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Self Assessment and Review of Biochemistry
Textbook of Biochemistry for Dental Students
Lehninger Principles of Biochemistry
Textbook of Pharmaceutical Biotechnology
Environmental and Agricultural Microbiology
Proteins and amino acids
Yeast Biotechnology: Diversity and Applications

RODGERS ALLIE

Pharmaceutical Biotechnology New Age International
This book addresses microalgae, which represent a very promising biomass resource for wastewater treatment and producing biofuels. Accordingly, microalgae are also an expanding sector in biofuels and wastewater treatment, as can be seen in several high-profile start-ups from around the globe, including Solix Biofuels, Craig Venter's Synthetic Genomics, PetroSun, Chevron Corporation, ENN Group etc. In addition, a number of recent studies and patent applications have confirmed the value of modern microalgae for biofuels production and wastewater treatment systems. However, substantial inconsistencies have been observed in terms of system boundaries, scope, the cultivation of microalgae and oil extraction systems, production costs and economic viability, cost-lowering components, etc. Moreover, the downstream technologies and core principles involved in liquid fuel extraction from microalgae cells are still in their early stages, and not always adequate for industrial production. Accordingly, multilateral co-operation between universities, research institutes, governments, stakeholders and researchers is called for in order to make microalgae biofuels economical. Responding to this challenge, the book begins with a general introduction to microalgae and the algae industry, and subsequently discusses all major aspects of microalgal biotechnology, from strain isolation and robust strain development, to biofuel development, refinement and wastewater treatment.
Biochemistry Elsevier Health Sciences
Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom, introducing exciting new developments while communicating basic principles of biochemistry.
Pharmaceutical Biotechnology Elsevier Health Sciences
The seventh edition of this book is a comprehensive guide to biochemistry for medical students. Divided into six sections, the book examines in depth topics relating to chemical basics of life, metabolism, clinical and applied biochemistry, nutrition, molecular biology and hormones. New chapters have been added to this edition and each chapter includes clinical case studies to help students understand clinical relevance. A 274-page free booklet of revision exercises (9789350906378), providing essay questions, short notes, viva voce and multiple choice questions is included to help students in their exam preparation. Free online access to additional clinical cases, key concepts and an image bank is also provided. Key points Fully updated, new edition providing students with comprehensive guide to biochemistry Includes a free booklet of revision exercises and free online access Highly illustrated with nearly 1500 figures, images, tables and illustrations Previous edition published in 2010
Textbook of Biochemistry for Medical Students S. Chand Publishing
Microbial biotechnology is an important area that promotes advanced research into using microbes for value-added products, human nutrition, and the overall wellbeing of society. This book presents the latest information on the use of microbes for sustainable development, and highlights state-of-the-art biotechnological techniques used to harness microbial biotechnological traits on a commercial scale. Gathering contributions from authoritative researchers in the field, it addresses

recent advances in microbial biotechnological approaches that offer sustainable options for future generations. Exploring a broad range of microbial products and their uses, the book specifically places emphasis on the application of microorganisms in healthcare, the environment and industry. It also discusses various compound classes derived from microbial metabolites. Pursuing a holistic approach to recent advances in the utilization of various microbes as biotechnological tools, the book also covers traditional uses, and explores emerging strategies to harness their full potential. Accordingly, it offers a valuable resource for researchers and graduate students alike.
Biotechnology Wiley-Blackwell
This book is a unique overview of insights on the genetic basis of anti-diabetic activity, chemistry, physiology, biotechnology, mode-of-action, as well as cellular mechanisms of anti-diabetic secondary metabolites from medicinal plants. The World Health Organization estimated that 80% of the populations of developing countries rely on traditional medicines, mostly plant drugs, for their primary health care needs. There is an increasing demand for medicinal plants having anti-diabetic potential in both developing and developed countries. The expanding trade in medicinal plants has serious implications on the survival of several plant species, with many under threat to become extinct. This book describes various approaches to conserve these genetic resources. It discusses the whole spectrum of biotechnological tools from micro-propagation for large-scale multiplication, cell-culture techniques to the biosynthesis and enhancement of pharmaceutical compounds in the plants. It also discusses the genetic transformation as well as short- to long-term conservation of plant genetic resources via synthetic seed production and cryopreservation, respectively. The book is enriched with expert contributions from across the globe. This reference book is useful for researchers in the pharmaceutical and biotechnological industries, medicinal chemists, biochemists, botanists, molecular biologists, academicians, students as well as diabetic patients, traditional medicine practitioners, scientists in medicinal and aromatic plants, Ayurveda, Siddha, Unani and other traditional medical practitioners.
Microalgae Biotechnology for Development of Biofuel and Wastewater Treatment Springer Science & Business Media
Essentials of Biotechnology is meant for undergraduate biotechnology and life sciences students. The book discusses the basics of interdisciplinary subjects which is required for developing the conceptual understanding in biotechnology and to acquire research attitude. It elaborates fundamental concepts which are absolutely necessary for budding biotechnologists. It is an attempt to cover broad spectrum of biological dimensions with biotechnological exploration. Section-I elaborates theoretical aspects of basic biology, biochemistry, microbiology, molecular biology with correlation to modern applied aspects.Section-II is grounded in the experimental approach. Each experiment is described with sufficient details. The figures and tables provided with experiments will be helpful to the students and the instructor for better understanding of the scientific principles and skillful execution of the experiments.
Biochemistry Addison Wesley Longman
Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, focusing on industrial biotechnology and bioengineering practices for the production of industrial products, such as enzymes, organic acids, biopolymers, and biosurfactants, and the processes for isolating and purifying them from a production medium. During the last few years, the tools of molecular biology and genetic and metabolic engineering have rendered tremendous improvements in the production of industrial products by fermentation. Structured by industrial product classifications, this book provides an overview of the current practice, status, and future potential for the production of these agents, along with reviews of the industrial scenario relating to their production. - Provides information on industrial bioprocesses for the production of microbial products by fermentation - Includes separation and purification processes of fermentation products - Presents economic and feasibility assessments of the various processes and their scaling up - Links biotechnology and bioengineering for industrial process development
MCQs in Biochemistry S. Chand Publishing
The second edition of Comprehensive Biotechnology, Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up-to-date and essential entries on the principles and practice of biotechnology. The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields. With two volumes covering basic fundamentals, and four volumes of applications, from environmental biotechnology and safety to medical biotechnology and healthcare, this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format. It is a multi-authored work, written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence. All six volumes are published at the same time, not as a series; this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas. Hyperlinks provide sources of extensive additional related information; material authored and edited by world-renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field
Industrial Biotechnology Elsevier Health Sciences
In its examination of biochemistry, this second edition of the text includes expositions of major research techniques through the Tools of Biochemistry, and a presentation of concepts through description of the experimental bases for those concepts.
A Textbook of Biotechnology Elsevier Health Sciences
This textbook 'Biochemistry' has become one of the most preferred text books (in India and many other countries) for the students as well as teachers in medical, biological and other allied sciences. The book has undergone three editions, several reprints, and revised reprints in a span of 13 years. There are many biochemistry textbooks in the market. Some of them are purely basic while others are applied, and there are very few books which cover both these aspects together. For this reason, the students learning biochemistry in their undergraduate courses have to depend on multiple books to acquire a sound knowledge of the subject. This book, 'Biochemistry' is unique with a simultaneous and equal emphasis on basic and applied aspects of biochemistry. This textbook offers an integration of medical and pure sciences, comprehensively written to meet the curriculum requirements of undergraduate courses in medical, dental, pharmacy, life-sciences and other categories (agriculture, veterinary, etc.). This book is designed to develop in students a sustained interest and enthusiasm to learn and develop the concepts in biochemistry in a logical and stepwise manner. It incorporates a variety of pedagogic aids, besides colour illustrations to help the students understand the subject quickly and to the maximum. The summary and biomedical/clinical concepts are intended for a rapid absorption and assimilation of the facts and concepts in biochemistry. The self-assessment exercises will stimulate the students to think rather than merely learn the subject. In addition, these exercises (essays, short notes, fill in the blanks, multiple choice questions) set at different difficulty levels, will cater to the needs of all the categories of learners. New to This Edition - The book offers an integration of medical and pure sciences, and is comprehensively written, revised and updated to meet the curriculum requirements of Medical, Pharmacy, Dental, Veterinary, Biotechnology, Agricultural Sciences, Life Sciences, and others studying Biochemistry as one of the subjects. - It is the first text book on Biochemistry in English with multi-colour illustrations by an author from Asia. The use of multicolours is for a clearer understanding of the complicated biochemical reactions. - It is written in a lucid style with the subject being presented as an engaging story growing from elementary information to the most recent advances, and with theoretical discussions being supplemented with illustrations, flowcharts, and tables for easy understanding of Biochemistry. - It has each chapter beginning with a four-line verse followed by the text, biomedical concepts, a summary, and self-assessment exercises. The lively illustrations and text with appropriate headings and sub-headings in bold type faces facilitate reading path clarity and quick recall. - It provides the most recent and essential information on Molecular Biology and Biotechnology, Diabetes, Cancer, Free Radicals, Free radicals and Antioxidants, Prostaglandins, etc. - It describes a wide variety of case studies and biochemical correlations and several newer biomedical aspects- Metabolic syndrome, Therapeutic diets, Atkins diet, Trans fatty acids, Epigenetics, Nutrigenomics, Recombinant ribozymes, Membrane transport disorders, Pleural fluid etc. - It contains the basics (Bioorganic and Biophysical Chemistry, Tools of Biochemistry, Immunology, and Genetics) for beginners to learn easily Biochemistry, origins of biochemical words, confusables in Biochemistry, principles of Practical Biochemistry, and Clinical Biochemistry Laboratory.
Organ function tests Springer Science & Business Media
Current Developments in Biotechnology and Bioengineering: Bioprocesses, Bioreactors and Controls provides extensive coverage of new developments, state-of-the-art technologies, and potential future trends, reviewing industrial biotechnology and bioengineering practices that facilitate and enhance the transition of processes from lab to plant scale, which is becoming increasingly important as such transitions continue to grow in frequency. Focusing on industrial bioprocesses, bioreactors for bioprocesses, and controls for bioprocesses, this title reviews industrial practice to identify bottlenecks and propose solutions, highlighting that the optimal control of a bioprocess involves not only maximization of product yield, but also taking into account parameters such as quality assurance and environmental aspects. - Describes industrial bioprocesses based on the reaction media - Lists the type of bioreactors used for a specific bioprocess/application - Outlines the principles of control systems in various bioprocesses
Current Developments in Biotechnology and Bioengineering Elsevier
Environmental and Agricultural Microbiology Uniquely reveals the state-of-the-art microbial research/advances in the environment and agriculture fields Environmental and Agricultural Microbiology: Applications for Sustainability is divided into two parts which embody chapters on sustenance and life cycles of microorganisms in various environmental conditions, their dispersal, interactions with other inhabited communities, metabolite production, and reclamation. Though books pertaining to soil & agricultural microbiology/environmental biotechnology are available, there is a dearth of comprehensive literature on the behavior of microorganisms in the environmental and agricultural realm. Part 1 includes bioremediation of agrochemicals by microalgae, detoxification of chromium and other heavy metals by microbial biofilm, microbial biopolymer technology including polyhydroxyalkanoates (PHAs) and polyhydroxybutyrates (PHB), their production, degradability behaviors, and applications. Biosurfactants production and their commercial importance are also systematically represented in this part. Part 2 having 9 chapters, facilitates imperative ideas on approaches for sustainable agriculture through functional soil microbes, next-generation crop improvement strategies via rhizosphere microbiome, production and implementation of liquid biofertilizers, mitigation of methane from livestock, chitinases from microbes, extremozymes, an enzyme from extremophilic microorganism and their relevance in current biotechnology, lithobiontic communities, and their environmental importance, have all been comprehensively elaborated. In the era of sustainable energy production, biofuel and other bioenergy products play a key role, and their production from microbial sources are frontiers for researchers. The final chapter unveils the importance of microbes and their consortia for management of solid waste in amalgamation with biotechnology Audience The book will be read by environmental microbiologists, biotechnologists, chemical and agricultural engineers.
Biotechnology of Bioactive Compounds John Wiley & Sons
Antimicrobial Resistance in Wastewater and Human Health provides updated knowledge on the human health risks associated with antimicrobial resistance of wastewater. The book's chapters address commonly found bacteria and drug resistant genes in wastewater, treatment plant problems and challenges, human health hazards, and gaps in current literature. Written for researchers, scientists, graduate and PhD students in the areas of Public Health, Biotechnology, Chemical Engineering, and Environmental Science, this will be an ideal resource. - Examines AMR in wastewater and related risks to human health - Provides the reader with expert analysis across a variety of scientific disciplines - Presents a comprehensive analysis of AMR in wastewater, risks to human health and the way forward
Advanced Biotechnology I. K. International Pvt Ltd
This review of recent developments in our understanding of the role of microbes in sustainable agriculture and biotechnology covers a research area with enormous untapped potential. Chemical fertilizers, pesticides, herbicides and other agricultural inputs derived from fossil fuels have increased agricultural production, yet growing awareness and concern over their adverse effects on soil productivity and environmental quality cannot be ignored. The high cost of these products, the difficulties of meeting demand for them, and their harmful environmental legacy have encouraged scientists to develop alternative strategies to raise productivity, with microbes playing a central role in these efforts. One application is the use of soil microbes as bioinoculants for supplying nutrients and/or stimulating plant growth. Some rhizospheric microbes are known to synthesize plant growth-promoters, siderophores and antibiotics, as well as aiding phosphorous uptake. The last 40 years have seen rapid strides made in our appreciation of the diversity of environmental microbes and their possible benefits to sustainable agriculture and production. The advent of powerful new methodologies in microbial genetics, molecular biology and biotechnology has only quickened the pace of developments. The vital part played by microbes in sustaining our

planet’s ecosystems only adds urgency to this enquiry. Culture-dependent microbes already contribute much to human life, yet the latent potential of vast numbers of uncultured—and thus untouched—microbes, is enormous. Culture-independent metagenomic approaches employed in a variety of natural habitats have alerted us to the sheer diversity of these microbes, and resulted in the characterization of novel genes and gene products. Several new antibiotics and biocatalysts have been discovered among environmental genomes and some products have already been commercialized. Meanwhile, dozens of industrial products currently formulated in large quantities from petrochemicals, such as ethanol, butanol, organic acids, and amino acids, are equally obtainable through microbial fermentation. Edited by a trio of recognized authorities on the subject, this survey of a fast-moving field—with so many benefits within reach—will be required reading for all those investigating ways to harness the power of microorganisms in making both agriculture and biotechnology more sustainable.

A Textbook of Molecular Biotechnology Elsevier Health Sciences

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

Biochemistry Springer

Tools of biochemistry Tools of biochemistry

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Aromatic Rices Macmillan

This book presents and summarizes the new thoughts, new methods and new achievements that have emerged in the biotechnology of lignocellulose in recent years. It proposes new concepts including the primary refining, fractionation, multi-level utilization and selective structural separation of lignocellulose, etc. By approaching lignocellulose as a multi-level resource, biotechnology could have a significant effect on ecological agriculture, bio-energy, the chemical and paper making industries, etc., ultimately establishing distinctive eco-industrial parks for lignocellulose. Additionally, this book provides systematic research methods for the biotechnology of lignocellulose including investigation methods for the primary refining of lignocellulose, for microbial degradation and enzymatic hydrolysis, for cellulose fermentation and for lignocellulose conversion processes. It offers an excellent reference work and guide for scientists engaging in research on lignocellulose. Dr. Hongzhang Chen is a Professor at the Institute of Process Engineering of the Chinese Academy of Sciences, Beijing, China.

Biotechnology of Anti-diabetic Medicinal Plants Elsevier Health Sciences

Organ function tests Organ function tests

Comprehensive Biotechnology John Wiley & Sons

Biochemistry: The Chemical Reactions of Living Cells is a well-integrated, up-to-date reference for basic chemistry and underlying biological phenomena. Biochemistry is a comprehensive account of the chemical basis of life, describing the amazingly complex structures of the compounds that make up cells, the forces that hold them together, and the chemical reactions that allow for recognition, signaling, and movement. This book contains information on the human body, its genome, and the action of muscles, eyes, and the brain. * Thousands of literature references provide introduction to current research as well as historical background * Contains twice the number of chapters of the first edition * Each chapter contains boxes of information on topics of general interest

Microbial Biotechnology: Basic Research and Applications Springer Nature

Biotechnology is now one of the major growth areas in science and engineering and within this broad discipline enzyme technology is one of the areas earmarked for special and significant developments. This publication is the second edition of Microbial Enzymes and Biotechnol ogy which was originally published in 1983. In this edition the editors have attempted to bring together accounts (by the relevant experts) of the current status of the major areas of enzyme technology and specifically those areas of actual and/or potential commercial importance. Although the use of microbial enzymes may not have expanded at quite the rate expected a decade ago, there is nevertheless intense activity and considerable interest in the whole area of enzyme technology. Microbial enzymes have been used in industry for many centuries although it is only comparatively recently that detailed knowledge relating to their nature, properties and function has become more evident. Developments in the 1960s gave a major thrust to the use of microbial enzymes in industry. The commercial success of alkaline proteases and amyloglucosidases formed a bed-rock for subsequent research and development in the area.