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Recombinant DNA

Technology I. K.

International Pvt Ltd

The book embodies 22 chapters covering various important disciplines of biotechnology, such as cell biology, molecular biology, molecular genetics, biophysical methods, genomics and proteomics, metagenomics, enzyme technology, immune-technology, transgenic plants and animals, industrial microbiology and environmental biotechnology. The book is illustrative. It is written in a simple language

Gene Cloning and DNA Analysis

CRC Press

Uniquely integrates the theory and practice of key experimental techniques for bioscience

undergraduates. Now includes drug discovery and clinical biochemistry.

Molecular Biotechnology
Laxmi Publications

Biotechnology: Principles and Applications covers the broad vistas of biotechnology, providing

students with a sound basis of understanding various aspects of this ever-growing field. It is intended to be comprehensive and to meet the varied needs of different institutions. The book includes a wide coverage of topics needed to appreciate the principles and applied aspects of biotechnology. *Molecular Biotechnology* CRC Press
Textbook of Molecular Biotechnology covers an amazing range of topics from the basic structure of the cell and diversity of microorganisms to the latest techniques in the field of biotechnology. Various topics have been included for the benefit of graduate and postgraduate students. In addition, the book will be of immense help for the researchers and can be used as a laboratory manual for various biotechnological techniques. A number of reputed subject experts, scientists, academicians, and researchers have contributed their chapters to this volume. This book describes the role of basic biotechnological tools in various spheres of human society, namely,

agriculture, nutraceuticals, pharmaceuticals, nanobiotechnology, proteomics, metagenomics and Intellectual Property rights.

Molecular Biotechnology: Therapeutic Applications and Strategies John Wiley & Sons

Molecular biotechnology continues to triumph, as this textbook testifies - edited by one of the academic pioneers in the field and written by experienced professionals. This completely revised second edition covers the entire spectrum, from the fundamentals of molecular and cell biology, via an overview of standard methods and technologies, the application of the various "-omics", and the development of novel drug targets, right up to the significance of system biology in biotechnology. The whole is rounded off by an introduction to industrial biotechnology as well as chapters on company foundation, patent law and marketing. The new edition features:
- Large format and full color throughout - Proven

structure according to basics, methods, main topics and economic perspectives - New sections on system biology, RNA interference, microscopic techniques, high throughput sequencing, laser applications, biocatalysis, current biomedical applications and drug approval - Optimized teaching with learning targets, a glossary containing around 800 entries, over 500 important abbreviations and further reading. The only resource for those who are seriously interested in the topic. Bonus material available online free of charge: www.wiley-vch.de/home/molecbiotech

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Biotechnology Firewall Media

MOLECULAR

BIOTECHNOLOGY

Therapeutic Applications and Strategies SUNIL MAULIK and SALIL D.

PATEL Recombinant DNA

technology, or genetic engineering, has

revolutionized our understanding of life at the molecular level-giving us a detailed picture of the living cell's functions and spawning diverse biotechnologies that use molecules, cells, tissues, and even entire

organisms. This introduction to molecular biotechnology is a practical, up-to-date guide to this rapidly growing field. Based on courses taught by the authors to biotechnology professionals, **Molecular Biotechnology: Therapeutic Applications and Strategies** applies the principles of modern biotechnology to advances and trends in the development of therapeutic strategies and approaches to disease prevention and intervention. By focusing on select applications and strategies, this volume exemplifies the convergence of biological, chemical, and informational advances in the discovery of novel targets and drugs. This multidisciplinary approach, essential to the development of commercial therapeutic molecules, includes carefully selected real-world examples from the pharmaceutical and biotechnology industries. Specific topics covered include: * Genome Based Medicine and the Human Genome Project * Human Gene Therapy * Combinatorial Chemistry * Rational Drug Design * Reengineering the Immune System User-

friendly and organized for maximum understanding, **Molecular Biotechnology: Therapeutic Applications and Strategies** is an excellent text/reference for biotechnology professionals, researchers, physicians, students, managers, industry analysts, and investors interested in learning more about the field of molecular biotechnology.

Handbook of Molecular Biotechnology John

Wiley & Sons

Biotechnology Is A Multi-Disciplinary Course, Having Its Foundations In Many Fields Including Biology, Microbiology, Biochemistry, Molecular Biology, Genetics, Chemistry And Chemical Engineering. It Has Been Considered As A Series Of Enabling Technologies Involving The Practical Applications Of Organisms Or Their Cellular Components To Manufacturing And Service Industries And Environmental Management. Initially, Biotechnology Was An Art, Involved In The Production Of Wines, Beers And Cheese. Now It Involves Series Of Advance Technologies Spanning Biology, Chemistry And Process Engineering. In Recent Years Innovations

Involving Genetic Engineering Have Had A Major Impact On Biotechnology. Its Applications Are Diverse, Including The Production Of New Drugs, Transgenic Organisms And Biological Fuels, Genetherapy And Clearing Up Pollution. It Is Also About Providing Cleaning Technology For A New Millennium; Of Providing Means Of Waste Disposal, Of Dealing With Environmental Problems. It Is In Short, One Of The Major Technology Of Twenty-First Century That Will Sustain Growth And Development In Countries Throughout The World For Several Decades To Come. It Will Continue To Improve The Standard Of Our Lives, From The Improved Medical Treatments Through Its Effects On Foods And Food Supply And To The Environment. No Aspect Of Our Lives Will Be Unaffected By Biotechnology. This Textbook On Biotechnology Has Been Written To Provide An Overview Of Many Of Fundamental Aspects That Underpin All Biotechnology And To Provide Examples Of How These Principles Are Put Into Operation, I.E. From The Starting Substrate Or Feed Stock Through The

Final Product. The Textbook Also Caters To The Requirement Of The Syllabus Prescribed By Various Indian Universities For Undergraduate Students Pursuing Biotechnology, Applied Microbiology, Biochemistry And Biochemical Engineering. Practical Biotechnology S. Chand Publishing Providing a strong base in this emerging and highly promising field, *Molecular Biotechnology: Principles and Practice* strikes a balance between two important aspects of the science - the theory of molecular biology and the experimental approach to the study of biological processes. The main feature of this book is that it covers a wide range of molecular techniques in biotechnology and is designed to be a student- and teacher-friendly textbook. Each technique is described conceptually, followed by a detailed experimental account of the steps involved. The book can also serve as reference to the interested reader who is venturing into the field of biotechnology for the first time. *A Textbook of Biotechnology* Springer Designed to inform and inspire the next

generation of plant biotechnologists Plant Biotechnology and Genetics explores contemporary techniques and applications of plant biotechnology, illustrating the tremendous potential this technology has to change our world by improving the food supply. As an introductory text, its focus is on basic science and processes. It guides students from plant biology and genetics to breeding to principles and applications of plant biotechnology. Next, the text examines the critical issues of patents and intellectual property and then tackles the many controversies and consumer concerns over transgenic plants. The final chapter of the book provides an expert forecast of the future of plant biotechnology. Each chapter has been written by one or more leading practitioners in the field and then carefully edited to ensure thoroughness and consistency. The chapters are organized so that each one progressively builds upon the previous chapters. Questions set forth in each chapter help students deepen their understanding and facilitate classroom discussions. Inspirational

autobiographical essays, written by pioneers and eminent scientists in the field today, are interspersed throughout the text. Authors explain how they became involved in the field and offer a personal perspective on their contributions and the future of the field. The text's accompanying CD-ROM offers full-color figures that can be used in classroom presentations with other teaching aids available online. This text is recommended for junior- and senior-level courses in plant biotechnology or plant genetics and for courses devoted to special topics at both the undergraduate and graduate levels. It is also an ideal reference for practitioners.

Basics of Biotechnology
Ane Books Pvt Ltd
The increasing integration between gene manipulation and genomics is embraced in this new book, *Principles of Gene Manipulation and Genomics*, which brings together for the first time the subjects covered by the best-selling books *Principles of Gene Manipulation and Principles of Genome Analysis & Genomics*.
Comprehensively revised,

updated and rewritten to encompass within one volume, basic and advanced gene manipulation techniques, genome analysis, genomics, transcriptomics, proteomics and metabolomics Includes two new chapters on the applications of genomics
An accompanying website - www.blackwellpublishing.com/primrose - provides instructional materials for both student and lecturer use, including multiple choice questions, related websites, and all the artwork in a downloadable format. An essential reference for upper level undergraduate and graduate students of genetics, genomics, molecular biology and recombinant DNA technology.

Principles of Gene Manipulation and Genomics John Wiley & Sons
Known world-wide as the standard introductory text to this important and exciting area, the sixth edition of *Gene Cloning and DNA Analysis* addresses new and growing areas of research whilst retaining the philosophy of the previous editions. Assuming the reader has little prior

knowledge of the subject, its importance, the principles of the techniques used and their applications are all carefully laid out, with over 250 clearly presented four-colour illustrations. In addition to a number of informative changes to the text throughout the book, the final four chapters have been significantly updated and extended to reflect the striking advances made in recent years in the applications of gene cloning and DNA analysis in biotechnology. *Gene Cloning and DNA Analysis* remains an essential introductory text to a wide range of biological sciences students; including genetics and genomics, molecular biology, biochemistry, immunology and applied biology. It is also a perfect introductory text for any professional needing to learn the basics of the subject. All libraries in universities where medical, life and biological sciences are studied and taught should have copies available on their shelves. "... the book content is elegantly illustrated and well organized in clear-cut chapters and subsections... there is a Further Reading section

after each chapter that contains several key references... What is extremely useful, almost every reference is furnished with the short but distinct author's remark." –Journal of Heredity, 2007 (on the previous edition)

Molecular Biotechnology (2nd Edition) John Wiley & Sons

This is one volume 'library' of information on molecular biology, molecular medicine, and the theory and techniques for understanding, modifying, manipulating, expressing, and synthesizing biological molecules, conformations, and aggregates. The purpose is to assist the expanding number of scientists entering molecular biology research and biotechnology applications from diverse backgrounds, including biology and medicine, as well as physics, chemistry, mathematics, and engineering.

A Textbook of Molecular Biotechnology Jones & Bartlett Publishers
On 800 pages this textbook provides students and professionals in life sciences, pharmacy and biochemistry with a very

detailed introduction to molecular and cell biology, including standard techniques, key topics, and biotechnology in industry.

Applied Molecular Biotechnology S. Chand Publishing

This series is designed for junior undergraduates and diploma students in all biological sciences, covering the field of modern biochemistry and integrating animal, plant and microbial topics. This volume focuses on the nature and behaviour of genetic material.

Plant Biotechnology and Genetics CRC Press

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.

Encyclopaedia of Molecular Biotechnology

Alpha Science

International, Limited

The book will be useful for undergraduate students

as a

supplementary/reference text in the field of molecular biotechnology.

Molecular

Biotechnology Atlantic

Publishers & Dist

Biotechnology, Second

Edition approaches

modern biotechnology

from a molecular basis,

which has grown out of

increasing biochemical

understanding of genetics

and physiology. Using

straightforward, less-

technical jargon, Clark

and Pazdernik introduce

each chapter with basic

concepts that develop

into more specific and

detailed applications. This

up-to-date text covers a

wide realm of topics

including forensics,

bioethics, and

nanobiotechnology using

colorful illustrations and

concise applications. In

addition, the book

integrates recent,

relevant primary research

articles for each chapter,

which are presented on

an accompanying

website. The articles

demonstrate key concepts

or applications of the concepts presented in the chapter, which allows the reader to see how the foundational knowledge in this textbook bridges into primary research. This book helps readers understand what molecular biotechnology actually is as a scientific discipline, how research in this area is conducted, and how this technology may impact the future. - Up-to-date text focuses on modern biotechnology with a molecular foundation - Includes clear, color illustrations of key topics and concept - Features clearly written without overly technical jargon or complicated examples - Provides a comprehensive supplements package with an easy-to-use study guide, full primary research articles that

demonstrate how research is conducted, and instructor-only resources
An Introduction to Molecular Biotechnology
 Airiti Press
 Applied Molecular Biotechnology: The Next Generation of Genetic Engineering explains state-of-the-art advances in the rapidly developing area of molecular biotechnology, the technology of the new millennium. Comprised of chapters authored by leading experts in their respective fields, this authoritative reference text: Highlights the latest omics-ba
Basic Techniques in Biochemistry, Microbiology and Molecular Biology MJP
 Publisher
 The second edition explains the principles of

recombinant DNA technology as well as other important techniques such as DNA sequencing, the polymerase chain reaction, and the production of monoclonal antibodies.
Applied Molecular Biology
 Royal Society of Chemistry
 Introduces the different tools and methods of molecular biology from both a theoretical and practical perspective. Discusses the principles and procedures, their potential and drawbacks, involved in experiments in laboratories. Provides information on safety guidelines, ethical issues, genetic engineering work and laboratory set-ups. The books is aimed at advanced students, as well as research scientists and technicians.

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