



Sgessentials Of Microbiology

Mahendra Rai,Michael Chikindas



Sgessentials Of Microbiology:

Essential Microbiology Raul J. Cano, 1988-01-01 *Decontamination of Fresh and Minimally Processed Produce* Vicente M. Gómez-López, 2012-05-01 Attempts to provide safer and higher quality fresh and minimally processed produce have given rise to a wide variety of decontamination methods each of which have been extensively researched in recent years. *Decontamination of Fresh and Minimally Processed Produce* is the first book to provide a systematic view of the different types of decontaminants for fresh and minimally processed produce. By describing the different effects microbiological, sensory, nutritional and toxicological of decontamination treatments, a team of internationally respected authors reveals not only the impact of decontaminants on food safety but also on microbial spoilage, vegetable physiology, sensory quality, nutritional and phytochemical content and shelf life. Regulatory and toxicological issues are also addressed. The book first examines how produce becomes contaminated, the surface characteristics of produce related to bacterial attachment, biofilm formation and resistance, and sublethal damage and its implications for decontamination. After reviewing how produce is washed and minimally processed, the various decontamination methods are then explored in depth in terms of definition, generation devices, microbial inactivation mechanisms and effects on food safety. Decontaminants covered include chlorine, electrolyzed oxidizing water, chlorine dioxide, ozone, hydrogen peroxide, peroxyacetic acid, essential oils and edible films and coatings. Other decontamination methods addressed are biological strategies: bacteriophages, protective cultures, bacteriocins and quorum sensing, and physical methods: mild heat, continuous UV light, ionizing radiation and various combinations of these methods through hurdle technology. The book concludes with descriptions of post decontamination methods related to storage such as modified atmosphere packaging, the cold chain and modeling tools for predicting microbial growth and inactivation. The many methods and effects of decontamination are detailed, enabling industry professionals to understand the available state of the art methods and select the most suitable approach for their purposes. The book serves as a compendium of information for food researchers and students of pre and postharvest technology, food microbiology and food technology in general. The structure of the book allows easy comparisons among methods and searching information by microorganism, produce and quality traits.

Natural Antimicrobials in Food Safety and Quality Mahendra Rai, Michael Chikindas, 2011 The demands of producing high quality, safe, pathogen free food rely increasingly on natural sources of antimicrobials to inhibit food spoilage organisms and food borne pathogens and toxins. Discovery and development of new antimicrobials from natural sources for a wide range of application requires that knowledge of traditional sources for food antimicrobials is combined with the latest technologies in identification, characterization and application. This book explores some novel natural sources of antimicrobials as well as the latest developments in using well known antimicrobials in food. Covering antimicrobials derived from microbial sources: bacteriophages, bacteria, algae, fungi, animal derived products, milk proteins, chitosan, reduction of biogenic amines, plants and plant products, essential oils, phytochemicals, bioactive compounds, this book

covers the development and use of natural antimicrobials for processed and fresh food products New and emerging technologies concerning antimicrobials are also discussed *Essential Oils*, 2022-06-23 Over the years natural products such as essential oils have been gaining more and more prominence due to their perceived health benefits Plants rich in essential oils represent a viable source of biomolecules for use in the most varied human activities such as agricultural cosmetic and pharmaceutical applications Essential oils are natural volatile fractions extracted from aromatic plants that are formed by classes of substances such as fatty acid esters mono and sesquiterpenes phenylpropanoids and aldehyde alcohols and in some cases aliphatic hydrocarbons among others In this context this book includes twelve chapters that present new information on the extraction and application of essential oils in various industrial segments It is divided into three sections that discuss the general concepts of essential oils and techniques for their extraction topics in food science and technology and essential oils and their pharmacological properties in various activities and applications **Aromatherapy for Health Professionals** Len Price, 2007-01-01 Providing an introduction to aromatherapy as practised in modern health care settings and information for the health professional who wants to learn about the subject this book provides the in depth knowledge needed to begin using essential oils in the practice environment *Handbook of Herbs and Spices* K. V. Peter, 2004-03-23 Together with its companion volume Handbook of herbs and spices Volume 2 provides a comprehensive and authoritative coverage of key herbs and spices Chapters on individual plants cover such issues as description and classification production chemical structure and properties potential health benefits uses in food processing and quality issues Authoritative coverage of more than 50 major herbs and spices Provides detailed information on chemical structure cultivation and definition Incorporates safety issues production main uses health issues and regulations **Science and Technology Against Microbial Pathogens** A. Méndez-Vilas, 2011 Antimicrobial susceptibility profile and effect of stem bark extracts of *Curtisia dentata* on multi drug resistant verotoxic *Escherichia coli* and *Acinetobacter* spp isolates obtained from water and wastewater samples Hamuel James Doughari und weitere Antimicrobial utilization in intensive care units of a private tertiary care hospital Pramila Tiwari Vani Yadav and Shilpi Singh Bacterial clearance from blood in mice infected by *S pneumoniae* penicillin MIC 16 ug/ml presenting specific IgG non protective levels and treated with sub therapeutic regimens of cefditoren a highly bound cephalosporin Fabio Cafini und weitere Characterisation of methicillin resistant *Staphylococcus aureus* isolates from hospitalised patients Vladimir Kmet Daniela Ohlasova and Milan Niks Characterization of methicillin resistant coagulase negative *Staphylococci* isolates from blood cultures in a Brazilian University Hospital Valeria Cataneli Pereira and Maria de Lourdes Ribeiro de Souza da Cunha Control of bacterial contamination in boar semen doses J M Morrell and Margareta Wallgren Diffusion of extended spectrum B lactamase producing *Enterobacter cloacae* in a kidney transplantation unit S Hammami und weitere Effect of antifungal agents on non *Candida albicans* *Candida* species enzymatic activity M Negri und weitere Effect of chitosan nisin and storage time on the growth of *Listeria innocua* and *Shewanella putrefaciens* in

fish homogenates L I Schelegueda M F Gliemmo and C A Campos ESBL producing Enterobacteriaceae in the northern Portugal antimicrobial susceptibility and molecular epidemiology R Fernandes and C Prudencio Observations on the antimicrobial susceptibility of *Staphylococcus pseudintermedius* following the introduction of cefovecin for clinical use in Europe Y Chaudhry A Robinson and K S Godinho Oxacillin resistance among *Staphylococcus aureus* isolated from peritoneal dialysis related peritonitis C H Camargo und weitere Resistance detection and susceptibility profile in *Staphylococcus* spp isolated from patients with urinary tract infection UTI Adriano Martison Ferreira und weitere Resistance distribution profile of MBL ESBL and multidrug resistant Gram negatives isolated at a tertiary care hospital in India K H Bhutada and V R Shende

Handbook of Seafood Quality, Safety and Health Applications Cesaretti Alasalvar, Kazuo Miyashita, Fereidoon Shahidi, Udaya Wanasundara, 2011-06-15 The global market for seafood products continues to increase year by year Food safety considerations are as crucial as ever in this sector and higher standards of quality are demanded even as products are shipped greater distances around the world The current global focus on the connection between diet and health drives growth in the industry and offers commercial opportunities on a number of fronts There is great interest in the beneficial effects of marine functional compounds such as omega 3 polyunsaturated fatty acids Seafoods are well known as low calorie foods and research continues into the nutritional effects on for example obesity and heart disease In addition by products of marine food processing can be used in nutraceutical applications This book is a resource for those interested in the latest advances in the science and technology of seafood quality and safety as well as new developments in the nutritional effects and applications of marine foods It includes chapters on the practical evaluation of seafood quality novel approaches in preservation techniques flavour chemistry and analysis textural quality and measurement packaging the control of food borne pathogens and seafood toxins New research on the health related aspects of marine food intake are covered as well as the use of seafoods as sources of bioactives and nutraceuticals The book is directed at scientists and technologists in academia government laboratories and the seafood industries including quality managers processors and sensory scientists

Antibacterial Drug Discovery to Combat MDR Iqbal Ahmad, Shamim Ahmad, Kendra P. Rumbaugh, 2019-11-09 This book compiles the latest information in the field of antibacterial discovery especially with regard to the looming threat of multi drug resistance The respective chapters highlight the discovery of new antibacterial and anti infective compounds derived from microbes plants and other natural sources The potential applications of nanotechnology to the fields of antibacterial discovery and drug delivery are also discussed and one section of the book is dedicated to the use of computational tools and metagenomics in antibiotic drug discovery Techniques for efficient drug delivery are also covered The book provides a comprehensive overview of the progress made in both antibacterial discovery and delivery making it a valuable resource for academic researchers as well as those working in the pharmaceutical industry

Science And Technology Against Microbial Pathogens: Research, Development And Evaluation - Proceedings Of The

International Conference On Antimicrobial Research (Icar2010) Antonio Mendez-vilas, 2011-07-06 The aim of this book is to disseminate the most recent research in science and technology against microbial pathogens presented at the first edition of the ICAR Conference Series ICAR2010 held in Valladolid Spain in November 2010 This volume is a compilation of 86 chapters written by active researchers that offer information and experiences and afford critical insights into anti microbe strategies in a general context marked by the threat posed by the increasing antimicrobial resistance of pathogenic microorganisms Anti is here taken in a wide sense as against cell cycle adhesion or communication and when harmful for the human health infectious diseases chemotherapy etc and industry or economy food agriculture water systems etc The book examines this interesting subject area from antimicrobial resistance superbugs emerging and re emerging pathogens etc to the use of natural products or microbes against microbial pathogens not forgetting antimicrobial chemistry physics and material science Readers will find in a single volume up to date information of the current knowledge in antimicrobial research The book is recommended for researchers from a broad range of academic disciplines that are contributing in the battle against harmful microorganisms not only those more traditionally involved in this research area microbiologists biochemists geneticists clinicians etc but also experimental and theoretical computational chemists physicists or engineers

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