

BIOTECHNOLOGY principles and applications

With the recent upsurge of interest in biotechnology, there is a need for this book which covers a wide range of biotechnological subjects. Written by an eminent team, it is intended as an introduction to biotechnology for senior undergraduates and postgraduates in the fields of biochemistry, microbiology, chemical

engineering, environmental and agricultural biology and medicine. With its emphasis on the breadth of the subject, its historical development and future prospects, the book will also provide a general introduction for a wide readership.

Some titles of related interest

Principles of Plant Biotechnology: an Introduction to Genetic Engineering in Plants

S.H. Mantell, J.A. Matthews and R.A. McKee

1985. 276 pages, 93 illustrations

This book presents the principles of plant biotechnology as related to crop improvement and the controlled but directed use of natural plant processes in industry. It serves as an introduction to this rapidly expanding field for undergraduates and those working in the plant sciences or related disciplines who wish to exploit the potential of the emerging techniques of gene manipulation and tissue culture in the broad area of crop improvement and development.

Basic Cloning Techniques: a Manual of Experimental Procedures

Edited by R.H. Pritchard and I.B. Holland

1985. 208 pages, 15 illustrations

This manual is written by the staff of the School of Biological Sciences at the University of Leicester, and is based on the successful cloning courses held there. It provides a practical guide, with theoretical background, through the maze of complex techniques now available for undergraduates and postgraduates and research workers interested in prokaryote and eukaryote molecular biology, with the aim of making these techniques more accessible.

Soil Biotechnology: Microbiological Factors in Crop Productivity

J.M. Lynch

1983. 202 pages, 117 illustrations

an exciting account of how micro-organisms can or might be manipulated to improve 'soil health' and crop production.

The book will be valuable to both undergraduates and research workers in microbiology and the plant/soil sciences.

Biologist

Principles of Gene Manipulation: an Introduction to Genetic Engineering

Studies in Microbiology, Volume 2

R.W. Old and S.B. Primrose

Third Edition, 1985. 412 pages, 128 illustrations

There were very few courses devoted to genetic engineering when this textbook was first planned. Now the teaching of genetic engineering is almost commonplace and an essential element in the training of a modern biologist. The development of this ever more successful text reflects the change in status and growth of the subject. Virtually the whole book has been rewritten with the incorporation of much new material particularly in the later, applied chapters and a new set of artwork has been prepared using two colours. Yet despite all the changes and expansion, the authors have retained the clear, direct style of the previous editions. Basic principles are presented in sufficient detail to enable the non-specialist to understand the current literature, while specialists will find the book a useful source of reference.

Introduction to Biotechnology

Basic Microbiology, Volume 10

C.M. Brown and I. Campbell

In preparation

This title provides an introduction to biotechnology for undergraduates in the fields of biochemistry, microbiology, chemical engineering, plant science, genetics and molecular biology. It is designed as additional to basic texts in microbiology, and therefore assumes some knowledge of biochemistry and microbiology in the reader. There is a wide coverage of selected subject areas and examples. This is not just another textbook on industrial microbiology, but an introduction to a subject which is essentially multidisciplinary.

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BLACKWELL SCIENTIFIC PUBLICATIONS LTD
Osney Mead, Oxford OX2 0EL
8 John Street, London WC1N 2ES
23 Ainslie Place, Edinburgh EH3 6AJ
52 Beacon Street, Boston, Massachusetts 02108, USA
667 Lytton Avenue, Palo Alto, California 94301, USA
107 Barry Street, Carlton, Victoria 3053, Australia

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