# Recombinant DNA Principles and Methodologies

James J. Greene Venigalla B. Rao

# **Recombinant Dna Principles And Methodologies**

Alan E. H. Emery, David L. Rimoin

#### **Recombinant Dna Principles And Methodologies:**

Recombinant DNA Principles and Methodologies James Greene, 2021-12-16 This comprehensive yet balanced work emphasizes the principles and rationale underlying recombinant DNA methodology while furnishing a general understanding of the experimental protocols suggesting flexible approaches to resolving particular molecular necessities that are easily adaptable to readers specific applications Features summary tables presenting at a glance information on practices of recombinant DNA methodologies Recombinant DNA Principles and Methodologies discusses basic and advanced topics requisite to the employment of recombinant DNA technology such as plasmid biology nucleic acid biochemistry restriction enzymes cloning strategies gel electrophoresis southern and northern blotting preparation of probes phage lambda biology cosmids and genome analysis cloned gene expression polymerase chain reaction conventional and automated DNA sequencing site directed mutagenesis and more Elucidating the material with over 2250 edifying references equations drawings and photographs this state of the art resource is a valuable hands on guide for molecular and cell biologists biochemists bioprocess technologists applied and industrial microbiologists virologists geneticists chemical engineers and upper level undergraduate and graduate students in these disciplines **Principles and Methods of Plant Breeding** Slavko Borojević, 1990-12-31 No detailed description available for Principles and Methods of Plant Breeding and Techniques of Biochemistry and Molecular Biology Keith Wilson, John Walker, 2010-03-04 Uniquely integrates the theory and practice of key experimental techniques for bioscience undergraduates Now includes drug discovery and clinical Sabiston Textbook of Surgery E-Book Courtney M. 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Nair, 2010-12 Recombinant DNA Technology Sardul Singh Sandhu, 2013-12-30 The objective of the book is to introduce the basic principle and techniques used to make Recombinant DNA The book commences with an introduction to different tools used for Gene cloning The final chapters cover the application of Recombinant Technology on current research and provide an inside look on Human Genome Project Ribozyme Technology Antisense technology DNA sequencing Protein Engineering Transgenic technology and development of vaccines It features summary of chapter in the form of flow charts highlighting the key points The book also includes an appendix which provides in depth descriptions of protocols which cover the basic aspects of Molecular biology and glossary defining nearly all the possible terms mentioned in the book The purpose of this book is to provide an insight on theoretical aspects of Recombinant DNA manipulation with special emphasis on different procedures to create chimeric molecules using examples from actual experimental works The book has been designed for under graduates post graduates and technicians who wish to know and use the principles and techniques of Recombinant DNA Technology **Chemical Abstracts Service Source Index** American Chemical Society. 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