

DEPARTMENT OF MICROBIOLOGY

ANALYTICAL TECHNIQUES IN BACTERIAL GENOMICS

Objective

To train the students with hands on experience on the basic and advanced concepts of genomics which involves- Bacterial transformation, Southern hybridization and Genomics data analysis using bioinformatics tools.

Resource Person & Coordinators

Dr. Vemula Vani

Mrs. Soumya Shanbhag

Dr. Nimutha Venugopal C

Dr. Swetha P

HOD

Dr. Prasanna
Srinivas R

Principal

Dr. Pushpa H

Value Added Program

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Modules

- **Module 1: Basic concepts in Genomics**
- Bacterial Transformation
- Agarose gel electrophoresis
- Bioinformatics in genomics
- Genomic sequence databases

- **Module 2: Advanced concepts in Genomics & their applications**
- Southern blotting
- Hybridization and detection of DNA
- Sequence alignment tools
- Sequence similarity search tools
- Restriction mapping of genomic sequences.

BSc IV Semester students
Registration is free
Total participants restricted to 40

Participation Certificate will be provided

Date: 19th to 21st January 2026

Venue: MB Lab

Time: 9:30am onwards

**Scan the QR code for
further details**

