



# Microbial Multidrug Efflux

**C.I. Kado, J.H. Crosa**



## **Microbial Multidrug Efflux:**

Efflux-Mediated Antimicrobial Resistance in Bacteria Xian-Zhi Li, Christopher A. Elkins, Helen I. Zgurskaya, 2016-11-09

This book written by leading international experts provides a comprehensive current examination of transport mediated antimicrobial resistance As a particularly powerful mechanism of multidrug resistance an in depth examination of efflux pumps is conducted with bacteria of major public health concern including Enterobacteriaceae Acinetobacter Neisseria Pseudomonas staphylococci and mycobacteria The content spans structural biochemistry and transport mechanisms of the major transporter families and considers individual drug efflux systems across various Gram positive and Gram negative species Genomic analysis of efflux pump distribution and their contribution to clinically relevant resistance are a major focus of the text Moreover interplay between drug efflux pumps and other key resistance mechanisms such as intrinsic drug impermeability inactivation and target alterations are discussed as well as their molecular expression based regulation and physiological functions beyond resistance involving biofilms stress response and pathogenicity Finally strategies are addressed to target this drug resistance mechanism with novel antimicrobials or drug inhibitor adjuvants

**Microbial Multidrug Efflux** Ian T. Paulsen, Kim Lewis, 2002 Resistance of microorganisms to multiple antibiotics and other drugs is a major problem throughout the world Multidrug efflux is a process whereby a single transporter can remove a broad range of substrates from the cell thereby causing resistance to substances such as drugs and antibiotics This book provides the first comprehensive overview of this phenomenon in microorganisms and contains reviews of the current research in this important field With contributions from Internationally renown authors topics covered include genomic analysis of drug efflux pumps the large scale knock out of drug transporters structure function analysis of drug pumps the inhibition of the efflux pump as a clinical approach and much more An essential text for all scientists with an interest in drug and antibiotic resistance in a range of different microorganisms

**Bacterial Multidrug Exporters** Akihito Yamaguchi, Kunihiro Nishino, 2018 *Antiseptic Stewardship* Günter Kampf, 2018-08-25 Various antiseptic agents such as chlorhexidine are used for different applications e g in healthcare veterinary medicine animal production and household products including cosmetics However not all antiseptic agents provide significant health benefits especially in some products used in human medicine alcohol based hand rubs antimicrobial soaps While some products antimicrobial soaps surface disinfectants instrument disinfectants wound antiseptics may contain one or more biocidal agents with a comparable antimicrobial efficacy but large differences in their potential for microbial adaptation and tolerance An increased bacterial resistance has been described for various antimicrobial agents sometimes including a cross resistance to antibiotics The book is the first comprehensive reference resource on antiseptic agents including their efficacy natural and acquired resistance adaptation and cross resistance It also discusses their and appropriate use in terms of a balance between their efficacy and the risk of acquired bacterial resistance tolerance Focusing on human and veterinary medicine and household products it helps readers

make informed decisions concerning antiseptic products based on their composition The book contributes to reduce any unnecessary selection pressure towards emerging pathogens and to keep the powerful antiseptic agents for all those applications that have a clear benefit e g reduction of healthcare associated infection *Mechanisms of antibiotic resistance* Jun Lin, Kunihiro Nishino, Marilyn C. Roberts, Marcelo Tolmasky, Rustam I. Aminov, Lixin Zhang, 2015-06-01 Antibiotics represent one of the most successful forms of therapy in medicine But the efficiency of antibiotics is compromised by the growing number of antibiotic resistant pathogens Antibiotic resistance which is implicated in elevated morbidity and mortality rates as well as in the increased treatment costs is considered to be one of the major global public health threats [www.who.int/drugresistance/en](http://www.who.int/drugresistance/en) and the magnitude of the problem recently prompted a number of international and national bodies to take actions to protect the public [http://ec.europa.eu/dgs/health\\_consumer/docs/road\\_map\\_amr\\_en.pdf](http://ec.europa.eu/dgs/health_consumer/docs/road_map_amr_en.pdf) [http://www.who.int/drugresistance/amr\\_global\\_action\\_plan/en](http://www.who.int/drugresistance/amr_global_action_plan/en) [http://www.whitehouse.gov/sites/default/files/docs/carb\\_national\\_strategy.pdf](http://www.whitehouse.gov/sites/default/files/docs/carb_national_strategy.pdf) Understanding the mechanisms by which bacteria successfully defend themselves against the antibiotic assault represent the main theme of this eBook published as a Research Topic in Frontiers in Microbiology section of Antimicrobials Resistance and Chemotherapy The articles in the eBook update the reader on various aspects and mechanisms of antibiotic resistance A better understanding of these mechanisms should facilitate the development of means to potentiate the efficacy and increase the lifespan of antibiotics while minimizing the emergence of antibiotic resistance among pathogens *Antibiotic Drug Resistance* José-Luis Capelo-Martínez, Gilberto Igrejas, 2019-08-20 This book presents a thorough and authoritative overview of the multifaceted field of antibiotic science offering guidance to translate research into tools for prevention diagnosis and treatment of infectious diseases Provides readers with knowledge about the broad field of drug resistance Offers guidance to translate research into tools for prevention diagnosis and treatment of infectious diseases Links strategies to analyze microbes to the development of new drugs socioeconomic impacts to therapeutic strategies and public policies to antibiotic resistance prevention strategies *Molecular Genetics of Mycobacteria* Graham F. Hatfull, William R. Jacobs, Jr., 2014-09-02 A comprehensive collection of perspectives by experts in mycobacterial molecular biology Mycobacterium tuberculosis causes one in four avoidable deaths in the developing world and kills more adults than malaria AIDS and all tropical diseases combined Tuberculosis was named a global health emergency by the World Health Organization a distinction no other disease has received Although the study of mycobacterial genetics has expanded dramatically with new investigations into mycobacterial growth replication metabolism physiology drug susceptibility and virulence most of the problems in tuberculosis control that existed in 2000 remain today Advances in our understanding of mycobacterial genetics have been reflected in exciting recent developments New diagnostic approaches can identify drug resistance within a few hours promising new drugs are progressing through the pipeline and into the clinic and a range of newly developed vaccines are being evaluated It is an exciting time as the fruits of 30 years of intensive genetic investigation are finally beginning to

emerge Written by leading experts in the field Molecular Genetics of Mycobacteria Second Edition Discusses key areas of current research in mycobacterial genetics Explains the genetics of the physiology metabolism and drug sensitivities of M tuberculosis Presents genetic approaches for manipulating M tuberculosis This book is an invaluable resource for anyone interested in the molecular genetics and molecular biology of mycobacteria Biofilm Infections Thomas Bjarnsholt, Peter Østrup Jensen, Claus Moser, Niels Høiby, 2014-10-11 This book will cover both the evidence for biofilms in many chronic bacterial infections as well as the problems facing these infections such as diagnostics and treatment regimes A still increasing interest and emphasis on the sessile bacterial lifestyle biofilms has been seen since it was realized that that less than 0.1% of the total microbial biomass lives in the planktonic mode of growth The term was coined in 1978 by Costerton et al who defined the term biofilm for the first time In 1993 the American Society for Microbiology ASM recognised that the biofilm mode of growth was relevant to microbiology Lately many articles have been published on the clinical implications of bacterial biofilms Both original articles and reviews concerning the biofilm problem are available Virulence Mechanisms of Bacterial Pathogens Indira T. Kudva, Nancy A. Cornick, Paul J. Plummer, Qijing Zhang, Tracy L. Nicholson, John P. Bannantine, Bryan H. Bellaire, 2020-07-10 Ground breaking overview of an enduring topic Despite the use of antibiotics bacterial diseases continue to be a critical issue in public health and bacterial pathogenesis remains a tantalizing problem for research microbiologists This new edition of Virulence Mechanisms of Bacterial Pathogens broadly covers the knowledge base surrounding this topic and presents recently unraveled bacterial virulence strategies and cutting edge therapies A team of editors led by USDA scientist Indira Kudva compiled perspectives from experts to explain the wide variety of mechanisms through which bacterial pathogens cause disease the host interface host cell enslavement and bacterial communication secretion defenses and persistence A collection of reviews on targeted therapies rounds out the seven sections of this unique book The new edition provides insights into some of the most recent advances in the area of bacterial pathogenesis including how metabolism shapes the host pathogen interface interactions across species and genera mechanisms of the secretion systems evasion survival and persistence mechanisms new therapies targeting various adaptive and virulence mechanisms of bacterial pathogens Written to promote discussion extrapolation exploration and multidimensional thinking Virulence Mechanisms of Bacterial Pathogens serves as a textbook for graduate courses on bacterial pathogenesis and a resource for specialists in bacterial pathogenicity such as molecular biologists physician scientists infectious disease clinicians dental scientists veterinarians molecular biologists industry researchers and technicians **Molecular Mechanisms of Bacterial Virulence** C.I. Kado, J.H. Crosa, 2012-12-06 The growing body of information on bacteria pathogenic for humans mammals and plants generated within the past ten years has shown the interesting conservation of newly identified genes that play a direct role in the pathogenic mechanism In addition to these genes there are also genes that confer host specificities and other traits important in pathogenesis on these pathogens In this volume we have organized the subject areas to best fit the

concept on the way bacterial pathogens recognize interact and invade the host on the regulation of genes involved in virulence on the genes involved in the elaboration of toxins and other pathogenic components such as iron sequestering proteins and on the mechanisms of circumventing the host defense systems These areas are divided into Sections Section I covers the first step when the pathogen seeks its host and Sections II through VI cover subsequent steps leading to pathogenesis while avoiding host defenses We conclude this work with a chapter summarizing information on examples of virulence mechanisms that are highly conserved

#### **Microbial Endocrinology** Mark Lyte,Primrose P.E.

Freestone,2010-04-06 Microbial endocrinology represents a newly emerging interdisciplinary field that is formed by the intersection of the fields of neurobiology and microbiology This book will introduce a new perspective to the current understanding not only of the factors that mediate the ability of microbes to cause disease but also to the mechanisms that maintain normal homeostasis The discovery that microbes can directly respond to neuroendocrine hormones as evidenced by increased growth and production of virulence associated factors provides for a new framework with which to investigate how microorganisms interface not only with vertebrates but also with invertebrates and even plants The reader will learn that the neuroendocrine hormones that one most commonly associates with mammals are actually found throughout the plant insect and microbial communities to an extent that will undoubtedly surprise many and most importantly how interactions between microbes and neuroendocrine hormones can influence the pathophysiology of infectious disease

#### **Candida Albicans**

Rajendra Prasad,2012-12-06 Candida which was discovered more than a century ago as a causative organism of oral thrush is now thought to potentially infect almost every tissue of the human body Although we still do not have a safe anti candida drug the growing pace of progress of research on Candida albicans holds promise that a breakthrough is imminent Though many monographs and articles on candida and candidoses have appeared in recent years they mostly cover the clinical aspects This particular text however explains the more basic features of candida including the molecular genetics molecular biology and immunology of the cell wall the molecular basis of morphogenesis and the structure and function of the plasma membrane The role of anti candida drugs and their mechanism of action are also discussed

#### **Bacterial Biofilms** Sadik

Dincer,Melis Sümengen Özdenefe,Afet Arkut,2020-10-07 This book examines biofilms in nature Organized into four parts this book addresses biofilms in wastewater treatment inhibition of biofilm formation biofilms and infection and ecology of biofilms It is designed for clinicians researchers and industry professionals in the fields of microbiology biotechnology ecology and medicine as well as graduate and postgraduate students

#### **Biomaterials for Cancer Therapeutics** Kinam

Park,2013-11-23 Cancer can affect people of all ages and approximately one in three people are estimated to be diagnosed with cancer during their lifetime Extensive research is being undertaken by many different institutions to explore potential new therapeutics and biomaterials technology is now being developed to target treat and prevent cancer This unique book discusses the role and potential of biomaterials in treating this prevalent disease The first part of the book discusses the

fundamentals of biomaterials for cancer therapeutics Chapters in part two discuss synthetic vaccines proteins and polymers for cancer therapeutics Part three focusses on theranosis and drug delivery systems whilst the final set of chapters look at biomaterial therapies and cancer cell interaction This extensive book provides a complete overview of the latest research into the potential of biomaterials for the diagnosis therapy and prevention of cancer Biomaterials for cancer therapeutics is an essential text for academics scientists and researchers within the biomedical industry and will also be of interest to clinicians with a research interest in cancer therapies and biomaterials A complete overview of the latest research into the potential of biomaterials for the diagnosis therapy and prevention of cancer Discusses the fundamentals of biomaterials for cancer therapeutics Discusses synthetic vaccines proteins and polymers for cancer therapeutics

**Model Organisms for Microbial Pathogenesis, Biofilm Formation and Antimicrobial Drug Discovery** Busi Siddhardha, Madhu Dyavaiah, Asad Syed, 2020-03-29 This book provides essential insights into microbial pathogenesis host pathogen interactions and the anti microbial drug resistance of various human pathogens on the basis of various model organisms The initial sections of the book introduce readers to the mechanisms of microbial pathogenesis host pathogen interactions anti microbial drug resistance and the dynamics of biofilm formation Due to the emergence of various microbial resistant strains it is especially important to understand the prognosis for microbial infections disease progression profiles and mechanisms of resistance to antibiotic therapy in order to develop novel therapeutic strategies In turn the second part of the book presents a comparative analysis of various animal models to help readers understand microbial pathogenesis host pathogen interactions anti microbial drug discovery anti biofilm therapeutics and treatment regimes Given its scope the book represents a valuable asset for microbiologists biotechnologists medical professionals drug development researchers and pharmacologists alike

Key Heterocycle Cores for Designing Multitargeting Molecules Om Silakari, 2018-06-11 Key Heterocycle Cores for Designing Multitargeting Molecules provides a helpful overview of current developments in the field Following a detailed introduction to the manipulation of heterocycle cores for the development of dual or multitargeting molecules the book goes on to describe specific examples of such developments focusing on compounds such as Benzimidazole Acridine Flavones Thiazolidinedione and Oxazoline Drawing on the latest developments in the field this volume provides a valuable guide to current approaches in the design and development of molecules capable of acting on multiple targets Adapting the heterocyclic core of a single target molecule can facilitate its development into an agent capable of acting on multiple targets Such multi targeting drugs have the potential to become essential components in the design of novel holistic treatment plans for complex diseases making the design of such active agents an increasingly important area of research Emphasizes the chemical development of heterocyclic nuclei from single to multitargeting molecules Provides chapter by chapter coverage of the key heterocyclic compounds used in synthesizing multitargeting agents Outlines current trends and future developments in multitarget molecule design for the treatment of various diseases

**Public Health Mycobacteriology** Patricia T.

Kent,1985      *Antimicrobial Resistance in Bacteria of Animal Origin* Frank M. Aarestrup,2006-01 Antimicrobial Resistance in Bacteria of Animal Origin comprehensively examines the current research on antimicrobial resistance in the main veterinary and zoonotic pathogens including resistance to disinfectants and metals used in agriculture      *Resistance of Pseudomonas Aeruginosa* Michael Robert Withington Brown,1975



## **Microbial Multidrug Efflux** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Microbial Multidrug Efflux**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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