

MICROBIOLOGY

1. Algal wet mount
2. Examination of protozoa by Hay infusion broth
3. Effect of carbon and Nitrogen sources on growth of *E.coli*
4. Effect of salinity on growth of microbes
5. Separation of Nucleic Acid by AGE
6. Separation of protein by PAGE
7. Competent Cell production
8. Transformation of Competent cells
9. SCP production – Azolla and Spirulina
10. Introduction to Bioinformatics databases: NCBI, PDB, DDBJ, UniProt.
11. Sequence retrieval using BLAST.
12. Similarity search- Get any two sequence in FASTA format
13. Use ORF finder of NCBI to predict all possible ORF in a DNA sequence
14. Use MOTIF search and PROTPARM tools
15. Sequence alignment and phylogenetic analysis using Clutal W and PHYLIP
16. Nanoparticle synthesis using bacteria
17. Nanoparticle synthesis using plants
18. BIOPHYTHON
19. R Programming
20. Production of organic acids and enzymes