



# Molecular Biology: A Project Approach

*Susan J. Karcher*

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## **Molecular Biology: A Project Approach** Susan J. Karcher

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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