



Microbial Genetics

Keya Chaudhari

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Microbial Genetics focuses on the current state of knowledge on the genetics of bacteria, bacteriophages, and recombinant DNA technology and its applications in a way understandable to the students, teachers, and scientists. The book expounds on the specialized aspects of microbial genetics and technologies, keeping in mind the syllabi of different Indian universities at the post-graduate level. Latest information on microbial genetics has been outlined in the book in a lucid manner.

Key Features:

- Details of the genetics of bacteria, bacteriophages, and recombinant DNA technology
- Discussion of various areas of microbial genetics
- Analysis of the field of bacterial molecular genetics enhanced by the contribution of a number of researchers

Contents:

Part I: Microbial Genetics

1. Basic Molecular Genetics: DNA Structure, Replication, and Repair
2. Basic Molecular Genetics: Gene Expression and Regulation
3. Methods of Genetic Analysis
4. Conjugation
5. Transformation
6. Transduction
7. Techniques for Studying Bacteriophages
8. Plasmids
9. Genetic Rearrangements and their Evolutionary Significance

Part II: Recombinant DNA Technology

10. Recombinant DNA Technology
11. Construction of DNA Libraries
12. Protein Expression in Bacteria
13. Sequencing of DNA and Proteins
14. Synthesis of Oligonucleotides
15. Site-specific Mutagenesis
16. Protein Engineering
17. Gene Isolation and Synthesis
18. Polymerase Chain Reaction
19. DNA Fingerprinting and Footprinting
20. RAPD, RFLP, and AFLP
21. Restriction Mapping
22. Application of Recombinant DNA Technology
23. Containment and Ethics in Genetic Engineering

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