



Laboratory Manual for GENETIC ENGINEERING

S. JOHN VENNISON

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This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of genetic engineering.

The book explains the methods for the isolation of DNA and RNA as well as electrophoresis techniques for DNA, RNA and proteins. It discusses DNA manipulation by restriction digestion and construction of recombinant DNA by ligation. Besides, the book focuses on various methodologies for DNA transformation and molecular hybridization. While discussing all these techniques, the book puts emphasis on important techniques such as DNA isolation from Gram positive bacteria including *Bacillus* sp., the slot-lysis electrophoresis technique which is useful in DNA profile analysis of both Gram negative and positive bacteria, plasmid transduction in *Bacillus* sp., and the conjugal transfer of plasmid DNA in cyanobacteria, *Bacillus* and *Agrobacterium tumefaciens*.

This book is intended for the undergraduate and postgraduate students of biotechnology for their laboratory courses in genetic engineering. Besides, it will be useful for the students specializing in genetic engineering, molecular biology and molecular microbiology.

KEY FEATURES :

Includes about 60 different experiments.

Contains several figures to reinforce the understanding of the techniques discussed.

Gives useful information about preparation of stock solutions, DNA/protein conversions, restriction enzymes and their recognition sequences, and so on in Appendices.

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Jessie Nathan:

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