

Molecular Biology: A Project Approach

Susan J. Karcher



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This course manual instructs students in recombinant DNA techniques and other essential molecular biology techniques in the context of projects. The project approach inspires and captivates students; it involves them in the scientific experience, providing continuity to laboratory bench time and an understanding of the principles underlying the techniques presented.

Molecular Biology is a must for any department, operating under budgetary constraints that offers or plans to offer a course in molecular cloning.

Key Features

- * Includes a glossary of over 200 terms important for understanding molecular biology
- * Uses an inexpensive source of eukaryotic cells great for schools on a budget
- * Includes Methods Locator that provides instant access to the latest methods
- * Contain clearly written, easy-to-follow, student-tested instructions:
- * Sterile techniques
- * Phage titration
- * Gel electrophoresis of DNA
- * Restriction enzyme digestion
- * Plasmid isolation
- * Transformation of E. Coli
- * Recombinant DNA cloning
- * Nick translation labeling
- * Nonradioactive primer labelling
- * Nonradioactive DNA detection
- * Southern blotting
- * Colony hybridization
- * Purification of plant DNA
- * RNA purification
- * Northern blotting
- * Purification of poly A+ RNA
- * Polymerase chain reaction (PCR)



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