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KEY=MICROBIOLOGY - JAZLYN REBEKAH

Nester's Microbiology

A Human Perspective

Textbook for Environmental Microbiology.

Microbiology

A Human Perspective

WCB/McGraw-Hill This text utilizes the organ system approach and emphasizes the relevance of microbiological principles to human health, as well as providing a historical background. There are chapter-specific study cards included that feature key diseases and microorganisms.

Microbiology

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

Loose Leaf for Nester's Microbiology: A Human Perspective

McGraw-Hill Education Perfect for the non-major/allied health student (and also appropriate for mixed majors courses), this text provides a rock solid foundation in microbiology. It has a concise and readable style, covers the most current concepts, and gives students the knowledge and mastery necessary to understand advances of the future. By carefully and clearly explaining the fundamental concepts, using a body systems approach in the coverage of disease, and offering vivid and appealing instructional art, Microbiology: A Human Perspective draws students back to their book again and again!

Microbiology Experiments

A Health Science Perspective

McGraw-Hill Science, Engineering & Mathematics For allied health students who need to learn the basic principles of laboratory microbiology and how to apply these principles in a clinical context. Topics include: pure culture and aseptic tecnique; aerobic and anaerobic growth; bacterial conjugation; and gene regulation.

Prescott's Microbiology

McGraw-Hill Science Engineering This edition of 'Microbiology' provides a balanced, comprehensive introduction to all major areas of microbiology. The text is appropriate for students preparing for careers in medicine, dentistry, nursing and allied health, as well as research, teaching and industry.

Jawetz Melnick & Adelbergs Medical Microbiology 27 E

McGraw Hill Professional Understand the clinically important aspects of microbiology with this full-color review Includes more than 20 case studies The twenty-seventh edition of Jawetz, Melnick & Adelberg’s Medical Microbiology delivers a concise, up-to-date overview of the roles microorganisms play in human health and illness. Linking fundamental principles with the diagnosis and treatment of microbial infections, this classic text has been updated throughout to reflect the tremendous expansion of medical knowledge afforded by molecular mechanisms, advances in our understanding of microbial pathogenesis, and the discovery of novel pathogens. Along with brief descriptions of each organism, you will find vital perspectives on pathogenesis, diagnostic laboratory tests, clinical findings, treatment, and epidemiology. The book also includes an entire chapter of case studies that focuses on differential diagnosis and management of microbial infections. Here’s why Jawetz, Melnick & Adelberg’s Medical Microbiology is essential for USMLE review: 650+ USMLE-style review questions 300+ informative tables and illustrations 23 case studies to sharpen you differential diagnosis and management skills An easy-to-access list of medically important microorganisms Coverage that reflects the latest techniques in laboratory and diagnostic technologies Full-color images and micrographs Chapter-ending summaries Chapter concept checks Jawetz, Melnick & Adelberg’s Medical Microbiology introduces you to basic clinical microbiology through the fields of bacteriology, virology, mycology, and parasitology, giving you a thorough yet understandable review of the discipline.

Cosmetic Microbiology

A Practical Approach

CRC Press This updated edition provides research scientists, microbiologists, process engineers, and plant managers with an authoritative resource on basic microbiology, manufacturing hygiene, and product preservation. It offers a contemporary global perspective on the dynamics affecting the industry, including concerns about preservatives, natural ingredients, small manufacturing, resistant microbes, and susceptible populations. Professional researchers in the cosmetic as well as the pharmaceutical industry will find this an indispensable textbook for in-house training that improves the delivery of information essential to the development and manufacturing of safe high-quality products

Novel Biodegradable Microbial Polymers

Springer Science & Business Media The NATO Advanced Research Workshop from which this book derives was conceived during Biotec-88, the Second Spanish Conference on Biotechnology, held at Barcelona in June 1988. The President of the Conference, Dr. Ricardo Guerrero, had arranged sessions on bacterial polymers which included lectures by five invited participants who, together with Dr. Guerrero, became the Organizing Committee for a projected meeting that would focus attention upon the increasing international importance of novel biodegradable polymers. The proposal found favour with the NATO Science Committee and, with Dr. R. Clinton Fuller and Dr. Robert W. Lenz as the co-Directors, Dr. Edwin A. Dawes as the Proceedings Editor, and Dr. Hans G. Schlegel, Dr. Alexander J.B. Zehnder and Dr. Ricardo Guerrero as members of the Organizing Committee, the meeting quickly took shape. To Dr. Guerrero we owe the happy choice of Sitges for the venue, a pleasant coastal resort 36 kilometres from Barcelona, which proved ideal. The sessions were held at the Palau de Maricel in appropriately impressive surroundings, and invaluable local support was provided by Mr. Jordi Mas-Castella and by Ms. Merce Piqueras. Much of the preparatory work fell upon the broad shoulders of Mr. Edward Knee, whose efforts are deeply appreciated. The Organizing Committee hopes that this Workshop will prove to be the first of a series which will aim to keep abreast of a rapidly expanding and exciting area of research that is highly relevant to environmental and industrial interests.

Plant Disease Management

Principles and Practices

CRC Press This book attempts to provide to provide concise, critical, synthetic and up-to-date coverage of different aspects of plant disease management. The first eleven chapters are devoted to principles and related aspects and the remining seven to management practices based on them. The book attempts to capture some of the images of such rapidly expanding fields as host-parasite recognition and biotechnology even at the risk of making the subject a bit conceptual. This book is intended to serve as a text for advanced undergraduate and graduate students of plant pathology and related disciplines and as a reference source for teachers, researchers, students, and technologists.

Introduction to Environmental Geotechnology, Second Edition

CRC Press This new edition of a bestseller presents updated technology advances that have occurred since publication of the first edition. It increases the utility and scope of the content through numerous case studies and examples and an entirely new set of problems and solutions. The book also has an accompanying instructor's guide and presents rubrics by which instructors can increase student learning and evaluate student outcomes, chapter by chapter. The book focuses on the increasing importance of water resources and energy in the broader context of environmental sustainability. It’s interdisciplinary coverage includes soil science, physical chemistry, mineralogy, geology, ground pollution, and more.

Microbiology

Krishna Prakashan Media Introduction to microbiology; Characteristics of bacteria; Microorganisms other than bacteria; Control of microorganisms; Microorganisms and disease; Applied microbiology.

Ehrlich's Geomicrobiology

CRC Press Advances in geomicrobiology have progressed at an accelerated pace in recent years. Ehrlich's Geomicrobiology, Sixth Edition surveys various aspects of the field, including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels. Unlike the fifth edition, the sixth includes many expert contributors

Red Beet Biotechnology

Food and Pharmaceutical Applications

Springer Science & Business Media Biotechnology is a rapidly growing research area which is immediately translated into industrial applications. Although over 1000 research papers have emerged on various aspects of red beet and the chemistry of betalaines pigments, surprisingly no comprehensive book is available. The proposed Red Beet book encompasses a scholarly compilation of recent biotechnological research developments made in basic science, biochemistry of the chief components, technological developments in augmenting and recovery of such useful compounds and value-added products with discussions on future perspectives. The book will provide detailed information of the chemistry of the main components of normal and genetically engineered beetroot.

Introduction to Marine Biology

Cengage Learning INTRODUCTION TO MARINE BIOLOGY sparks curiosity about the marine world and provides an understanding of the process of science. Taking an ecological approach and intended for non-science majors, the text provides succinct coverage of the content while the photos and art clearly illustrate key concepts. Studying is made easy with phonetic pronunciations, a running glossary of key terms, end-of-chapter questions, and suggestions for further reading at the end of each chapter. The open look and feel of INTRODUCTION TO MARINE BIOLOGY and the enhanced art program convey the beauty and awe of life in the ocean. Twenty spectacular photos open the chapters, piquing the motivation and attention of students, and over 60 photos and pieces of art are new or redesigned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Medical Microbiology & Immunology

McGraw Hill Professional The most concise, comprehensive, and up-to-date medical microbiology & immunology review! Gives students the high-yield information they need to prepare for the USMLE Step 1 and course exams. Completely updated throughout, the new edition covers developments in HIV, hepatitis, smallpox, SARS, and more. Features case discussions, USMLE-style questions, and a USMLE-style practice exam.

Agrobacterium: From Biology to Biotechnology

Springer Science & Business Media Agrobacterium is a plant pathogen which causes the “crown-gall” disease, a neoplastic growth that results from the transfer of a well-defined DNA segment (“transferred DNA”, or “T-DNA”) from the bacterial Ti (tumor-inducing) plasmid to the host cell, its integration into the host genome, and the expression of oncogenes contained on the T-DNA. The molecular machinery, needed for T-DNA generation and transport into the host cell and encoded by a series of chromosomal (chv) and Ti-plasmid virulence (vir) genes, has been the subject of numerous studies over the past several decades. Today, Agrobacterium is the tool of choice for plant genetic engineering with an ever expanding host range that includes many commercially important crops, flowers, and tree species. Furthermore, its recent application for the genetic transformation of non-plant species, from yeast to cultivated mushrooms and even to human cells, promises this bacterium a unique place in the future of biotechnological applications. The book is a comprehensive volume describing Agrobacterium's biology, interactions with host species, and uses for genetic engineering.

Jawetz, Melnick & Adelberg's Medical Microbiology

Nutritional Value of Amaranth

BoD – Books on Demand Pseudocereals, belonging to the genus Amaranthus, have been cultivated for their grains for 8,000 years or more. The grain was a staple food of the Aztecs and was also considered an integral part of Aztec religious ceremonies. The book primarily focuses on the nutrient properties of amaranth and expresses its viewpoint in considering this crop as a remedy for many nutrient deficiencies and curbing food insecurity. The functional properties of the grain are immense and it is clear that the crop would be a valuable agricultural product around the world.

Phytopathogenic Bacteria and Plant Diseases

CRC Press The field of Phytobacteriology is rapidly advancing and changing, because of recent advances in genomics and molecular plant pathology, but also due to the global spread of bacterial plant diseases and the emergence of new bacterial diseases. So, there is a need to integrate understanding of bacterial taxonomy, genomics, and basic plant pathology that reflects state-of-the-art knowledge about plant-disease mechanisms. This book describes seventy specific bacterial plant diseases and presents up-to-date classification of plant pathogenic bacteria. It would be of great help for scientists and researchers in conducting research on ongoing projects or formulation of new research projects. The book will also serve as a text book for advanced undergraduate and postgraduate students of disciplines of Phytobacteriology and Plant Pathology. Contains latest and updated information of plant pathogenic bacteria till December 2018 Describes seventy specific bacterial diseases Presents classification of the bacteria and associated nomenclature based on Bergey’s Manual Systematic Bacteriology and International Journal of Systematic and Evolutionary Microbiology Discusses practical and thoroughly tested disease management strategies that would help in controlling enormous losses caused by these plant diseases Reviews role of Type I-VI secretion systems and peptide- or protein-containing toxins produced by bacterial plant pathogens Briefs about plants and plant products that act as carriers of human enteric bacterial pathogens, like emphasizing role of seed sprouts as a common vehicle in causing food-borne illness Dr B. S. Thind was ex-Professor-cum-Head, Department of Plant Pathology, Punjab Agricultural University Ludhiana, India. He has 34 years of experience in teaching, research, and transfer of technology. He has conducted research investigations on bacterial blight of rice, bacterial stalk rot of maize, bacterial blight of cowpea, bacterial leaf spot of green gram, bacterial leaf spot of chillies and bacterial soft rot of potatoes. He also acted as Principal Investigator of two ICAR-funded research schemes entitled, "Detection and control of phytopathogenic bacteria from cowpea and mungbean seeds from 1981 to 1986 and "Perpetuation, variability, and control of Xanthomonas oryzae pv. oryzae, the causal agent of bacterial blight of rice" from 1989 to 1993, and also of a DST funded research scheme "Biological control of bacterial blight, sheath blight, sheath rot, and brown leaf spot of rice" from 1999 to 2002. He also authored a manual entitled, "Plant Bacteriology" and a text book entitled, "Phytopathogenic Procaryotes and Plant Diseases" published by Scientific Publishers (India). He is Life member of Indian Phytopathological Society, Indian Society of Plant Pathologists, Indian Society of Mycology and Plant Pathology, and Indian Science Congress Association.

Laboratory Manual for Physical Examination and Health Assessment, Canadian Edition - E-Book

Elsevier Health Sciences Reinforce your understanding of essential examination and assessment skills! As both a comprehensive lab manual and a practical workbook the Laboratory Manual for Physical Examination and Health Assessment, 3rd Canadian Edition provides you with activities and resources to enhance hands-on learning. It features reading assignments corresponding to the text, terminology reviews, application activities, review questions, clinical learning objectives, regional write-up sheets, and narrative summary forms. In addition, this new version includes content on the Electronic Health Record to help you document your findings along with evidence-informed practice materials to further improve upon skills. Anatomy labelling exercises reinforces the identification of key anatomy and physiology. Reading assignments correspond to the text chapters to foster integration of the text and laboratory manual. A glossary promotes learning and understanding of essential terminology. Study guide activities reinforce the learning of key assessment information. Review questions—short answer, matching, multiple choice—provide learning activities in a variety of approaches. Clinical-learning objectives focus your study efforts on outcomes. Audio-visual assignments tie the visual video demonstrations of specific examination procedures to practical applications in the skills lab. Regional Write-up Sheets allow you to assess knowledge with forms used in the skills lab or clinical setting. Narrative Summary Forms reflect charting format used for narrative accounts of the history and physical examination findings. NEW! Coverage of the Electronic Health Record, charting, and narrative recording gives you examples of how to document assessment findings.

Microbiology: Laboratory Theory and Application

Morton Publishing Company Designed for major and non-major students taking an introductory level microbiology lab course. Whether your course caters to pre-health professional students, microbiology majors or pre-med students, everything they need for a thorough introduction to the subject of microbiology is right here.

Bioremediation and Sustainable Technologies for Cleaner Environment

Springer This book offers insights into the current focus and recent advances in bioremediation and green technology applications for waste minimization and pollution control. Increasing urbanization has an impact on the environment, agriculture and industry, exacerbating the pollution problem and creating an urgent need for sustainable and green eco-friendly remediation technology. Currently, there is heightened interest in environmental research, especially in the area of pollution remediation and waste conversion, and alternative, eco-friendly methods involving better usage of agricultural residues as economically viable substrates for environmental cleanup are still required. The book offers researchers and scholars inspiration, and suggests directions for specific waste management and pollution control. The research presented makes a valuable contribution toward a sustainable and eco-friendly societal environment.

Soilborne Microbial Plant Pathogens and Disease Management, Volume Two

Management of Crop Diseases

CRC Press Crop disease management strategies revolve around the principles of exclusion, eradication and immunization. Cultural practices are aimed at preventing or reducing the accumulation of pathogen population (inoculum). Development of cultivars with genetic resistance by transgressing resistance gene(s) through traditional breeding procedures or biotechnological techniques is the most effective and acceptable strategy, as it is environment-friendly and does not need any additional cost to the grower. Assessment of different grades of resistance of cultivars or genotypes to soilborne microbial pathogens has been possible by quantifying pathogen populations or their DNA contents in the test plants by applying biological and molecular methods. This second volume of a two-volume set focuses on the soilborne microbial plant pathogens and the diseases caused by them. The book provides information on ecology and epidemiology of soilborne microbial plant pathogens and various strategies applicable for effective management of diseases. Chapters cover exclusion and prevention strategies; improvement of host plant resistance; biological management; application of chemicals; and integration of these disease management strategies. Features Discusses various aspects of soilborne microbial plant pathogens to develop effective methods of managing diseases. Presents information on epidemiology and ecology of soilborne microbial plant pathogens. Facilitates the application of management strategies alone or in combination with others for effective suppression of disease development. Features information on application of biotic and abiotic biological control agents (BCAs) to suppress pathogen development either by directly acting on the pathogen(s) or indirectly by enhancing host resistance to the pathogens. Employs biotic and abiotic biocontrol agents either to replace or reduce the use of chemicals is an achievable approach for managing the soilborne microbial pathogens.

Plant Tissue Culture, Development, and Biotechnology

CRC Press Under the vast umbrella of Plant Sciences resides a plethora of highly specialized fields. Botanists, agronomists, horticulturists, geneticists, and physiologists each employ a different approach to the study of plants and each for a different end goal. Yet all will find themselves in the laboratory engaging in what can broadly be termed biotechnol

Emerging Technologies for Food Processing

Elsevier The second edition of Emerging Technologies in Food Processing presents essential, authoritative, and complete literature and research data from the past ten years. It is a complete resource offering the latest technological innovations in food processing today, and includes vital information in research and development for the food processing industry. It covers the latest advances in non-thermal processing including high pressure, pulsed electric fields, radiofrequency, high intensity pulsed light, ultrasound, irradiation, and addresses the newest hurdles in technology where extensive research has been carried out. Provides an extensive list of research sources to further research development Presents current and thorough research results and critical reviews Includes the most recent technologies used for shelf life extension, bioprocessing simulation and optimization

Biological Control of Plant Diseases

Progress and Challenges for the Future

Springer Science & Business Media The papers contained in this book were presented at a NATO Advanced Research Workshop (ARW) held at Cape Sounion, Athens, Greece, 19-24 May, 1991. The twenty-eight more comprehensive papers represent the key subjects of the ARW covered by invited speakers. The thirty-four short papers pre sented in a research format are contributions of those invited to participate in the ARW. There was a total of 70 participants from 21 countries. The objectives of the ARW were as follows: to review current knowledge of biological control of plant diseases and plant parasitic nematodes, with emphasis on mechanisms at the molecular, cellular, organismal, and ecosystem level; to examine and expand on current concepts and synthesize new concepts; to identify and prioritize limitations in the use of biological control for plant diseases and nematodes and the scientific research needed to overcome these limitations; and to develop strategies for biological control through management of resident agents or introduction of natural or modified agents.

National Kidney Foundation Primer on Kidney Diseases E-Book

Elsevier Health Sciences The National Kidney Foundation Primer on Kidney Diseases is your ideal companion in clinical nephrology! From anatomy, histology, and physiology, through the diagnosis and management of kidney disease, fluid and electrolyte disorders, hypertension, dialysis, and kidney transplantation, this trusted manual from Elsevier and the National Kidney Foundation provides an accessible, efficient overview of kidney diseases that’s perfect for residency, fellowship, clinical practice, and board review. Incorporate the latest NKF Kidney/ Outcome Quality Initiative guidelines on chronic kidney disease staging and management. Review the basics with a current and practical review of the anatomy, physiology, pathophysiology, diagnosis, and management of kidney disease, fluid and electrolyte disorders, hypertension, dialysis, and renal transplantation.

Microbial Culture

Garland Science An introductory text covering all the major groups of microbes with an emphasis on bacteria and fungi.

Staphylococci in Human Disease

John Wiley & Sons Staphylococci remain the most important cause of hospital-acquiredinfections in the U.S. and MRSA has become the most common cause ofskin and soft tissue infection in many parts of the world. There is now a much greater understanding of the physiology andevolution of the staphylococci and this new edition reflects therapid advancements in knowledge about this pathogen and provides acomprehensive review from both clinical and basic scienceperspectives. The first section addresses the basic biology of thestaphylococci, their molecular genetics, host defenses and hostevasion, virulence determinants, mechanisms of antibioticresistance, and laboratory techniques. The second section dealswith epidemiology, and the third section provides an overview ofthe varied clinical manifestations of human staphylococcalinfections. The fourth section covers prevention and treatment ofthese often life-threatening infections. Written by experts from around the globe, this book is essentialreading for all clinicians and basic scientists studying thestaphylococci.

Current Research Topics in Applied Microbiology and Microbial Biotechnology

Microbial Aggregation

CRC Press This text covers in detail bacteria and yeasts, including an overall perspective of microbial aggregation as fundamental form and function, which is presented here to include systems still to be treated in detail.

Electricity and Magnetism

S. Chand Publishing This book entitled Electricity & Magnetism covers the syllabi of B.Sc.(Pass & Honours)and Engineering students of various Universities in India,and is written purely in S.I. Units(rationalised MKS system of units)with a complete vector treatment.The mathematical description of the book is based on the methods of vector analysis.Vector analysis provides an efficient short-hand for writing physics and the same time makes it possible to visualise the physical meaning of concepts and laws distinctly and exactly.hance,the vector treatment becomes necessary.

Mortgages For Dummies

John Wiley & Sons Need a mortgage but worried about the market? In Mortgages For Dummies, 3rd Edition, bestselling authors Eric Tyson and Ray Brown give you proven solutions for obtaining a mortgage, whether you want to buy your first home, refinance, or tap into your equity. You get the latest on sub-prime and adjustable-rate mortgages, finding the best lender, avoiding fiscal pitfalls and foreclosure, and much, much, more! This easy-to-understand, objective, and jargon-free guide helps you fine-tune your finances, figure out what you can afford, and improve your credit score before you go mortgage shopping. You'll get familiar with the advantages and disadvantages of fixed- and adjustable-rate mortgages, 15- and 30-year loans, and conforming and jumbo packages. You also get help finding and working with reputable professionals, comparing programs, and securing terms you can live with. Discover how to: Match your mortgage to your financial goals Qualify for a mortgage even when money is tight Find the right loan for you Choose the best lender/broker Negotiate the best terms Calculate your costs and payments Understand and complete all paperwork Refinance an existing mortgage Understand and consider special situation loans Explore reverse mortgages and other options Decipher amortization tables and comparison worksheets Use the Internet wisely when mortgage shopping Now, more than ever, you need clear, reliable information that helps you get the mortgage you need at a price you can afford. You need Mortgages For Dummies, 3rd Edition!

Merriman's Assessment of the Lower Limb E-Book

Elsevier Health Sciences Merriman's Assessment of the Lower Limb has established itself through two editions as the benchmark text book of lower limb examination and assessment. The third edition preserves the lucidity, logical approach and comprehensive coverage of its predecessors but adds many exciting features, including online resources (videos and images), many new contributors, thorough updating of all chapters – many of which have been completely rewritten – and an entirely new chapter on functional assessment. The online resources (access via http://booksite.elsevier.com/9780080451077) provide extensive videos of assessment techniques and illustrations: practitioners with patients and models show how to assess all parts of the lower limb, and evaluate various conditions. Together with its companion volume Clinical Skills in Treating the Foot, the new third edition of Merriman's Assessment of the Lower Limb is a truly indispensable guide for podiatry students and practitioners, as well as trainee general practitioners, medical students working in rheumatology, diabetology and orthopaedics, sports therapists and sports medicine trainees. Online resources incorporating videos and illustrations: invaluable footage of assessment techniques downloadable full colour figures and extra radiological photographs Log on to http://booksite.elsevier.com/9780080451077 and follow the on-screen instructions. Many new contributors bringing fresh expertise and insights for today's student All chapters thoroughly rewritten and updated New chapter on functional assessment Case histories help put learning in context

Compendium of the Microbiological Spoilage of Foods and Beverages

Springer Science & Business Media The increased emphasis on food safety during the past two decades has decreased the emphasis on the loss of food through spoilage, particularly in developed co- tries where food is more abundant. In these countries spoilage is a commercial issue that affects the pro?t or loss of producers and manufacturers. In lesser developed countries spoilage continues to be a major concern. The amount of food lost to spoilage is not known. As will be evident in this text, stability and the type of spoilage are in?uenced by the inherent properties of the food and many other factors. During the Second World War a major effort was given to developing the te- nologies needed to ship foods to different regions of the world without spoilage. The food was essential to the military and to populations in countries that could not provide for themselves. Since then, progress has been made in improved product formulations, processing, packaging, and distribution systems. New products have continued to evolve, but for many new perishable foods product stability continues to be a limiting factor. Many new products have failed to reach the marketplace because of spoilage issues.

Dictionary of Microbiology and Molecular Biology

John Wiley & Sons Incorporated A unique, encyclopaedic reference work covering the whole field of pure and applied microbiology and microbial molecular biology. This latest edition contains a vast amount of new and updated material - often to research level, and well beyond the coverage of current textbooks - making the dictionary even more valuable to lecturers, students, researchers and others in the biosciences and medicine. Updates and extends current textbooks 18 000 entries, from concise definitions to review-length articles Extensive cross-referencing between topics Thousands of references from mainstream journals and other specialist sources Over 5000 taxa: algae, archaeans, bacteria, fungi, protozoa and viruses; prions A 30-page Appendix of detailed metabolic pathways A classic book with a lifetime's use! Reviews of the Second Edition ' very informative and extensive valuable reference tool.' FEBS Letters 'The material is well cross-referenced ... Students should find it particularly useful.' Society for General Microbiology ' the uniqueness is in its concise and clear description of terms extremely comprehensive and easy to use.' ARBA

Biocatalysis and Agricultural Biotechnology

Fundamentals Advances and Practices for a Greener Future

Apple Academic Press This new volume, Biocatalysis and Agricultural Biotechnology: Fundamentals, Advances, and Practices for a Greener Future, looks at the application of a variety of technologies, both fundamental and advanced, that are being used for crop improvement, metabolic engineering, and the development of transgenic plants. The science of agriculture is among the oldest and most intensely studied by mankind. Human intervention has led to manipulation of plant gene structure for the use of plants for the production of bioenergy, food, textiles, among other industrial uses. A sound knowledge of enzymology as well as the various biosynthetic pathways is required to further utilize microbes as sources to provide the desired products for industrial utility. This volume provides an overview of all these aspects along with an updated review of the major plant biotechnology procedures and techniques, their impact on novel agricultural development, and crop plant improvement. Also discussed are the use of "white biotechnology" and "metabolic engineering" as prerequisites for a sustainable development. The importance of patenting of plant products, world food safety, and the role of several imminent organizations is also discussed. The volume provides an holistic view that makes it a valuable source of information for researchers of agriculture and biotechnology as well as agricultural engineers, environmental biologists, environmental engineers, and environmentalists. Short exercises at the end of the chapters help to make the book suitable for course work in agriculture biotechnology, genetics, biology, biotechnology, and plant science.

Managing Illiquid Assets

Perspectives and Challenges

The perspectives of experts and practitioners are brought together on managing these high-risk, and frequently complex, financial assets.

Plant-Growth-Promoting Rhizobacteria (PGPR) and Medicinal Plants

Springer This book describes the various applications of microorganisms in improving plant growth, health and the efficiency of phytochemical production. The chapters trace topics such as the role of PGPRs in improving salt stress and heavy metal tolerance in plants; the prevention and control of plant diseases; boosting soil fertility and agriculture productivity; the induction of secondary metabolite biosynthesis in medicinal and aromatic plants; the enhancement of phytochemical levels, and the action mechanisms, diversity and characterization of PGPRs. The reviews will be of interest for scientists in the fields of agriculture, microbiology, soil biology, plant breeding and herbal medicinal products.