Molecular Biology: A Project Approach

Susan J. Karcher
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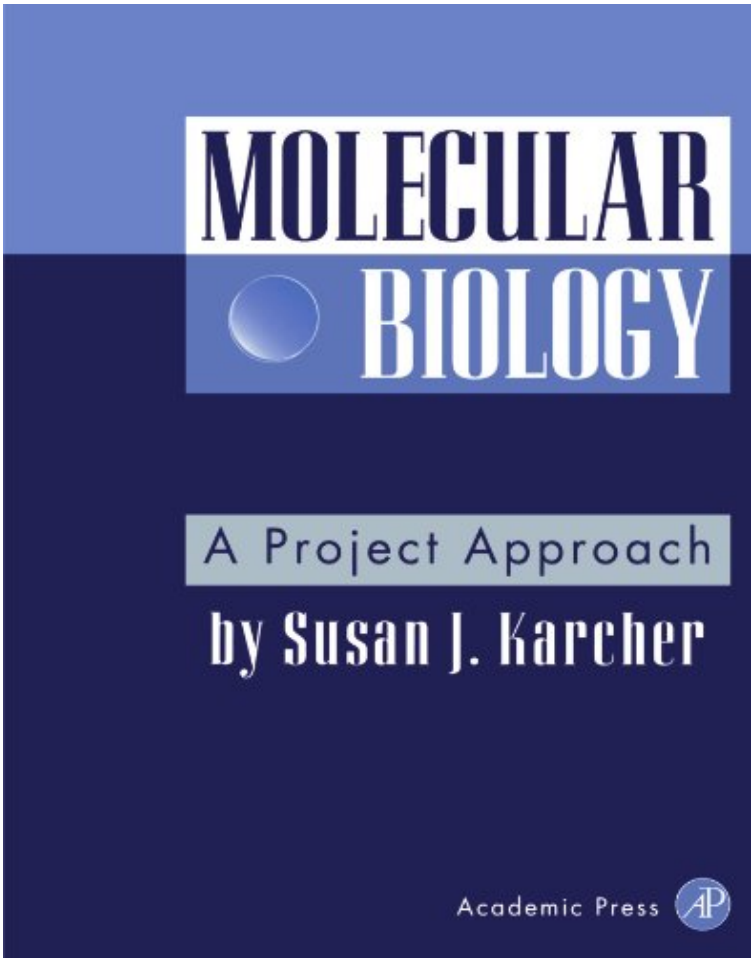

#4194149 in Books Susan J Karcher 1995-11-29 1995-11-15Original language:EnglishPDF # 1 9.25 x .69 x 7.25l, 1.36 #File Name: 0123977207280 pagesMolecular Biology A Project Approach | File size: 20.Mb

Susan J. Karcher : Molecular Biology: A Project Approach before purchasing it in order to gage whether or not it would be worth my time, and all praised Molecular Biology: A Project Approach:

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.Includes a glossary of over 200 terms important for understanding molecular biologyUses an inexpensive source of eukaryotic cells - great for schools on a budgetIncludes Methods Locator that provides instant access to the latest methodsContain clearly written, easy-to-

follow, student-tested instructions: Sterile techniquesPhage titrationGel electrophoresis of DNARestriction enzyme digestionPlasmid isolationTransformation of E. ColiRecombinant DNA cloningNick translation labelingNonradioactive primer labellingNonradioactive DNA detectionSouthern blottingColony hybridizationPurification of plant DNARNA purificationNorthern blottingPurification of poly A+ RNAPolymerase chain reaction (PCR)

"This book is excellent in its technical and practical details. The background information, clear instructions and copious supporting information about recipes, sources, and further readings should make it possible for any student to successfully complete the experiments and gain experience with these techniques." --Sara Abraham in CANADIAN JOURNAL OF MEDICAL LABORATORY SCIENCE "Once again an extensive introduction to the techniques in this chapter make this book worth having just because of the background material provided." --Cynthia M. Galloway in PLANT SCIENCE BULLETIN "...very valuable. The book, which is a guideline for instructors, may also serve as a rapid source of protocols for scientists not used to working in molecular biology. Its reasonable price should contribute to the foreseeable success of this book." --JOURNAL OF PLANT PHYSIOLOGYFrom the Back CoverThis manual bridges the gap between theory and protocol. By presenting extensive background information as well as easy-to-understand and easy-to-follow protocols, this book allows students to perform and understand the latest techniques in molecular biology. Thus, it can serve as the sole textbook for molecular biology methods courses. Molecular Biology: A Project Approach gives students an understanding of the significance of the techniques they are learning and their theoretical basis within the framework of integrated projects. This project approach provides continuity and simulates a real research experience. Key Features Includes a glossary of over 200 terms important for understanding molecular biologyUses an inexpensive source of eukaryotic cells - great for schools on a budgetContain clearly written, easy-to-follow, student-tested instructionsIncludes Methods Locator that provides instant access to the latest methods