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Novel Biodegradable Microbial Polymers - E.A. Dawes 2012-12-06
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.

Science and Empires - P. Petitjean 2012-12-06
SCIENCE AND EMPIRES: FROM THE INTERNATIONAL COLLOQUIUM TO THE BOOK Patrick PETITJEAN, Catherine JAMI and Anne Marie MOULIN The International Colloquium "Science and Empires - Historical Studies about Scientific De velopment and European Expansion" is the product of an International Colloquium, "Sciences and Empires - A Comparative History of Scien tific Exchanges: European Expansion and Scientific Development in Asian, African, American and Oceanian Countries". Organized by the REHSEIS group (Research on Epistemology and History of Exact Sciences and Scientific Institutions) of CNRS (National Center for Scientific Research), the colloquium was held from 3 to 6 April 1990 in the UNESCO building in Paris. This colloquium was an idea of Professor Roshdi Rashed who initiated this field of studies in France some years ago, and proposed "Sciences and Empires" as one of

the main research programmes for the The project to organize such a colloquium was a bit REHSEIS group. of a gamble. Its subject, reflected in the title "Sciences and Empires", is not a currently-accepted sub-discipline of the history of science; rather, it refers to a set of questions which found autonomy only recently. The terminology was strongly debated by the participants and, as is frequently suggested in this book, awaits fuller clarification.

Regulating with RNA in Bacteria and Archaea - Gisela Storz 2020-07-10

Revealing the many roles of RNA in regulating gene expression For decades after the discoveries of messenger RNA, transfer RNA, and ribosomal RNA, it was largely assumed that the role of RNA in the cell was limited to shuttling the genomic message, chaperoning amino acids, and toiling in the ribosomes. Eventually, hints that RNA molecules might have regulatory roles began to appear. With the advent of genomics and bioinformatics, it became evident that numerous other RNA forms exist and have specific functions, including small RNAs (sRNA), RNA thermometers, and riboswitches to regulate core metabolic pathways, bacterial pathogenesis, iron homeostasis, quorum sensing, and biofilm formation. All of these functions, and more, are presented in Regulating with RNA in Bacteria and Archaea, written by RNA biologists from around the globe. Divided into eight sections-RNases and Helicases, Cis-Acting RNAs, Cis Encoded Base Pairing RNAs, Trans-Encoded Base Pairing RNAs, Protein Titration and Scaffolding, General Considerations, Emerging Topics, and Resources-this book serves as an excellent resource for established RNA biologists and for the many scientists who are studying regulated cellular systems. It is no longer a fair assumption that gene expression regulation is the provenance of proteins only or that control is exerted primarily at the level of transcription. This book makes clear that regulatory RNAs are key partners along with proteins in controlling the complex interactions and pathways found within prokaryotes.

Mapping research and innovation in the State of Israel - Lemarchand, Guillermo A. 2016-03-10

Medical Herbalism - David Hoffmann 2003-10-24

A foundational textbook on the scientific principles of therapeutic herbalism and their application in medicine • A complete handbook for the medical practitioner • Includes the most up-to-date information on preparations, dosage, and contraindications • By the author of The Complete Illustrated Holistic Herbal Medical Herbalism contains comprehensive information concerning the identification and use of medicinal plants by chemical structure and physiological effect, the art and science of making herbal medicine, the limitations and potential of viewing herbs chemically, and the challenge to current research paradigms posed by complex plant medicines. It also includes information on toxicology and contraindications, the issues involved in determining dosage and formulation types for an individual, guides to the different measurement systems and conversion tables, and the pros and cons of both industrial and traditional techniques. With additional sections devoted to the principles of green medicine, the history of Western Herbalism, the variety of other medical modalities using medicinal plants, an extensive resource directory, and a discussion of treatments organized by body system, Medical Herbalism is the comprehensive textbook all students and practitioners of clinical herbalism need to develop their healing practices.

Biology and Biotechnology of Actinobacteria - Joachim Wink 2017-10-19

This book provides in-depth insights into the biology, taxonomy, genetics, physiology and biotechnological applications of Actinobacteria. It especially focuses on the latter, reviewing the wide variety of actinobacterial bioactive molecules and their benefits for diverse industrial applications such as agriculture, aquaculture, biofuel production and food technology. Actinobacteria are one of the most promising sources of small bioactive molecules and it is estimated that only a small percentage of actinobacterial bioactive chemicals have been discovered to date. Identifying new diverse gene clusters of biotechnological relevance in the genome of Actinobacteria will be crucial to developing advanced applications for pharmaceutical,

industrial and agricultural purposes. The book offers a unique resource for all graduate students, researchers and practitioners in the fields of microbiology, microbial biotechnology, and the genetic engineering of Actinobacteria.

Using Medicine in Science Fiction - H. G. Stratmann 2015-09-14

This book offers a clearly written, entertaining and comprehensive source of medical information for both writers and readers of science fiction. Science fiction in print, in movies and on television all too often presents dubious or simply incorrect depictions of human biology and medical issues. This book explores the real science behind such topics as how our bodies adapt to being in space, the real-life feasibility of common plot elements such as suspended animation and medical nanotechnology, and future prospects for improving health, prolonging our lives, and enhancing our bodies through technology. Each chapter focuses on a single important science fiction-related subject, combining concise factual information with examples drawn from science fiction in all media. Chapters conclude with a “Bottom Line” section summarizing the most important points discussed in the chapter and giving science fiction writers practical advice on how to incorporate them into their own creations, including a list of references for further reading. The book will appeal to all readers interested in learning about the latest ideas on a variety of science fiction-related medical topics, and offers an invaluable reference source for writers seeking to increase the realism and readability of their works. Henry G. Stratmann, MD, FACC, FACP is a cardiologist with board certifications in internal medicine, cardiology, and nuclear cardiology. Befor e entering private practice he became Professor of Medicine at St. Louis University School of Medicine and performed clinical medical research. Henry received a BA in chemistry from St. Louis University and his MD at Southern Illinois University School of Medicine. He is currently enrolled at Missouri State University to obtain a BS in physics with a minor in astronomy. His professional publications include being an author or coauthor of many research articles for medical journals, primarily in the field of nuclear cardiology. Henry is also a regular contributor of both stories and science fact articles to Analog Science Fiction and Fact.

Modern Tools and Techniques to Understand Microbes - Ajit Varma 2017-04-21

This book provides essential molecular techniques and protocols for analyzing microbes that are useful for developing novel bio-chemicals, such as medicines, biofuels, and plant protection substances. The topics and techniques covered include: microbial diversity and composition; microorganisms in the food industry; mass cultivation of sebacinales; host-microbe interaction; targeted gene disruption; function-based metagenomics to reveal the rhizosphere microbiome; mycotoxin biosynthetic pathways; legume-rhizobium symbioses; multidrug transporters of yeast; drug-resistant bacteria; the fungal endophyte piriformospora indica; medicinal plants; arbuscular mycorrhizal fungi; biosurfactants in microbial enhanced oil recovery; and biocontrol of the soybean cyst nematode with root endophytic fungi; as well as microbe-mediated drought tolerance in plants.

Dermatologic Complications with Body Art - Christa de Cuyper 2009-12-01

Body piercings, tattoos, and permanent make-up have become very popular as a fashion statement in recent decades. This book guides the reader through the world of body art. An overview is first provided of the history and epidemiology of tattoos and piercings. Subsequent chapters go on to examine in detail the materials and devices used in various forms of body art, and the techniques employed. All relevant risks and potential complications are clearly described with the aid of color illustrations. Special attention is paid to allergic reactions and the management of complications. The closing chapter examines the techniques and devices used for tattoo removal, with a particular focus on the use of different lasers.

Forthcoming Books - Rose Arny 1983

Green Biosynthesis of Nanoparticles - Mahendra Rai 2013-12-04

There are physical and chemical methods of synthesis of nanomaterials. But due to the damage caused by these methods to the environment

there is a pressing need of green nanotechnology, which is a clean and eco-friendly technology for the development of nanomaterials. The present book includes green synthesis of nanoparticles by algae, diatoms and plants. The mechanism behind the synthesis of nanoparticles will also be discussed. The book would be a valuable resource for students, researchers and teachers of biology, chemistry, chemical technology, nanotechnology, microbial technology and those who are interested in green nanotechnology.

The Pangenome - Hervé Tettelin 2020-01-01

This open access book offers the first comprehensive account of the pan-genome concept and its manifold implications. The realization that the genetic repertoire of a biological species always encompasses more than the genome of each individual is one of the earliest examples of big data in biology that opened biology to the unbounded. The study of genetic variation observed within a species challenges existing views and has profound consequences for our understanding of the fundamental mechanisms underpinning bacterial biology and evolution. The underlying rationale extends well beyond the initial prokaryotic focus to all kingdoms of life and evolves into similar concepts for metagenomes, phenomes and epigenomes. The books respective chapters address a range of topics, from the serendipitous emergence of the pan-genome concept and its impacts on the fields of microbiology, vaccinology and antimicrobial resistance, to the study of microbial communities, bioinformatic applications and mathematical models that tie in with complex systems and economic theory. Given its scope, the book will appeal to a broad readership interested in population dynamics, evolutionary biology and genomics.

Female Pelvic Medicine and Reconstructive Pelvic Surgery - Harold P. Drutz 2007-12-31

This text includes sections on anatomy, normal and abnormal physiology, investigation techniques, inflammatory conditions and treatment options. The international panel of contributors is at the forefront of research in the field; the editors have assembled these contributors and topics that span the entire range of pelvic floor disorders in women. Throughout, the emphasis is on an evidence-based approach to the treatment of pelvic floor problems. Indispensable for gynecologists and urologists.

Useful Friendship - Peter Robb 2014

Robb's portrayal of Calcutta around 1800 again focuses on middling Europeans and the workings of friendship. It shows friendly norms and networks underwriting credit, securing jobs, shaping work-practices, facilitating town-development, and mediating for law and administration, while mostly excluding Indian employers, partners, agents, and employees. Europeans' personal experiences and mores assisted the evolution and acceptance of public regulation, and theconvenient invention of a 'virtuous' British imperial identity, while Europeans and Indians often displayed mutual failures of inclusion and understanding.

Skin-Related Neglected Tropical Diseases (Skin-NTDs): A New Challenge - Roderick J. Hay 2019-07-31

This book is a printed edition of the Special Issue Skin-Related Neglected Tropical Diseases (Skin-NTDs)—A New Challenge that was published in TropicalMed

Cancer Associated Viruses - Erle S. Robertson 2012-02-14

The acknowledgment that viruses are potent biological factors in driving many cancers have seen a dramatic upsurge in recent years in large part to the success of the human papilloma virus vaccine against invasive cervical carcinomas and followed by the awarding of the noble prize in medicine in 2008 to Dr. Harald zurHausen who identified the link between papilloma virus and cervical cancers. Over the last few years there have been some volumes addressing different aspects of viruses and cancers and to some extent focusing on the DNA viruses, more specifically the human DNA viruses. This proposed volume will attempt to review and address the major gaps in current knowledge in DNA viruses as well as RNA viruses bringing a historical perspective of where studies began to a more recent molecular approach and vaccine successes in tumor viruses. We will also cover other known oncogenic viruses associated cancers in other mammals in addition to humans.

Female Pelvic Surgery - Farzeen Firoozi 2020-01-21

The fully updated edition of this text provides a state-of-the-art surgical

review of female pelvic surgery, and will serve as a valuable resource for clinicians and surgeons dealing with, and interested in the treatment of pelvic floor disorders. The book reviews the basic indications for treatment and details the many surgical approaches to the management of all pelvic floor disorders, including stress urinary incontinence, transvaginal prolapse, transabdominal sacrocolpopexy, robotic/laparoscopic sacrocolpopexy, vaginal and vulvar cysts, and interstitial cystitis/bladder pain syndrome. In addition to step-by-step descriptions, the text is augmented with illustrations and photographs of surgical techniques demonstrating the major repairs described in each section. Written by experts in their fields, the second edition of Female Pelvic Surgery provides a concise and comprehensive review of all surgical approaches to female pelvic surgery.

Molecular Biotechnology - Glick Bernard R 1998

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 monclonal antibodies.

Fundamental Principles of Bacteriology - A.J. Salle 2007-03

A guide perfect for students wishing to learn the important fundamental principles that form the basis of a fascinating and complex field. Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Celiac Disease and Non-Celiac Gluten Sensitivity - Luis Rodrigo 2014-11-07

Celiac disease is a systemic autoimmune process and appears in genetically predisposed individuals, with a well-known cause, consisting in a permanent intolerance to gluten, a protein contained in the flour of wheat, rye, barley and oats. Worldwide celiac disease affects to 1% of the Caucasian and there is recent evidence that the disease is increasing in USA and Finland among other regions in the world. It is considered to be the most prevalent disease with a genetic predisposition. The clinical forms of presentation are varied. The classical form consisting of diarrhea, anemia and failure to thrive is still common in children, but in the adult patients the symptoms resemble the irritable bowel syndrome. Mono-symptomatic forms with extra-intestinal manifestations are frequent. Hematological, cutaneous, articular, hepatic, bone and neurological manifestations are often described. This protean presentation and the lack of awareness explain the delay in diagnosis and suggest that screening in high-risk groups is indicated. The publication of this book written mainly by Spanish and Latin-American clinicians, researchers, and teachers, demonstrates the wide interest and the involvement of different disciplines that are necessary to understand celiac disease and gluten-related pathologies, such as non-celiac gluten-sensitivity. This has a great impact in the general public and in the industry. However, the knowledge of non-celiac gluten-related pathologies remains scarce but presently in the process of being properly defined. This book also highlights the importance of recognizing non-celiac gluten-sensitivity and briefly discusses a new definition. It also provides some perspectives to take into account when studying celiac disease in China and Central America. It describes new observations in Mexico, El Salvador and Costa Rica. The psychosocial impact as studied and reported by Argentinean investigators also adds to the value of this book. Written with a multidisciplinary team, we think that this book could be of interest to a great variety of medical specialists. Due to the systemic nature and variable presentation of celiac disease it certainly is of interest to pediatricians, gastroenterologists, hepatologists, specialists in internal medicine, general practitioners as well as hematologists, immunologists, geneticists, pathologists, rheumatologists, dermatologists, neurologists, gynecologists, neurologists, psychiatrists, psychologists, orthopedic surgeons, specialists in rehabilitation medicine, endocrinologists. Being gluten the cause of these disorders, the food industry, dietitians and nutritionists will benefit from the valuable information presented in this book.

The Microbes Fight Back - Laura Bowater 2017-10-25

Antibiotics are familiar drugs to us all, so familiar that we may take them

for granted. They allow us to survive life-threatening infections, and allow us to protect the animals we farm for food. Many antibiotics have now become ineffective against common diseases, and there are few alternative treatments to replace them. In this topical popular science book, Laura Bowater, Professor of Microbiology Education and Engagement at Norwich Medical School, considers the past, present and uncertain future of antibiotics. This book begins by looking back at how infectious diseases, such as smallpox and the plague, were able to wreak havoc on populations before the discovery of the first antibiotics. These then revolutionised the medical world. In an engaging and accessible style, Professor Bowater takes the reader through how antibiotics are made, how bacteria are able to mutate and develop resistance and she explains why there is now a lack of new antibiotic drugs coming to market. What will a future of continued antibiotic resistance look like? How can human activities prevent the rise of ‘superbugs'? Professor Bowater highlights the need for universal cooperation in order to tackle this global health challenge, which, if not addressed, could transport us back to the medical dark ages.

Advanced Techniques in Diagnostic Microbiology - Yi-Wei Tang 2007-01-16

Clinical microbiologists are engaged in the field of diagnostic microbiology to determine whether pathogenic microorganisms are present in clinical specimens collected from patients with suspected infections. If microorganisms are found, these are identified and susceptibility profiles, when indicated, are determined. During the past two decades, technical advances in the field of diagnostic microbiology have made constant and enormous progress in various areas, including bacteriology, mycology, mycobacteriology, parasitology, and virology. The diagnostic capabilities of modern clinical microbiology laboratories have improved rapidly and have expanded greatly due to a technological revolution in molecular aspects of microbiology and immunology. In particular, rapid techniques for nucleic acid amplification and characterization combined with automation and user-friendly software have significantly broadened the diagnostic arsenal for the clinical microbiologist. The conventional diagnostic model for clinical microbiology has been labor-intensive and frequently required days to weeks before test results were available. Moreover, due to the complexity and length of such testing, this service was usually directed at the hospitalized patient population. The physical structure of laboratories, staffing patterns, workflow, and turnaround time all have been influenced profoundly by these technical advances. Such changes will undoubtedly continue and lead the field of diagnostic microbiology inevitably to a truly modern discipline. Advanced Techniques in Diagnostic Microbiology provides a comprehensive and up-to-date description of advanced methods that have evolved for the diagnosis of infectious diseases in the routine clinical microbiology laboratory. The book is divided into two sections. The first techniques section covers the principles and characteristics of techniques ranging from rapid antigen testing, to advanced antibody detection, to in vitro nucleic acid amplification techniques, and to nucleic acid microarray and mass spectrometry. Sufficient space is assigned to cover different nucleic acid amplification formats that are currently being used widely in the diagnostic microbiology field. Within each technique, examples are given regarding its application in the diagnostic field. Commercial product information, if available, is introduced with commentary in each chapter. If several test formats are available for a technique, objective comparisons are given to illustrate the contrasts of their advantages and disadvantages. The second applications section provides practical examples of application of these advanced techniques in several "hot" spots in the diagnostic field. A diverse team of authors presents authoritative and comprehensive information on sequence-based bacterial identification, blood and blood product screening, molecular diagnosis of sexually transmitted diseases, advances in mycobacterial diagnosis, novel and rapid emerging microorganism detection and genotyping, and future directions in the diagnostic microbiology field. We hope our readers like this technique-based approach and your feedback is highly appreciated. We want to thank the authors who devoted their time and efforts to produce their chapters. We also thank

the staff at Springer Press, especially Melissa Ramondetta, who initiated the whole project. Finally, we greatly appreciate the constant encouragement of our family members through this long effort. Without their unwavering faith and full support, we would never have had the courage to commence this project.

Handbook of Enology, Volume 1 - Pascal Ribéreau-Gayon 2006-05-01

The "Microbiology" volume of the new revised and updated Handbook of Enology focuses on the vinification process. It describes how yeasts work and how they can be influenced to achieve better results. It continues to look at the metabolism of lactic acid bacterias and of acetic acid bacterias, and again, how can they be treated to avoid disasters in the winemaking process and how to achieve optimal results. The last chapters in the book deal with the use of sulfur-dioxide, the grape and its maturation process, harvest and pre-fermentation treatment, and the basis of red, white and speciality wine making. The result is the ultimate text and reference on the science and technology of the vinification process: understanding and dealing with yeasts and bacterias involved in the transformation from grape to wine. A must for all serious students and practitioners involved in winemaking.

Soil and Culture - Edward R. Landa 2010-01-28

SOIL: beneath our feet / food and fiber / ashes to ashes, dust to dust / dirt!Soil has been called the final frontier of environmental research. The critical role of soil in biogeochemical processes is tied to its properties and place—porous, structured, and spatially variable, it serves as a conduit, buffer, and transformer of water, solutes and gases. Yet what is complex, life-giving, and sacred to some, is ordinary, even ugly, to others. This is the enigma that is soil. Soil and Culture explores the perception of soil in ancient, traditional, and modern societies. It looks at the visual arts (painting, textiles, sculpture, architecture, film, comics and stamps), prose & poetry, religion, philosophy, anthropology, archaeology, wine production, health & diet, and disease & warfare. Soil and Culture explores high culture and popular culture—from the paintings of Hieronymus Bosch to the films of Steve McQueen. It looks at ancient societies and contemporary artists. Contributors from a variety of disciplines delve into the mind of Carl Jung and the bellies of soil eaters, and explore Chinese paintings, African mud cloths, Mayan rituals, Japanese films, French comic strips, and Russian poetry.

Recent Advances in Biotechnology - F. Vardar-Sukan 2012-12-06

In last decades rapid scientific and engineering developments have been occuring within the context of Biotechnology. If the World Economy is to benefit fully from the advances in biosciences and biochemical engineering, it must be able to focus new knowledge on commercially appropriate targets. Modern Biotechnology is a mixture of far reaching innovation superimposed on an industrial background and it represents a means of production with bright prospects, challenging problems and stimulating competition. This NATO Advanced Study Institute on "RECENT ADVANCES IN INDUSTRIAL APPLICATIONS OF BIOTECHNOLOGY" held between September 16-27, 1991 in Ku§Etdasl was the first ASI on Biotechnology :Ln Turkey. !t was aiming to provide an updated overview of the fundamental principles, novel application areas and impact of Biotechnology on international economy. Recent developments in the field of Biotechnology have been thoroughly discussed, concentrating on various interdisciplinary aspects. The illain lectures presented at the Institute covered both scientific and commercial aspects of new developments in biotechnology and discussed the possible ways of meeting the challenges of the industry. The main lectures were supplemented by Oral 2nd Poster Presentations. Thus, this volume is comprised of three sections. Part I contains the i~vited lectures and Part II oral presentations. Exte~ded abstracts of poster presentations have been included in Part III to provide a more comprehensive coverage of the ASI.

Poucher's Perfumes, Cosmetics and Soaps - H. Butler 2013-06-29

Poucher's Perfumes Cosmetics and Soaps has been in print since 1923 and is the classic reference work in the field of cosmetics. Now in a fully updated 10th edition, this new volume provides a firm basic knowledge in the science of cosmetics (including toiletries) as well as incorporating the latest trends in scientific applications and legislation which have occurred since the 9th edition. This edition will not only be an excellent

reference book for students entering the industry but also for those in specialized research companies, universities and other associated institutions who will be able to gain an overall picture of the modern cosmetic science and industry. The book has been logically ordered into four distinct parts. The historical overview of Part 1 contains an essay demonstrating William Arthur Poucher's influence on the 20th Century cosmetics industry as well as a chapter detailing the long history of cosmetics. Part 2 is a comprehensive listing of the properties and uses of common cosmetic types, ranging from Antiperspirants through to Sunscreen preparations. There are an increased number of raw materials in use today and their chemical, physical and safety benefits are carefully discussed along with formulation examples. The many additions since the last edition demonstrate the dramatic recent expansion in the industry and how changes in legal regulations affecting the development, production and marketing of old, established and new products are operative almost worldwide. Information on specialist products for babies and others is included within individual chapters. The chapters in Part 3 support and outline the current guidelines regarding the assessment and control of safety and stability. This information is presented chemically, physically and microbiologically. Part 3 chapters also detail requirements for the consumer acceptability of both existing and new products. Those legal regulations now in force in the EU, the USA and Japan are carefully described in a separate chapter and the remaining chapters have been extensively updated to explain the technical and practical operations needed to comply with regulations when marketing. This information will be invaluable to European Union and North American companies when preparing legally required product information dossiers. The final chapters in Part 4 contain useful information on the psychology of perfumery as well as detailing methods for the conduct of assessment trials of new products. As ingredient labelling is now an almost universal legal requirement the International Nomenclature of Cosmetics Ingredients (INCI) for raw materials has been used wherever practicable. The advertised volume is the 10th edition of what was previously known as volume 3 of Poucher's Cosmetics and Soaps. Due to changes in the industry there are no plans to bring out new editions of volume 1 and 2.

Applied Microbiology - Sanjai Saxena 2015-03-19

The book is oriented towards undergraduates science and engineering students; postgraduates and researchers pursuing the field of microbiology, biotechnology, chemical - biochemical engineering and pharmacy. Various applications of microorganisms have been covered broadly and have been appropriately reflected in depth in 12 different chapters. The book begins with an insight to the diverse niche of microorganisms which have been explored and exploited in development of various biotechnological products and green processes. Further, how these microorganisms have been genetically modified to improve the desired traits for achieving optimal production of microbially derived products is discussed in the second chapter. Major route of production of microbially derived products and processes is through fermentation technology and therefore due emphasis on different aspects of fermentation technology has been given in the subsequent chapter. The development and deployment of biopesticides and biofertilizers which find tremendous application have been separately discussed under agricultural applications. Application of microbes for the removal of pollutants, recovery of metals and oils has also been discussed under environmental applications. The role of microbial systems in development of fermented foods and beverages have also been discussed in Chapter 6. The application of microbes in production of commodity chemicals and fine chemicals has also been discussed in separate chapters. A chapter has been dedicated to the tremendous applications of microbially produced enzymes in different industrial sectors. Another unique facet of this book is explaining the different methods by which desired traits of microorganisms have been improved for their efficacious and economical exploitation in the industry. A chapter is dedicated to exploitation of microorganisms in development of vaccines for human and veterinary use. Finally, the last chapter discusses the role of immobilization in optimization of industrial processes and development of microbial biosensors for industrial applications. Thus, this book is a

holistic approach providing information on the present applications of microorganisms.

Mountstuart Elphinstone in South Asia - Shah Mahmoud Hanifi 2019-07-15

Mountstuart Elphinstone (1779-1859), Lowland Scottish traveller, East India Company civil servant and educator, was one of the principal intellectual architects of British colonial rule in South Asia. Imbued with liberal views, such that Bombay's wealthy founded Elphinstone College in his memory, he pioneered the scholarly, scientific and administrative foundations of imperialism in India. Elphinstone's career was launched when he was picked to lead the inaugural British diplomatic mission to the Afghan court. His Account of the Kingdom of Caubul (1815) became the main source of British information about Afghanistan. He is best known for his periods as Resident at Poona and Governor of Bombay in the 1810s and 1820s, when he instituted innovative and lasting policies in administration and education while also conducting research for his extremely influential History of India (1841). This volume examines Mountstuart Elphinstone's intellectual contributions and administrative career in their own right, in relation to prominent contemporaries including Charles Metcalfe and William Moorcroft, and in the context of later historical study of India, Afghanistan, British imperialism and its imperial frontiers.

Mummy Portraits of Roman Egypt - Marie Svoboda 2020-08-25

This publication presents fascinating new findings on ancient Romano-Egyptian funerary portraits preserved in international collections. Once interred with mummified remains, nearly a thousand funerary portraits from Roman Egypt survive today in museums around the world, bringing viewers face-to-face with people who lived two thousand years ago. Until recently, few of these paintings had undergone in-depth study to determine by whom they were made and how. An international collaboration known as APPEAR (Ancient Panel Paintings: Examination, Analysis, and Research) was launched in 2013 to promote the study of these objects and to gather scientific and historical findings into a shared database. The first phase of the project was marked with a two-day conference at the Getty Villa. Conservators, scientists, and curators presented new research on topics such as provenance and collecting, comparisons of works across institutions, and scientific studies of pigments, binders, and supports. The papers and posters from the conference are collected in this publication, which offers the most up-to-date information available about these fascinating remnants of the ancient world.

The Prokaryotes - Edward F. DeLong 2014-10-21

The Prokaryotes is a comprehensive, multi-authored, peer reviewed reference work on Bacteria and Achaea. This fourth edition of The Prokaryotes is organized to cover all taxonomic diversity, using the family level to delineate chapters. Different from other resources, this new Springer product includes not only taxonomy, but also prokaryotic biology and technology of taxa in a broad context. Technological aspects highlight the usefulness of prokaryotes in processes and products, including biocontrol agents and as genetics tools. The content of the expanded fourth edition is divided into two parts: Part 1 contains review chapters dealing with the most important general concepts in molecular, applied and general prokaryote biology; Part 2 describes the known properties of specific taxonomic groups. Two completely new sections have been added to Part 1: bacterial communities and human bacteriology. The bacterial communities section reflects the growing realization that studies on pure cultures of bacteria have led to an incomplete picture of the microbial world for two fundamental reasons: the vast majority of bacteria in soil, water and associated with biological tissues are currently not culturable, and that an understanding of microbial ecology requires knowledge on how different bacterial species interact with each other in their natural environment. The new section on human microbiology deals with bacteria associated with healthy humans and bacterial pathogenesis. Each of the major human diseases caused by bacteria is reviewed, from identifying the pathogens by classical clinical and non-culturing techniques to the biochemical mechanisms of the disease process. The 4th edition of The Prokaryotes is the most complete resource on the biology of prokaryotes. The following

volumes are published consecutively within the 4th Edition: Prokaryotic Biology and Symbiotic Associations Prokaryotic Communities and Ecophysiology Prokaryotic Physiology and Biochemistry Applied Bacteriology and Biotechnology Human Microbiology Actinobacteria Firmicutes Alphaproteobacteria and Betaproteobacteria Gammaproteobacteria Deltaproteobacteria and Epsilonproteobacteria Other Major Lineages of Bacteria and the Archaea

Assigning Responsibility for Children's Health When Parents and Authorities Disagree: Whose Child? - Allan J. Jacobs 2021-10-26

This book provides a multidisciplinary analysis of the potential conflict between a government's duty to protect children and a parent(s)' right to raise children in a manner they see fit. Using philosophical, bioethical, and legal analysis, the author engages with key scholars in pediatric decision-making and individual and religious rights theory. Going beyond the parent-child dyad, the author is deeply concerned both with the inteests of the broader society and with the appropriate limits of government interference in the private sphere. The text offers a balance of individual and population interests, maximizing liberty but safeguarding against harm. Bioethics and law professors will therefore be able to use this text for both a foundational overview as well as specific, subject-level analysis. Clinicians such as pediatricians and gynecologists, as well as policy-makers can use this text to achieve balance between these often competing claims. The book is written by a physician with practical and theoretical knowledge of the subject, and deep sympathy for the parental and family perspectives. As such, the book proposes a new way of evaluating parental and state interventions in children's' healthcare: a refreshing approach and a useful addition to the literature.

Theory and Problems of Statistics - Spiegel M. R. 1984

Dive Deeper - George Cotkin 2012-09-06

An easy-to-navigate guide to Herman Melville's epic American novel, Dive Deeper consists of 135 brief chapters, along with Etymology, Extracts, and Epilogue, each keyed to a phrase, issue, image, sensibility or notion in corresponding chapters of the original.

The Conservation Biology of Tortoises - IUCN/SSC Tortoise and Freshwater Turtle Specialist Group 1989

Making the Scene - Alexander Stewart 2007-08-02

The received wisdom of popular jazz history is that the era of the big band was the 1930s and '40s, when swing was at its height. But as practicing jazz musicians know, even though big bands lost the spotlight once the bebop era began, they never really disappeared. Making the Scene challenges conventional jazz historiography by demonstrating the vital role of big bands in the ongoing development of jazz. Alex Stewart describes how jazz musicians have found big bands valuable. He explores the rich "rehearsal band" scene in New York and the rise of repertory orchestras. Making the Scene combines historical research, ethnography, and participant observation with musical analysis, ethnic studies, and gender theory, dismantling stereotypical views of the big band.

Microorganisms in Biorefineries - Birgit Kamm 2014-11-27

The book describes how plant biomass can be used as renewable feedstock for producing and further processing various products. Particular attention is given to microbial processes both for the digestion of biomass and the synthesis of platform chemicals, biofuels and secondary products. Topics covered include: new metabolic pathways of microbes living on green plants and in silage; using lignocellulosic hydrolysates for the production of polyhydroxyalkanoates; fungi such as Penicillium as host for the production of heterologous proteins and enzymes; bioconversion of sugar hydrolysates into lipids; production of succinic acid, lactones, lactic acid and organic lactates using different bacteria species; cellulose hydrolyzing bacteria in the production of biogas from plant biomass; and isoprenoid compounds in engineered microbes.

The Science of Hair Care, Second Edition - CLAUDE. BOUILLON 2005

Parasite and Disease Spread by Major Rivers on Earth - Heinz Mehlhorn

2019-11-12

This book focuses on waterborne pathogens and significant diseases occurring along major rivers around the globe, including key examples like the Amazonas, Mekong River and Nile. Written by leading international experts, it offers unique insights into local riverine infection risks in times of global warming, and addressing these through advances in diagnosis, health management and the development of simple but effective control measures. It also sheds light on why former societies collapsed due to transmitted diseases during periods of climate change, droughts and floods, to help establish effective preventive measures for the future. The book appeals to a wide readership, from scientists in the field of parasitology, infectious diseases and epidemiology, to healthcare managers and general readers with an interest in pathogen spread along the largest rivers on earth. It particularly highlights past and current control mechanisms in times of global warming and assesses potential future health hazards.

Food Safety Handbook - Ronald H. Schmidt 2005-03-11

As with the beginning of the twentieth century, when food safetystandards and the therapeutic benefits of certain foods andsupplements first caught the public’s attention, the dawn ofthe twenty-first century finds a great social priority placed onthe science of food safety. Ronald Schmidt and Gary Rodrick’sFood Safety Handbook provides a single, comprehensive reference onall major food safety issues. This expansive volume covers currentUnited States and international regulatory information, food safetyin biotechnology, myriad food hazards, food safety surveillance,and risk prevention. Approaching food safety from retail, commercial, andinstitutional angles, this authoritative resource analyzes everystep of the food production process, from processing and packagingto handling and distribution. The Handbook categorizes and definesreal and perceived safety issues surrounding food, providingscientifically non-biased perspectives on issues for professionaland general readers. Each part is divided into chapters, which arethen organized into the following structure: Introduction andDefinition of Issues; Background and Historical Significance;Scientific Basis and Implications; Regulatory, Industrial, andInternational Implications; and Current and Future Implications.Topics covered include: Risk assessment and epidemiology Biological, chemical, and physical hazards Control systems and intervention strategies for reducing riskor preventing food hazards, such as Hazard Analysis CriticalControl Point (HACCP) Diet, health, and safety issues, with emphasis on foodfortification, dietary supplements, and functional foods Worldwide food safety issues, including European Unionperspectives on genetic modification Food and beverage processors, manufacturers, transporters, andgovernment regulators will find the Food Safety Handbook to be thepremier reference in its field.

Martinus Willem Beijerinck - G. van Iterson 2013-11-11