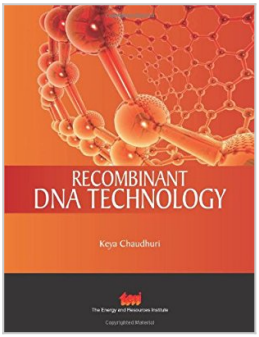

Recombinant DNA Technology

By Keya Chaudhuri

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Recombinant DNA Technology is focussed on the current state of knowledge on the recombinant DNA technology and its applications. The book will provide comprehensive knowledge on the principles and concepts of recombinant DNA technology or genetic engineering, protein expression of cloned genes, PCR amplification of DNA, RFLP, AFLP and DNA fingerprinting and finally the most recent siRNA technology. It can be used by post-graduate students studying and teachers teaching in the area of Molecular Biology, Biotechnology, Genetics, Microbiology, Life Science, Pharmacy, Agriculture and Basic Medical Sciences.

Key Features:
• Comprehensive analysis of the DNA structure and the process of DNA replication
• Extensive analysis of restriction endonucleases, sequencing by Sanger's method, and protein production in bacteria
• Detailed description of PCR, RFLP, AFLP, and DNA fingerprinting
• Thorough explanation of site-directed mutagenesis and cloning in cosmid vectors
• In-depth discussion on methods for creating recombinant DNA molecules and construction of DNA libraries
• Concepts and applications of agarose gel and polyacrylamide gel electrophoresis

Contents:
Recombinant DNA Technology • Methods for Creating Recombinant DNA Molecules • Properties of Restriction Endonucleases • Screening of Recombinant DNA Molecules • Construction of DNA Library • Sequencing by Sanger's Method • Protein Production in Bacteria • Site-directed Mutagenesis • Restriction Fragment Length Polymorphism • Polymerase Chain Reaction DNA Fingerprinting • RNAi and siRNA Technology • Molecular Biology Methods • Features of Commonly Used Vectors • Isolation and Purification of Plasmid Vectors • Cloning in Cosmid Vectors • Construction of Genomic DNA Libraries in Cosmid Vectors • Enzymes Used in Molecular Cloning •Agarose Gel and Polyacrylamide Gel Electrophoresis • Detection and Extraction of DNA from Gels • Revision Questions • Bibliography • Glossary • Colour Plates • Index • About the Author

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