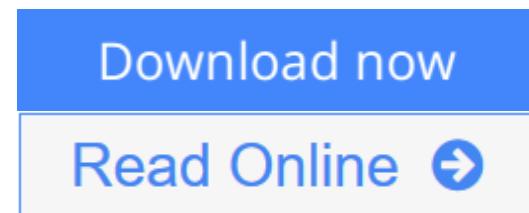


Molecular Biology and Biotechnology: basic experimental protocols

By M P Bansal



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Molecular Biology and Biotechnology: basic experimental protocols is a compilation of methods and techniques commonly used in biomedical and biotechnological studies. The book aims to provide ample support to both students and faculty while conducting practical lessons. Four sections are covered in this book Genomics, Proteomics, Quantitative Biochemistry, and Bioinformatics. A concise introductory note accompanies each protocol/method described for better comprehension. Every topic discussed is supported by actual methods and their expected results, and is accompanied by relevant questions.

Key features:

- Ready design of basic experiments in biomedical and biotechnology sciences.
- Extensive coverage of basic equipment used in biomedical and biotechnological studies.
- Concise information on each subject, with focus on practical lessons.

Contents:

SECTION I: GENOMICS

1. Initial Characterization of DNA
2. DNA Probe Preparation, Southern Blotting, and Hybridization
3. RFLP and SSCP Analysis of DNA
4. Protein DNA Interaction
5. Plasmid DNA Analysis
6. Polymerase Chain Reaction
7. RNA Analysis Techniques
8. Gene or mRNA Expression in Cells/Tissues
9. Transcription Activity In Vivo
10. Apoptosis Analysis

SECTION II: PROTEOMICS

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12. Quantitative Determination of Proteins

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19. Labelling of Proteins and its Uses
20. Statistical Analysis of Biochemical Data

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21. Sequence Retrieval from Databases
22. Sequence Similarity Search
23. Protein Sequence and Structure Analysis
24. Nucleotide Sequence Analysis
25. Molecular Phylogeny

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Molecular Biology and Biotechnology: basic experimental protocols By M P Bansal Bibliography

- Sales Rank: #3654279 in Books
- Published on: 2012-10-11
- Dimensions: .0" h x .0" w x .0" l, 1.59 pounds
- Binding: Paperback
- 392 pages



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