

New Delhi Beta Metallo Lactamase

Andrew A. Udy,Jason A. Roberts,Jeffrey Lipman

Metalloenzymes Claudiu T. Supuran,William Alexander Donald,2023-08-30 Metalloenzymes: From Bench to Bedside offers a thorough overview of metalloenzymes, spanning biochemical and structural features, pharmacology, and biotechnological applications. After a brief overview, international experts in the field discuss a wide range of magnesium, calcium, zinc, manganese, nickel, iron, copper, cadmium, molybdenum, and tungsten enzymes, along with catalytic roles within their active sites. With a uniform approach throughout, each chapter includes the structure and function of the enzyme, physiologic and pathologic roles, inhibitors and activators of the enzyme (and their design), and clinical agents or compounds applied in medicine and drug discovery. This book enables scientists across academia and industry to adopt ongoing metalloenzyme research, and continuous discovery of novel metalloenzymes, in new life science studies and clinical applications. - Examines a range of metalloenzymes, from biochemistry to pharmacology and drug design - Each chapter examines enzyme structure and function, physiologic and pathologic roles, inhibitors and activators, and clinical application - Features chapter contributions from international experts in the field

New Delhi Metallo-beta-lactamase Latoya Comer,2011

Metalloenzymes: Potential Drug Targets Jamshed Iqbal,Jean Sévigny,Claus Jacob,2021-11-12

Beta-Lactam Resistance in Gram-Negative Bacteria Mohammad Shahid,Anuradha Singh,Hiba Sami,2022-04-22 This timely book discusses antimicrobial drug resistance, specifically, the resistance against the beta-lactam class of antibiotics by Gram-Negative bacteria. The book is broadly divided into five sections. The first section describes the underlying mechanisms of antimicrobial resistance in Gram-negative bacteria. It gives an insight into the beta-lactamases, their types, classification, inhibitors, etc. The second section delves deep into the genetic basis of resistance. It talks about transposons, integrons, insertion sequences associated with antibiotic-resistant genes. The next section describes phenotypic and molecular methods to detect beta-lactam resistance. The fourth section talks about the epidemiology and prevalence of beta-lactamases in the environment. The last section of the book describes the various therapeutic options to combat this growing public threat of antimicrobial resistance. It talks about the current reserve drugs, as well as the newer antibiotic agents that are in the pipeline. This book is essential for clinical practitioners, students, and researchers in basic and medical microbiology.

The Chemistry and Biology of Beta-Lactams Zerong Wang,2023-05-12 This new volume provides the most updated information about beta-lactams relating to both the pharmaceutical industry and synthetic chemistry. It provides the antibiotic activities as well as chemical reactivities of beta-lactams, which are important because they are commonly applied as antibiotics in the treatment of bacterial infections. The volume provides comprehensive coverage of most of the known beta-lactam antibiotics with both structural and biological information, antibiotic mechanisms, self-defense mechanisms of bacteria, nearly all known synthetic methods for the preparation of beta-lactams, and possible reactions in which beta-lactams can participate. Key features: Provides the most comprehensive collection of beta-lactam antibiotics (up to 269 molecules) with chemical structures, CAS number, IUPAC names and associated biological activities attached Offers a comprehensive and detailed collection of beta-lactamase databases Explains the self-defense mechanisms of bacteria for surviving, including the formation of biofilm and conversion into L-form and secretion of beta-lactamase to deactivate the beta-lactam antibiotics Provides a comprehensive survey on the synthetic methods to make beta-lactams Gives all of the possible reactions involving beta-lactams as the starting materials Surveys over 1000 research works and includes all available DOI information The volume is a valuable resource on the antibiotic activities as well as chemical reactivities of beta-lactams for researchers and scientists, faculty, and advanced students, as well as for industry professionals working in medicinal and pharmaceutical chemistry, organic chemistry, organic synthesis, heterocycles, proteins and peptides.

Zinc Enzyme Inhibitors Claudiu T. Supuran,Clemente Capasso,2016-11-04 Medicinal chemistry is both science and art. The science of medicinal chemistry offers mankind one of its best hopes for improving the quality of life. The art of medicinal chemistry continues to challenge its practitioners with the need for both intuition and experience to discover new drugs. Hence sharing the experience of drug research is uniquely beneficial to the field of medicinal chemistry. Drug research requires interdisciplinary team-work at the interface between chemistry, biology and medicine. Therefore, the topic-related series Topics in Medicinal Chemistry covers all relevant aspects of drug research, e.g. pathobiochemistry of diseases, identification and validation of (emerging) drug targets, structural biology, drugability of targets, drug design approaches, chemogenomics, synthetic chemistry including combinatorial methods, bioorganic chemistry, natural compounds, high-throughput screening, pharmacological in vitro and in vivo investigations, drug-receptor interactions on the molecular level, structure-activity relationships, drug absorption, distribution, metabolism, elimination, toxicology and pharmacogenomics. In general, special volumes are edited by well known guest editors.

The WHO AWaRe (Access, Watch, Reserve) antibiotic book World Health Organization,2022-11-14

Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill Andrew A. Udy,Jason A. Roberts,Jeffrey Lipman,2017-09-18 This book provides unique insights into the issues that drive modified dosing regimens for antibiotics in the critically ill. Leading international authors provide their commentary alongside a summary of existing

evidence on how to effectively dose antibiotics. Severe infection frequently necessitates admission to the intensive care unit (ICU). Equally, nosocomial sepsis often complicates the clinical course in ICU. Early, appropriate application of antibiotic therapy remains a cornerstone of effective management. However, this is challenging in the critical care environment, given the significant changes in patient physiology and organ function frequently encountered. Being cognisant of these factors, prescribers need to consider modified dosing regimens, not only to ensure adequate drug exposure, and therefore the greatest chance of clinical cure, but also to avoid encouraging drug resistance.

Bacterial Resistance to Antibiotics Boyan B. Bonev, Nicholas M. Brown, 2019-03-14 AN AUTHORITATIVE SURVEY OF CURRENT RESEARCH INTO CLINICALLY USEFUL CONVENTIONAL AND NONCONVENTIONAL ANTIBIOTIC THERAPEUTICS Pharmaceutically-active antibiotics revolutionized the treatment of infectious diseases, leading to decreased mortality and increased life expectancy. However, recent years have seen an alarming rise in the number and frequency of antibiotic-resistant Superbugs. The Centers for Disease Control and Prevention (CDC) estimates that over two million antibiotic-resistant infections occur in the United States annually, resulting in approximately 23,000 deaths. Despite the danger to public health, a minimal number of new antibiotic drugs are currently in development or in clinical trials by major pharmaceutical companies. To prevent reverting back to the pre-antibiotic era—when diseases caused by parasites or infections were virtually untreatable and frequently resulted in death—new and innovative approaches are needed to combat the increasing resistance of pathogenic bacteria to antibiotics. *Bacterial Resistance to Antibiotics - From Molecules to Man* examines the current state and future direction of research into developing clinically-useful next-generation novel antibiotics. An internationally-recognized team of experts cover topics including glycopeptide antibiotic resistance, anti-tuberculosis agents, anti-virulence therapies, tetracyclines, the molecular and structural determinants of resistance, and more. Presents a multidisciplinary approach for the optimization of novel antibiotics for maximum potency, minimal toxicity, and appropriated degradability Highlights critical aspects that may relieve the problematic medical situation of antibiotic resistance Includes an overview of the genetic and molecular mechanisms of antibiotic resistance Addresses contemporary issues of global public health and longevity Includes full references, author remarks, and color illustrations, graphs, and charts *Bacterial Resistance to Antibiotics - From Molecules to Man* is a valuable source of up-to-date information for medical practitioners, researchers, academics, and professionals in public health, pharmaceuticals, microbiology, and related fields.

Carbapenem-Resistant Enterobacteriaceae in the Asia Pacific and Beyond Yi-Wei Tang, Barry N. Kreiswirth, Liang Chen, 2019-10-24

Active Site-directed Enzyme Inhibitors Weiping Zheng, 2023-09-13 Our biological system is enriched with enzyme-catalyzed (or enzymatic) reactions that mediate a great multitude of life processes such as gene transcription and metabolism, and the inappropriately up-regulated activity of these enzymatic reactions is a major cause of human diseases

such as cancer and metabolic diseases. Therefore, the inhibitors of enzymatic reactions (generally called enzyme inhibitors) constitute a major class of therapeutic agents on the global drug market. One question would then be how to efficiently design enzyme inhibitors. This handbook is the first of its kind in the field, introducing to its readers in a single book the concepts whose exploitation has been demonstrated to be successful in efficiently furnishing effective active site-directed inhibitors for various enzymatic reactions. The book is organized by different concepts and for each concept there is a delineation of its mode of working and its applications with different types of enzymatic reactions. Active Site-directed Enzyme Inhibitors will help its readers to quickly and efficiently obtain effective active site-directed inhibitors for any of the enzymatic reactions under study without a need to resort to library screening- and biostructure-based techniques. This handbook is ideal as an immediate resource for researchers to consult or for students to supplement their study in medicinal chemistry and related courses.

Human Emerging and Re-emerging Infections, 2 Volume Set Sunit Kumar Singh, 2016-01-26 Emerging and re-emerging pathogens pose several challenges to diagnosis, treatment, and public health surveillance, primarily because pathogen identification is a difficult and time-consuming process due to the “novel” nature of the agent. Proper identification requires a wide array of techniques, but the significance of these diagnostics is anticipated to increase with advances in newer molecular and nanobiotechnological interventions and health information technology. Human Emerging and Re-emerging Infections covers the epidemiology, pathogenesis, diagnostics, clinical features, and public health risks posed by new viral and microbial infections. The book includes detailed coverage on the molecular mechanisms of pathogenesis, development of various diagnostic tools, diagnostic assays and their limitations, key research priorities, and new technologies in infection diagnostics. Volume 1 addresses viral and parasitic infections, while volume 2 delves into bacterial and mycotic infections. Human Emerging and Re-emerging Infections is an invaluable resource for researchers in parasitologists, microbiology, Immunology, neurology and virology, as well as clinicians and students interested in understanding the current knowledge and future directions of infectious diseases.

Antibacterials Jed F. Fisher, Shahriar Mobashery, Marvin J. Miller, 2018-06-28 Medicinal chemistry is both science and art. The science of medicinal chemistry offers mankind one of its best hopes for improving the quality of life. The art of medicinal chemistry continues to challenge its practitioners with the need for both intuition and experience to discover new drugs. Hence sharing the experience of drug research is uniquely beneficial to the field of medicinal chemistry. Drug research requires interdisciplinary team-work at the interface between chemistry, biology and medicine. Therefore, the topic-related series Topics in Medicinal Chemistry covers all relevant aspects of drug research, e.g. pathobiochemistry of diseases, identification and validation of (emerging) drug targets, structural biology, drugability of targets, drug design approaches, chemogenomics, synthetic chemistry including combinatorial methods, bioorganic chemistry, natural compounds, high-

throughput screening, pharmacological in vitro and in vivo investigations, drug-receptor interactions on the molecular level, structure-activity relationships, drug absorption, distribution, metabolism, elimination, toxicology and pharmacogenomics. In general, special volumes are edited by well known guest editors

Surgical Infections, An Issue of Surgical Clinics, E-Book Robert G. Sawyer, 2015-01-01 Editors Robert Sawyer and Tracy Hedrick and authors review the latest in Surgical Infections. Articles will include Bloodstream Infections and Central Line-Associated Bloodstream Infections; Surgical Intervention for Thoracic Infections; Intra-abdominal Infections; Clostridium difficile infection; Urinary Tract Infections; Surgical Site Infections; Prosthetic Joint Infections; Resistant Pathogens, Fungi, and Viruses; Infection Control in the Intensive Care Unit; Pneumonia; Differences Between Murine and Human sepsis; of the intestinal Microbiome and the emerging pathobiome; Advancing Technologies for the Diagnosis and Management of Infections; Upcoming Rules and Benchmarks Affecting the Monitoring and Payment for Surgical Infections; and more!

Metalloproteins and Motor Proteins, 2024-07-05 Metalloproteins and Motor Proteins, Volume 141 focuses on recent advances in studying metalloproteins and motor proteins, along with their roles in different pathologies and drug-resistance. Chapters include Transcriptomic Analysis Reveals Zinc-Mediated Virulence and Pathogenicity in Multidrug-Resistant Acinetobacter baumannii, The Mechanistic Insights into Different Aspects of Promiscuity in Metalloenzymes, Role of Metal ion in ion channel Mechanisms, A model of microtubule depolymerization by kinesin-8 motor proteins, Metalloproteins and metalloproteomics in health and disease, Decoding Genetic and Pathophysiological Mechanisms in Amyotrophic Lateral Sclerosis and Primary Lateral Sclerosis: A Comparative Study of Differentially Expressed Genes and Implicated Pathways in Motor Neuron Disorders, and much more. Additional chapters cover Exploring the effect of disease causing mutations in metal binding sites of human ARSA in Metachromatic Leukodystrophy, Role of transmembrane proteins in regulating metalloproteins and motor proteins in human cancer, Role of transmembrane proteins in metalloproteins and motor proteins in human neurogenesis, Role of transmembrane proteins in metalloproteins and motor proteins in human aging, Vesicle transport of metalloproteinases, Motor proteins and spermatogenesis, and much more. - Integrates experimental and computational methods for studying structure and function of metalloproteins and motor proteins and their implication in drug design - Presents timely chapters written by well-renowned authorities in their field - Contains a high number of high quality illustrations, figures, and tables and targets a very wide audience of specialists, researchers, and students

Novel Enzyme and Whole-Cell Biocatalysts Anwar Sunna, Richard Daniellou, 2020-11-04 The concept of a circular economy relies on waste reduction, valorization, and recycling. Global trends for “green” synthesis of chemicals have positioned the field of enzyme technology and biocatalysis (multi-enzymes and whole-cells) as an alternative for the synthesis of more social- and environmentally-responsible bio-based chemicals. Recent advances in synthetic biology, computational

tools, and metabolic engineering have supported the discovery of new enzymes and the rational design of whole-cell biocatalysts. In this book, we highlight these current advances in the field of biocatalysis, with special emphasis on novel enzymes and whole-cell biocatalysts for applications in several industrial biotechnological applications.

The multiple roles of antibiotics and antibiotic resistance in nature Fiona Walsh, 2015-05-15 Antibiotics and antibiotic resistance have most commonly been viewed in the context of human use and effects. However, both have co-existed in nature for millennia. Recently the roles of antibiotics and antibiotic resistance genes have started to be discussed in terms of functions other than bacterial inhibition and protection. This special topic will focus on both the traditional role of antibiotics as warfare mechanisms and their alternative roles and uses within nature such as antibiotics as signals or communication mechanisms, antibiotic selection at low concentrations, the non-specific role of resistance mechanisms in nature: e.g. efflux pumps, evolution of antibiotic resistance and the role of persisters in natural antibiotic resistance.

Globally or Regionally Spread of Epidemic Plasmids Carrying Clinically Important Resistance Genes: Epidemiology, Molecular Mechanism, and Drivers Jian-Hua Liu, Sheng Chen, Vincent Burrus, 2022-02-10

Antibiotics and Antibiotics Resistance Genes in Soils Muhammad Zaffar Hashmi, Vladimir Strezov, Ajit Varma, 2017-11-03 This book summarizes the current state of knowledge regarding antibiotics and antibiotics resistance genes (ARGs) in the soil environment. It covers a wide range of topics to help readers understand antibiotics and ARGs in soils, the risks they pose for the environment, and options for effective control. In addition, it presents a range of essential tools and methodologies that can be used to address antibiotics and ARGs in a consistent, efficient, and cost-effective manner. Gathering contributions by international experts, the book addresses both theoretical aspects and practical applications. The topics discussed include antibiotics-producing microorganisms; the routes of entry and fate of antibiotics and resistance genes; biomonitoring approaches; dissemination of ARGs in soils; risk assessment; the impact of antibiotics and ARGs on the soil microbial community and other biota; bioremediation and biodegradation approaches; and soil management strategies for antibiotics and ARG-contaminated soils. As such, the book will be of interest to students, researchers and scholars in environmental science and engineering, toxicology, the medical and pharmaceutical sciences, environmental biotechnology, soil sciences, microbial ecology and plant biotechnology. Readers and Journals: 1. This new volume on antibiotics and antibiotics resistance genes (ARGs) in the soil environment will be of interest to students, researchers and scholars in environmental science and engineering, toxicology, the medical and pharmaceutical sciences, environmental biotechnology, soil sciences, microbial ecology and plant biotechnology. 2. The book will provide government authorities all over the world with effective strategies for the management of antibiotics and antibiotics resistance genes (ARG)-contaminated soil. 3. Gathering contributions by international experts, the book addresses both theoretical aspects and practical applications.

Infectious Disease Epidemiology Kenrad E. Nelson, Carolyn Masters Williams, 2014 Now in its third edition, this comprehensive volume is recognized as the most authoritative review of the epidemiology of infectious disease. Divided into five sections that cover methods in infectious disease epidemiology, airborne transmission, diarrheal diseases, blood and body fluid as a reservoir of infectious diseases, vectorborne and parasite disease, the book includes 'state-of-the-art' chapters on methodological issues, pathogenesis, and comprehensive reviews of virtually all known infectious diseases. New to the Third Edition: 1. All chapters updated with significant new information 2. HIV chapter completely updated including results of trials of Male Circumcision, HIV-vaccines, female condoms, Microbicides and new drugs 3. New chapter on Infectious Disease Eradication (e.g. Smallpox, Polio, Measles) 4. New chapter on Pneumococcal Disease (with material on *S. pneumonia* moved from the ARI and Vaccine chapters) 5. Influenza chapter updated with new material on H1/N1 and control/prevention of Influenza during a pandemic 6. Consolidation of material from the chapters on Outbreaks and Surveillance. 7. Nosocomial Infection chapter is shortened and updated with a new section on nosocomial/community MRSA 8. Malaria chapter updated with new information on bed nets, prophylactic therapy of pregnant women and other high risk populations as well as new detailed examination of the organization, implementation, and accomplishments of the WHO--Roll-Back Malaria program; and a new description of the 5th Human Malaria parasite--*P. knowlesi* and its Epidemiology. 9. STD chapter is updated with new information on the rapid diagnosis of STDs using urine PCR-methods as well as new information on partner prophylactic treatment of STDs 10. New information in Chickengunya virus, Enterovirus 71, Nipah and Hendra virus infections to the Emerging infections chapter. 11. Hepatitis chapter is revised with new information on HEV virus 12. New brief chapter discussing the various models of behavioral change that are useful in Infectious Diseases research--e.g. Health Belief model etc.

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