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Microbial Biofilms
Synthesis, Concepts, Function
National Institute of Allergy and Infectious Diseases, NIH
Burton's Microbiology for the Health Sciences
Overcoming Antimicrobial Resistance of the Skin
Medical Management of Biological Casualties Handbook
Dialysis Therapy
Approaches in Bioremediation
Global Burden and Challenges of Melioidosis
Antibiotic Resistance
Urgent Care Medicine Secrets E-Book
A Polytechnic Press of the Polytechnic Institute of Brooklyn Book
CURRENT Diagnosis and Treatment in Otolaryngology--Head and Neck Surgery
Facts, Challenges, Technologies and Future Perspectives
Natural Compounds, Nanotechnology and Novel Synthetic Sources
Phage Therapy
Bioluminescence: Fundamentals and Applications in Biotechnology - Volume 2

Human Pharmaceuticals, Hormones and Fragrances
The New Era of Environmental Microbiology and Nanobiotechnology
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Adapting to a Changing Environment
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Handbook of Food-Drug Interactions
The 'Made in Germany' Champion Brands
Pediatric Primary Care
Essential Respiratory Medicine
Antibacterial Drug Discovery to Combat MDR

GRIFFITH HANCOCK

Microbial Biofilms
Springer Science & Business Media
This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.
Synthesis, Concepts, Function
Academic Press
Written by recognized experts in the study of proteins, Proteomics for Biological

Discovery begins by discussing the emergence of proteomics from genome sequencing projects and a summary of potential answers to be gained from proteome-level research. The tools of proteomics, from conventional to novel techniques, are then dealt with in terms of underlying concepts, limitations and future directions. An invaluable source of information, this title also provides a thorough overview of the current developments in post-translational modification studies, structural proteomics, biochemical proteomics, microfabrication, applied proteomics, and bioinformatics relevant to proteomics. Presents a comprehensive and coherent review of the major issues faced in terms of technology development, bioinformatics, strategic approaches, and applications Chapters offer a rigorous overview with summary of limitations, emerging approaches, questions, and realistic future industry and basic science applications Discusses higher level integrative aspects, including technical challenges and applications for drug discovery Accessible to the novice while providing experienced investigators essential information

Proteomics for Biological Discovery is an essential resource for students, postdoctoral fellows, and researchers across all fields of biomedical research, including biochemistry, protein chemistry, molecular genetics, cell/developmental biology, and bioinformatics.

National Institute of Allergy and Infectious Diseases, NIH

Springer

The definitive treatment on the medical evacuation and management of injured patients in both peace- and wartime. Edited by eminent experts in the field, this text brings together medical specialists from all four branches of the armed services. It discusses the history of aeromedical evacuation, triage and staging of the injured patient, evacuation from site of injury to medical facility, air-frame capabilities, medical capabilities in-flight, response to in-flight emergencies, and mass emergency evacuation. Specific medical conditions are addressed in detail, including such general surgical casualties as abdominal wounds and soft tissue, vascular, maxillofacial, head and spinal cord injuries, ophthalmologic, orthopaedic,

pediatric, obstetric-gynecologic casualties, burns, and more. Over 80 illustrations provide a review of transport equipment and both medical and surgical treatment. A must-have reference for all armed forced physicians and flight surgeons, for general and trauma surgeons, internists, intensive care specialists, orthopaedic surgeons, and public health service physicians.

Burton's Microbiology for the Health Sciences

Springer Nature

"Full of information that most ENT surgeons have little experience with...great for exam prep or for a quick read before a presentation... I would recomment that ENT trainees buy this book" Journal of Laranology, March 2012

Overcoming Antimicrobial Resistance of the Skin

MDPI

With contributions from the fields of pharmacy, dietetics, and medicine, Handbook of Food-Drug Interactions serves as an interdisciplinary guide to the prevention and correction of negative food-drug interactions. Rather than simply list potential food-drug interactions, this book provides explanations and gives specific recommendations based on th

Medical Management

of Biological Casualties Handbook CRC Press The observed concentrations of pharmaceuticals and personal care products (PPCPs) in raw wastewater confirm that municipal wastewater represents the main disposal pathway for the PPCPs consumed in households, hospitals and industry. In sewage treatment plant effluents most PPCPs are still present, since many of these polar and persistent compounds are being removed only partially or, in some cases, not at all. Treated wastewater therefore represents an important point source for PPCPs into the environment. After passing a sewage treatment plant the treated wastewater is mostly discharged into rivers and streams or sometimes used to irrigate fields. If drinking water is produced using resources containing a substantial proportion of treated wastewater (e.g. from river water downstream of communities) the water cycle is closed and indirect potable reuse occurs. Human Pharmaceuticals, Hormones and Fragrances provides an overview of the occurrence, analytics, removal and environmental risk of pharmaceuticals and

personal care products in wastewater, surface water and drinking water. The book covers all aspects of the fate and removal of PPCPs in the whole water cycle: consumption and occurrence, analytical methods, the legal background, environmental risk assessment, human and animal toxicology, source control options, wastewater and drinking water treatment as well as indirect reuse. The book presents a summary of the results obtained during the EU project "Poseidon", combined with further expert knowledge on the field, and is written at a level appropriate for professionals involved in management of water resource quality. Professionals in the field including decision makers, engineers and scientists, as well as students entering the field, will find this an invaluable source of information. First comprehensive study on the assessment, fate and removal of pharmaceuticals and personal care products in wastewater and drinking water treatment. Emphasises the importance of micropollutants in the water cycle, provides methods for quantifying their fate and technologies

for their removal. Dialysis Therapy IWA Publishing National Institute of Allergy and Infectious Diseases, NIH: Volume 2: Impact on Global Health covers the scientific aspects of the entire portfolio of NIAID, including microbiology and infectious disease, HIV/AIDS, and immunology and vaccines. All major diseases and the relevant immunology and vaccine development are described in detail. In addition, all major NIAID programs, initiatives, and clinical trials are discussed and illustrate the global involvement of NIAID in biomedical research and its impact on public health worldwide. By providing this information, the global scientific community will be able to access and benefit from these programs and initiatives. **Approaches in Bioremediation** JP Medical Ltd This book is a thorough, practical review of the challenges facing clinicians treating skin microbes and how to combat these therapeutic dilemmas. It expresses the critical public health concern of antimicrobial resistance and shows how microorganisms are developing the ability to halt the progress of antimicrobials like antibiotics, antivirals, and antifungals. Chapters are

grouped together in five sections for ease of use. The first three sections of the book convey foundational information on the mechanisms of antibiotics, antivirals, and antifungals resistance, as well as the implications of lack of vaccination. The fourth section then turns to the specifics of drug resistance for protozoan and helminth infections focusing primarily on initial and subsequent resistance to treatment. The book closes with a discussion on the potential solutions of innovative therapy including new delivery mechanisms, broad-spectrum antibiotics, phytocompounds, and biofilms. Chapters feature magnified, microscopic photos for identifying structures as they appear on the skin. Part of the Updates in Clinical Dermatology series, Overcoming Antimicrobial Resistance of the Skin is an important resource relevant during the COVID-19 pandemic, and is written for all medical healthcare professionals.

Global Burden and Challenges of Melioidosis

Springer Nature

Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches discusses up-to-date knowledge in mechanisms of antibiotic

resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections. Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with resistance. This book also discusses methods used to fight antibiotic-resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance. Discusses methods used to fight antibiotic-resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance, offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific

developments Offers the most up-to-date information in fighting antibiotic resistance Includes involvement of contributors all across the world, presenting questions of interest to readers of both developed and developing countries **Antibiotic Resistance** MDPI 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 Urgent Care Medicine Secrets E-Book Elsevier For more than 30 years, the highly regarded Secrets Series® has provided students and practitioners in all areas of health care with concise, focused, and engaging resources for quick reference and exam review. Urgent Care Secrets, a new volume in this bestselling series, features the Secrets' popular question-and-answer format that also includes lists, tables, and an easy-to-read style – making reference and review quick, easy, and enjoyable. The proven Secrets® format gives you the most return for your time – concise, easy to read, engaging, and highly effective. Provides an evidence-based approach to medical and traumatic complaints

presenting to urgent care centers, focusing on presenting signs and symptoms, differential diagnosis, office management, and when to refer for higher level of care. Covers the full range of essential topics for understanding today's practice of urgent care – essential information for physicians, nurse practitioners, and physician assistants. Clear illustrations, figures, and flow diagrams expedite reference and review. Top 100 Secrets and Key Points boxes provide a fast overview of the secrets you must know for success in practice and on exams. **A Polytechnic Press of the Polytechnic Institute of Brooklyn Book** LWW Bioremediation refers to the clean-up of pollution in soil, groundwater, surface water, and air using typically microbiological processes. It uses naturally occurring bacteria and fungi or plants to degrade, transform or detoxify hazardous substances to human health or the environment. For bioremediation to be effective, microorganisms must enzymatically attack the pollutants and convert them to harmless products. As bioremediation can be effective only where environmental conditions permit

microbial growth and action, its application often involves the management of ecological factors to allow microbial growth and degradation to continue at a faster rate. Like other technologies, bioremediation has its limitations. Some contaminants, such as chlorinated organic or high aromatic hydrocarbons, are resistant to microbial attack. They are degraded either gradually or not at all, hence, it is not easy to envisage the rates of clean-up for bioremediation implementation. Bioremediation represents a field of great expansion due to the important development of new technologies. Among them, several decades on metagenomics expansion has led to the detection of autochthonous microbiota that plays a key role during transformation. Transcriptomic guides us to know the expression of key genes and proteomics allow the characterization of proteins that conduct specific reactions. In this book we show specific technologies applied in bioremediation of main interest for research in the field, with special attention on fungi, which have been poorly studied microorganisms. Finally, new approaches in

the field, such as CRISPR-CAS9, are also discussed. Lastly, it introduces management strategies, such as bioremediation application for managing affected environment and bioremediation approaches. Examples of successful bioremediation applications are illustrated in radionuclide entrapment and retardation, soil stabilization and remediation of polycyclic aromatic hydrocarbons, phenols, plastics or fluorinated compounds. Other emerging bioremediation methods include electro bioremediation, microbe-availed phytoremediation, genetic recombinant technologies in enhancing plants in accumulation of inorganic metals, and metalloids as well as degradation of organic pollutants, protein-metabolic engineering to increase bioremediation efficiency, including nanotechnology applications are also discussed.

CURRENT Diagnosis and Treatment in Otolaryngology--Head and Neck Surgery Springer

This volume focuses on antibiotics research, a field of topical significance for human health due to the worrying increase of nosocomial infections caused by multi-resistant bacteria. It covers several basic aspects, such as the

evolution of antibiotic resistance and the influence of antibiotics on the gut microbiota, and addresses the search for novel pathogenicity blockers as well as historical aspects of antibiotics. Further topics include applied aspects, such as drug discovery based on biodiversity and genome mining, optimization of lead structures by medicinal chemistry, total synthesis and drug delivery technologies. Moreover, the development of vaccines as a valid alternative therapeutic approach is outlined, while the importance of epidemiological studies on important bacterial pathogens, the problems arising from the excessive use of antibiotics in animal breeding, and the development of innovative technologies for diagnosing the “bad bugs” are discussed in detail. Accordingly, the book will appeal to researchers and clinicians alike.

Facts, Challenges, Technologies and Future Perspectives

Springer

The emergence of bacteria resistant to multiple antibiotics has become a serious threat to public health and is considered one of the greatest challenges for contemporary medicine. Phage therapy - the use of

bacteriophages as anti-bacterial agents - may offer an alternative treatment for bacterial infections. Phages have many potential applications in human medicine, as well as in dentistry, veterinary science, agriculture, and food protection. Written by internationally recognized experts from leading centers involved in phage research and phage therapy, this book provides comprehensive coverage of the topic with a focus on current research and emerging applications. The book opens with chapters covering the general characteristics of bacteriophages and the basic concepts of phage therapy. Further topics include: the pharmacology of phage therapy * bacterial resistance * non-bactericidal effects of phages * main applications of bacteriophages in clinical medicine * plant pathosystems * animal production * food protection * biofilm control * regulatory and intellectual property aspects of phage therapy. Although the book focuses on applications of virulent bacteriophages, it also discusses genetically-engineered phages, phages as delivery

vehicles for other antimicrobials, as well as phage lysins. It will be an essential reference for anyone interested in phage therapy, antibacterial resistance, antimicrobial development, bacteriophage research, biocontrol, and biodetection. [Subject: Molecular Biology, Life Science, Medicine] *Natural Compounds, Nanotechnology and Novel Synthetic Sources* MDPI

The revised, updated Fourth Edition of this popular handbook provides practical, accessible information on all aspects of dialysis, with emphasis on day-to-day management of patients. Chapters provide complete coverage of hemodialysis, peritoneal dialysis, special problems in dialysis patients, and problems pertaining to various organ systems. This edition reflects the

latest guidelines of the National Kidney Foundation's Kidney Disease Outcomes Quality Initiative (KDOQI) on hemodialysis and peritoneal dialysis adequacy and on nutrition. New chapters cover chronic kidney disease management in predialysis patients, frequent daily or nocturnal hemodialysis, and hemodiafiltration. Chapters on venous and arteriovenous access have

been completely revised. Each chapter provides references to relevant Web sites.

Phage Therapy John Wiley & Sons

A comprehensive reference covering all aspects of the clinical management of adult and child dialysis patients. This edition includes seven new chapters including one on EPO use in dialysis patients and one on the HIV positive patient.

Bioluminescence: Fundamentals and Applications in Biotechnology - Volume 2 Springer Nature

Antibiotics and Antimicrobial Resistance Genes (AMR) in the Environment summarizes and updates information on antibiotic producing organisms and their resistance and entry routes in soil, air, water and sediment. As antibiotic use continues to rise in healthcare, their fate, bioavailability and biomonitoring, and impacts on environment and public health are becoming increasingly important. The book addresses the impact of antibiotics and AMR to environment and public health and risk assessment. Moreover, it focused on the metagenomics and molecular techniques for the detection of antibiotics and antimicrobial genes. Lastly, it introduces

management strategies, such as treatment technologies for managing antibiotics and AMR/ARGs-impacted environment, and bioremediation approaches. Summarizes and updates information on antibiotics and AMR/ARGs production and its fate and transport in the environment Includes phytoremediation and bioremediation technologies for environmental management Provides analysis of risk assessment of antibiotic resistance genes to help understand the environmental and socioeconomic impacts of antibiotics and AMR/ARGs *Human Pharmaceuticals, Hormones and Fragrances* Antibiotics and Antimicrobial Resistance GenesEnvironmental Occurrence and Treatment Technologies This edited volume discusses the role of various microbial products in healthcare, environment and agriculture. Several microbial products are directly involved in solving major health problems, agricultural and environmental issues. In healthcare sector, microbes are used as anti-tumor compounds, antibiotics, anti-parasitic agents, enzyme inhibitors and immunosuppressive agents. Microbial

products are also used to degrade xenobiotic compounds and bio-surfactants, for biodegradation process. In agriculture, microbial products are used to enhance nutrient uptake, to promote plant growth, or to control plant diseases. The book presents several such applications of microbes in the ecosystems. The chapters are contributed from across the globe and contain up-to-date information. This book is of interest to teachers, researchers, microbiologists and ecologists. Also the book serves as additional reading material for undergraduate and graduate students of agriculture, forestry, ecology, soil science, and environmental sciences. *The New Era of Environmental Microbiology and Nanobiotechnology* McGraw Hill Professional Fully revised, new edition presenting latest developments in gynaecology. Includes numerous graphics and diagrams and an interactive DVD ROM. Previous edition published in 2007. *Volume 1 in the Advances in Environmental Pollution Research series* Springer Nature The Cell Cycle: Gene-Enzyme Interactions focuses on the

interaction of the genetic and enzymatic complements of a cell, as well as the control of genetic expression in bacterial cells. The selection first offers information on cell evolution and the thermodynamics and regulation of chromosome replication and cell division in Escherichia coli. Discussions focus on genome evolution, selection and thermodynamics, coordination between chromosome replication and cell division, and cellular response to nutritional alterations. The text then elaborates on temporal control of gene expression in bacteria, including rate of induced enzyme synthesis in synchronous populations; change in rate of induced enzyme synthesis and sequential gene replication; metabolic oscillations and the temporal control of enzyme synthesis; and DNA replication and the integration of cell growth and division. The publication examines synchrony and the formation and germination of bacterial spores and synthesis of macromolecules during the cell cycle in yeast. Topics include gene position and enzyme timing, synthesis of ribosomal and transfer RNA during the cell

cycle, and analysis of synchrony during sporulation. The selection is highly recommended for readers wanting to study cell cycle.

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