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Recent Indian Publications on Display at World Book Fair - Sudhir Chandra Mathur 1996
Catalog of books on display at the 12th New Delhi World Book Fair, held at New Delhi in February 1996.
Dairy Microbiology - P. Parihar 2008-01-01

Bibliography of Agriculture with Subject Index - 1992

Microbiology - S. S. Purohit 2001
1. Introduction and History of Microbiology, 2. Origin and Evolution of Microorganisms, 3. Microbial Taxonomy, 4. Viruses: Nature, Classification, Morphology and Synthesis, 5. Bacteriophages, 6. Viruses of Eucaryotes, 7. Mycoplasmas and Mycoplasmas Viruses, 8. Mycobacteria, Myxobacteria, Rickettsiae and Chlamydiae, 9. Bacteria: Classification, Nomenclature and Identification, 10. Bacteria: Eubacteria, 11. The Bacteria: Archaeobacteria, Actinomycetes, Atinoplanetes and Maduromycetes, 12. Cyanobacteria, 13. Eucaryota: Algae, 14. Eucaryota: Fungi, 15. Protozoa, 16. Biology of Lichens, 17. Growth and Differentiation, Nutrition, Respiration and Photosynthesis of Microorganisms, 18. Genetics of Microorganisms, 19. Mutations in Microorganisms, 20. Methods of Sterilization and Disinfestation, 21. Environmental Microbiology, 22. Soil Microbiology: General, 23. Soil Microbiology Geochemical Cycles, 24. Microbiology of Air, 25. Microbiology of Water, 26. Microbiology of Food, 27. Microbiology of Dairy and Dairy Products, 28. Microorganisms and Deases in Man: Basic Concepts, 29. Human Pathogenic Viruses, 30. Human Pathogenic Bacteria, 31. Human Pathogenic Protozoa, 32. Microorganisms and Plant Diseases, 33. Plant Pathogenic Viruses, 34. Plant Pathogenic Bacteria, 35. Plant Pathogenic Fungi, 36. Concepts of Immunology and Serology, 37. Immunity, Vaccine, Toxoids, Interferon and Interference, 38. Antimicrobial Drugs, 39. Microbes in Economic Use, 40. Microbes and Genetic Engineering, 41. Microbes and Biotechnology: Industrial Enzymes and Fermentation Technology, 42. Microbes and Biotechnology: Production of Microbial Biocides, 43. Microbes and Biotechnology Environmental Protection, 44. Biosensors, Biochips, Biofilms and Biosurfactents, 45. Glossary.
Microbiology Fundamentals And Applications (7Th Ed.) - S.S. Purohit 2008-07-01

Microbiology - S. S. Purohit 1998

Optimization and Applicability of Bioprocesses - Hemant J. Purohit 2018-01-02
This book argues that the sustainable management of resources requires a systematic approach that primarily involves the integration of green innovative biotechnological strategies and eco-engineering. It discusses how microbial community intelligence can be used for waste management and bio-remediation and explains how biological processes can be optimized by integrating genomics tools to provide perspectives on sustainable development. The book describes the application of modern molecular techniques such as fluorescence in situ hybridization (FISH), highly sensitive catalyzed reporter deposition (CARD)-FISH, in situ DNA-hybridization chain reaction (HCR) and methods for detecting mRNA and/or functional genes to optimize bioprocessess. These techniques, supplemented with metagenomic analysis, reveal that a large proportion of micro-organisms still remain to be identified and also that they play a vital role in establishing bioprocesses.

Biotechnology - S. S. Purohit 2005

Pharmaceutical Microbiology - Ashutosh 2007

Pharmaceutical Biotechnology - Gary Walsh 2013-04-25
Pharmaceutical Biotechnology offers students taking Pharmacy and related Medical and Pharmaceutical courses a comprehensive introduction to the fast-moving area of biopharmaceuticals. With a particular focus on the subject taken from a pharmaceutical perspective, initial chapters offer a broad introduction to protein science and recombinant DNA technology- key areas that underpin the whole subject. Subsequent chapters focus upon the development, production and analysis of these substances. Finally the book moves on to explore the science, biotechnology and medical applications of specific biotech products categories. These include not only protein-based substances but also nucleic acid and cell-based products. introduces essential principles underlining modern biotechnology- recombinant DNA technology and protein science an invaluable introduction to this fast-moving subject aimed specifically at pharmacy and medical students includes specific ‘product category chapters’ focusing on the pharmaceutical, medical and therapeutic properties of numerous biopharmaceutical products. entire chapter devoted to the principles of genetic engineering and how these drugs are developed. includes numerous relevant case studies to enhance student understanding no prior knowledge of protein structure is assumed
Plant Biotechnology - H. S. Chawla 2003
Basics; Laboratory organization; Sterilization techniques; Nutrition medium; Choice of the explant; Plant tissue culture; Seed culture; Micropropagation- meristem culture; Micropropagation- axillary bud proliferation; Micropropagation- adventitious regeneration; Micropropagation- organogenesis; Micropropagation- embryogenesis; Cell suspension; Secondary metabolite production in a cell suspension culture; Anther culture; Protoplast isolation and fusion; Biotechnology; SDS-PAGE electrophoresis of proteins; Isolation of DNA from plant tissues; Isolation an purification of plasmid DNA; Restriction enzyme digestion of DNA; Agarose gel electrophoresis; Preparation of competent cells, transformation of E. coil with plasmid DNA and ligation of insert DNA to a vector; Agrobacterium-mediated gene transfer; Biolistic method of transformation in plants; In vitro amplification of DNA by PCR: detection of transgenes; RAPD analysis; Microsatellite marker analysis; Southerm biotting; Southerm hybridization.
PHARMACEUTICAL BIOTECHNOLOGY - Chandrakant Kokare 2019-11

Indian Books in Print - 2002

Plant Physiology - Arvind Kumar 2001

Annals of Plant Protection Sciences - 1993

Elements of Biotechnology - P. K. Gupta 1994

Nanocosmetics - Arun Nanda 2020-05-06

Nanotechnology is key to the design and manufacture of the new generation of cosmetics. Nanotechnology can enhance the performance and properties of cosmetics, including colour, transparency, solubility, texture, and durability. Sunscreen products, such as UV nano-filters, nano-TiO2 and nano-ZnO particles, can offer an advantage over their traditional counterparts due to their broad UV-protection and non-cutaneous side effects. For perfumes, nano-droplets can be found in cosmetic products including Eau de Toilette and Eau de Parfum. Nanomaterials can also be used in cosmetics as transdermal drug delivery systems. By using smart nanocontainers, active compounds such as vitamins, antioxidants, nutrients, and anti-inflammatory, anti-infective agents, can be delivered effectively. These smart nanocontainers are typically related with the smart releasing property for their embedded active substances. These smart releases could be obtained by using the smart coatings as their outer nano-shells. These nano-shells could prevent the direct contact between these active agents and the adjacent local environments. Nanocosmetics: Fundamentals, Applications and Toxicity explores the formulation design concepts and emerging applications of nanocosmetics. The book also focuses on the mitigation or prevention of their potential nanotoxicity, potential global regulatory challenges, and the technical challenges of mass implementation. It is an important reference source for materials scientists and pharmaceutical scientists looking to further their understanding of how nanotechnology is being used for the new generation of cosmetics. Outlines the major fabrication and formulation design concepts of nanoscale products for cosmetic applications Explores how nanomaterials can safely be used for various applications in cosmetic products Assesses the major challenges of using nanomaterials for cosmetic applications on a large scale

Textbook of Pharmaceutical Biotechnology - Chandrakant Kokate 2012-05-14

Textbook of Pharmaceutical Biotechnology

Fundamentals of Biotechnology - S. S. Purohit 1994

International Books in Print - 1990

Current Catalog - 1991

First multi-year cumulation covers six years: 1965-70.

Biomaterials and Bionanotechnology - 2019-05-29

Biomaterials and Bionanotechnology examines the current state of the field within pharmaceutical sciences and concisely explains the history of biomaterials including key developments. Written by experts in the field, this volume within the Advances in Pharmaceutical Product Development and Research series deepens understanding of biomaterials and bionanotechnology within drug discovery and drug development. Each chapter delves into a particular aspect of this fast-moving field to cover the fundamental principles, advanced methodologies and technologies employed by pharmaceutical scientists, researchers and pharmaceutical industries to transform a drug candidate or new chemical entity into a final administrable dosage form, with particular focus on biomaterials and bionanomaterials. This book provides a comprehensive examination suitable for researchers working in the pharmaceutical, cosmetics, biotechnology, food and related industries as well as advanced students in these fields. Examines the most recent developments in biomaterials and nanomaterials for pharmaceutical sciences Covers important topics, such as the fundamentals of polymers science, transportation and bio interaction of properties in nanomaterials across biological systems, and nanotechnology in tissue engineering as they pertain specifically to pharmaceutical sciences Contains extensive references for further discovery on the role of biomaterials and nanomaterials in the drug discovery process

PLANT AND ANIMAL TISSUE CULTURE - Dr. SEEMA J PATEL

Biotechnology - S S. Purohit 1996

An Introduction to Molecular Biotechnology - Michael Wink 2013-11-14

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

Principles and Methods in Plant Molecular Biology, Biochemistry and Genetics - Prathibha Devi 2000

Book extensively deals with the Plant Sciences and the experiments can be easily tailored to suit individual conditions, hence should be of general interest to researchers and teachers who frame the syllabi. PREFACE.

Molecular Biology and Genetic Engineering - P. K. Gupta 2008

PART I Molecular Biology 1. Molecular Biology and Genetic Engineering Definition, History and Scope 2. Chemistry of the Cell: 1. Micromolecules (Sugars, Fatty Acids, Amino Acids, Nucleotides and Lipids) Sugars (Carbohydrates) 3. Chemistry of the Cell . 2. Macromolecules (Nucleic Acids; Proteins and Polysaccharides) Covalent and Weak Non-covalent Bonds 4. Chemistry of the Gene: Synthesis, Modification and Repair of DNA DNA Replication: General Features 5. Organisation of Genetic Material 1. Packaging of DNA as Nucleosomes in Eukaryotes Techniques Leading to Nucleosome Discovery 6. Organization of Genetic Material 2. Repetitive and Unique DNA Sequences 7. Organization of Genetic Material: 3. Split Genes, Overlapping Genes, Pseudogenes and Cryptic Genes Split Genes or .Interrupted Genes 8. Multigene Families in Eukaryotes 9. Organization of Mitochondrial and Chloroplast Genomes 10. The Genetic Code 11. Protein Synthesis Apparatus Ribosome, Transfer RNA and Aminoacyl-tRNA Synthetases Ribosome 12. Expression of Gene . Protein Synthesis 1. Transcription in Prokaryotes and Eukaryotes 13. Expression of Gene: Protein Synthesis: 2. RNA Processing (RNA Splicing, RNA Editing and Ribozymes) Polyadenylation of mRNA in Prokaryotes Addition of Cap (m7G) and Tail (Poly A) for mRNA in Eukaryotes 14. Expression of Gene: Protein Synthesis: 3. Synthesis and Transport of Proteins (Prokaryotes and Eukaryotes) Formation of Aminoacyl tRNA 15. Regulation of Gene Expression: 1. Operon Circuits in Bacteria and Other Prokaryotes 16. Regulation of Gene Expression . 2. Circuits for Lytic Cycle and Lysogeny in Bacteriophages 17. Regulation of Gene Expression 3. A Variety of Mechanisms in Eukaryotes (Including Cell Receptors and Cell Signalling) PART II Genetic Engineering 18. Recombinant DNA and Gene Cloning 1. Cloning and Expression Vectors 19. Recombinant DNA and Gene Cloning 2. Chimeric DNA, Molecular Probes and Gene Libraries 20. Polymerase Chain Reaction (PCR) and Gene Amplification 21. Isolation, Sequencing and Synthesis of Genes 22. Proteins: Separation, Purification and Identification 23. Immunotechnology 1. B-Cells, Antibodies, Interferons and Vaccines 24. Immunotechnology 2. T-Cell Receptors and MHC Restriction 25. Immunotechnology 3. Hybridoma and Monoclonal Antibodies (mAbs) Hybridoma Technology and the Production of Monoclonal Antibodies 26. Transfection Methods and Transgenic Animals 27. Animal and Human Genomics: Molecular Maps and Genome Sequences Molecular Markers 28. Biotechnology in Medicine: l.Vaccines, Diagnostics and Forensics Animal and Human Health Care 29. Biotechnology in Medicine 2. Gene Therapy Human Diseases Targeted for Gene Therapy Vectors and Other Delivery Systems for Gene Therapy 30. Biotechnology in Medicine: 3. Pharmacogenetics / Pharmacogenomics and Personalized Medicine Phannacogenetics and Personalized 31. Plant Cell and Tissue Culture' Production and Uses of Haploids 32. Gene Transfer Methods in Plants 33. Transgenic Plants . Genetically Modified (GM) Crops and Floricultural Plants 34. Plant Genomics: 35. Genetically Engineered Microbes (GEMs) and Microbial Genomics References

Biochemistry: Fundamental And Application - S. S. Purohit 2009-07-01

Pharmaceutical Biotechnology - Daan J. A. Crommelin 2002-11-14

The field of pharmaceutical biotechnology is evolving rapidly. A whole new arsenal of protein pharmaceuticals is being produced by recombinant techniques for cancer, viral infections, cardiovascular and hereditary disorders, and other diseases. In addition, scientists are confronted with new technologies such as polymerase chain reactions, combinatorial chemistry and gene therapy. This introductory textbook provides extensive coverage of both the basic science and the applications of biotechnology-produced pharmaceuticals, with special emphasis on their clinical use. Pharmaceutical Biotechnology serves as a complete one-stop source for undergraduate pharmacists, and it is valuable for researchers and professionals in the pharmaceutical industry as well.

National Library of Medicine Current Catalog - National Library of Medicine (U.S.) 1991

The Indian Journal of Agricultural Sciences - 2000

Indian Book Chronicle - 1993

Indian Farming - 1999

Microbes:redefined Personality - S.R. Joshi 2007

Biotechnology: Fundamentals And Applications (3rd Edition) - S. S. Purohit 2005

Biotechnology: Fundamentals and Applications (4rd Ed.) - S. S. Purohit 2009-01-01

Current Catalog - National Library of Medicine (U.S.)
First multi-year cumulation covers six years: 1965-70.

Biotechnology - S. C. Rastogi 2007
Forming a wide and comprehensive coverage of the fundamental aspects of biotechnology, Biotechnology: Principles and Applications serves as the perfect guide for students in understanding the principles and applied aspects of the field.

Introduction to Plant Tissue Culture - M. K. Razdan 2003
Introduction and techniques; Introductory history; Laboratory organisation; Media; Aseptic manipulation; Basic aspects; Cell culture; Cellular totipotency; Somatic embryogenesis; Applications to plant breeding; Haploid prodution; Triploid production; In vitro pollination and fertilization; Zygotic embryo culture; Somatic hybridisation and cybridisation; Genetic transformation; Somaclonal and gametoclonal variant selection; Application to horticulture and forestry; Production of disease-free plants; clonal propagation; General applications; Industrial applications: secondary metabolite production; Germplasm conservation.

Plant Biotechnology and Genetics - C. Neal Stewart, Jr. 2012-12-13
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.