

1. Theory and concept of Electrophoresis: agarose gel electrophoresis
2. Introduction and concept of PCR
3. Basic PCR protocols and its variations
4. Applications of PCR : 16 S rRNA PCR for bacterial identification
5. PCR reagent and primer calculation

Duration: 3 - 4 months

For more detailed information visit personally or email

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