

Topics in Current Genetics

M. J. Schmitt
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(Eds.)

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Microbial Protein Toxins



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Microbial Protein Toxins Topics In Current Genetics

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Microbial Protein Toxins Manfred Schmitt, Raffael Schaffrath, 2004-12-10 Since the initial establishment of Robert Koch's postulates in the nineteenth century microbial protein toxins have been recognized as a major factor of bacterial and fungal virulence. An increasing number of proteins produced and secreted by various bacteria, yeasts, and plants are extremely toxic and most of them developed remarkably intelligent strategies to enter to penetrate and to finally kill a eukaryotic target cell by modifying or blocking essential cellular components. This book describes the strategies employed by protein toxins to render their pro and eukaryotic producers a selective growth advantage over competitors. In providing an up to date overview on the mode of protein toxin actions it accommodates biomedically and biologically relevant toxin model systems. As a result it significantly broadens our perspective on biochemical architecture and molecular play behind the lethal principles of pro and eukaryotic toxins.

Insight and Control of Infectious Disease in Global Scenario Roy Priti, 2012-03-21 This book is projected as a preliminary manuscript in Infectious Disease. It is undertaken to cover the foremost basic features of the articles Infectious Disease and analogous phenomenon have been one of the main imperative postwar accomplishments in the world. The book expects to provide its reader who does not make believe to be a proficient mathematician an extensive preamble to the field of infectious disease. It may immeasurably assist the Scientists and Research Scholars for continuing their investigate workings on this discipline. Numerous productive and precise illustrated descriptions with a number of analyses have been included. The book offers a smooth and continuing evolution from the principally disease oriented lessons to a logical advance providing the researchers with a compact groundwork for upcoming studies in this subject.

Corynebacterium diphtheriae and Related Toxigenic Species Andreas Burkovski, 2013-10-29 *Corynebacterium diphtheriae* is the classical etiological agent of diphtheria and the type strain of the genus *Corynebacterium*. While diphtheria of the respiratory tract became rare with the introduction of vaccination programs in industrialized countries even today several thousand cases per year are reported to the World Health Organization. This shows that diphtheria is not completely eradicated and that reservoirs exist. The book summarizes the latest advances made in understanding *C. diphtheriae* and the closely related species *Corynebacterium ulcerans* and *Corynebacterium pseudotuberculosis*. Topics addressed are genomics of toxigenic corynebacteria, host pathogen interaction, detection, surveillance, and treatment as well as application aspects.

Brewing and Distilling Yeasts Graham G. Stewart, 2018-01-04 This book is an overview considering yeast and fermentation. The similarities and differences between yeasts employed in brewing and distilling are reviewed. The implications of the differences during the production of beer and distilled products, potable and industrial, are discussed. This Handbook includes a review of relevant historical developments and achievements in this field, the basic yeast taxonomy and biology as well as fundamental and practical aspects of yeast cropping, flocculation, handling, storage, and propagation. Yeast stress, vitality, and viability are also addressed together with flavor production, genetic manipulation, bioethanol formation, and

ethanol production by non *Saccharomyces* yeasts and a Gram negative bacterium This information and a detailed account of yeast research and its implications to both the brewing and distilling processes is a useful resource to those engaged in fermentation yeast and their many products and processes

The Comprehensive Sourcebook of Bacterial Protein Toxins Joseph E. Alouf, Daniel Ladant, Michel R. Popoff, 2005-12-20 This book describes the major achievements and discoveries relevant to bacterial protein toxins since the turn of the new century illustrated by the discovery of more than fifty novel toxins many of them identified through genome screening The establishment of the three dimensional crystal structure of more than 20 toxins during the same period offers deeper knowledge of structure activity relationships and provides a framework to understand how toxins recognize receptors penetrate membranes and interact with and modify intracellular substrates Edited by two of the most highly regarded experts in the field from the Institut Pasteur France 14 brand new chapters dedicated to coverage of historical and general aspects of toxinology Includes the major toxins of both basic and clinical interest are described in depth Details applied aspects of toxins such as therapy vaccinology and toolkits in cell biology Evolutionary and functional aspects of bacterial toxins evaluated and summarized Toxin applications in cell biology presented Therapy cancer therapy dystonias discussed Vaccines native and genetically engineered vaccines featured Toxins discussed as biological weapons comprising chapters on anthrax diphtheria ricin etc

Microbial Protein Toxins Manfred Schmitt, Raffael Schaffrath, 2009-09-02 Since the initial establishment of Robert Koch's postulates in the nineteenth century microbial protein toxins have been recognized as a major factor of bacterial and fungal virulence An increasing number of proteins produced and secreted by various bacteria yeasts and plants are extremely toxic and most of them developed remarkably intelligent strategies to enter to penetrate and to finally kill a eukaryotic target cell by modifying or blocking essential cellular components This book describes the strategies employed by protein toxins to render their pro and eukaryotic producers a selective growth advantage over competitors In providing an up to date overview on the mode of protein toxin actions it accommodates biomedically and biologically relevant toxin model systems As a result it significantly broadens our perspective on biochemical architecture and molecular play behind the lethal principles of pro and eukaryotic toxins

Physiology and Genetics Timm Anke, Daniela Weber, 2009-09-18 In the last decade the discipline of mycology has been substantially changed by new research technologies In particular DNA based tools for the investigation of fungal taxonomy signal transduction and regulation and biosynthetic potential have accelerated advances in mycological knowledge This volume presents a selection of exciting issues on basic and applied aspects of fungal physiology and genetics In 18 chapters renowned experts provide an overview of traditional as well as current and future aspects of potential application of fungi in biotechnology The contributions can be used by scientists to keep up to date on the latest developments in the corresponding research area and by students to familiarize themselves with the different topics

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Encyclopedia of Virology

Brian W. J. Mahy, M. H. V. Van Regenmortel, 2008 Covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects this new ed has been extensively revised and updated to reflect the 50 % increase in identified and accepted viruses since 2000 Includes information on avian flu SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism Bacterial Protein Toxins Bernard Witholt, 1992 *Bacterial Protein Toxins* J Freer, 1994 **Current Topics in Microbiology and Immunology** ,1967 *Cornell University Courses of Study* Cornell University, 2007 *Cambridge Scientific Biochemistry Abstracts* ,1985 **Applied and Environmental Microbiology** ,1991 **Microbiology Abstracts** ,1992-04 Zentralblatt für Bakteriologie ,1989 **Undergraduate and Graduate Courses and Programs** Iowa State University, 2009 **The Journal of General Microbiology** ,1992 Contains abstracts of papers presented at meeting of the Society for General Microbiology Biological & Agricultural Index ,1971

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