

Microbial Toxins Molecular And Cellular Biology

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Microbial Toxins Molecular And Cellular

In recent years, enormous progress has been made in our understanding of the molecular and cellular biology of microbial toxins. This has important implications for the development of novel therapeutics such as antimicrobial agents, antitoxins, vaccines etc., and is particularly relevant for toxins that have the potential for use in bioterrorism.

Microbial Toxins: Molecular and Cellular Biology: Proft ...

Microbial Toxins: Molecular and Cellular Biology , edited by Thomas Proft, is a collection of reviews addressing issues associated with bacterial and fungal toxins. The book contains 20 chapters, each dealing with different aspects in this area of current interest and scientific research.

Microbial Toxins. Molecular and Cellular Biology Edited by ...

Microbial Toxins in Foods and Feeds: Cellular And Molecular Modes Of Action Softcover reprint of the original 1st ed. 1990 Edition by V.R. Jr. Dowell (Author) ISBN-13: 978-1461279167

Microbial Toxins in Foods and Feeds: Cellular And ...

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Microbial Toxins: Molecular and Cellular Biology

ISBN: 1904933084 9781904933083: OCLC Number: 70592142: Description: ix, 568 pages : illustrations (some color) ; 24 cm: Contents: Introduction / Joseph E. Alouf --Activation of Secondary Messenger Pathways by ADP-Ribosylation of G-proteins / Michael Jobling and Randall K. Holmes --Microbial Toxins That Modulate the Actin Cytoskeleton / Jianjun Sun, Klaus Aktories, and Joseph T. Barbieri --The ...

Microbial toxins : molecular and cellular biology (Book ...

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Microbial toxins : molecular and cellular biology (Book ...

Microbial Toxins in Foods and Feeds Cellular and Molecular Modes of Action Editors: Dowell, V.R. Jr., Pohland, A.E., Richard, J.L. (Eds.)

Microbial Toxins in Foods and Feeds - Cellular and ...

The term "microbial toxin" is usually reserved by microbiologists for toxic substances produced by microorganisms that are of high molecular weight and have antigenic properties; toxic compounds produced by bacteria that do not fit these criteria are referred to simply as poisons.

Microbial Toxins - an overview | ScienceDirect Topics

Microbial toxins are toxins produced by micro-organisms, including bacteria and fungi. Microbial toxins promote infection and disease by directly damaging host tissues and by disabling the immune system. Some bacterial toxins, such as Botulinum neurotoxins, are the most potent natural toxins known. However, microbial toxins also have important uses in medical science and research.

Microbial toxin - Wikipedia

Microbial Toxins in Foods and Feeds Cellular and Molecular Modes of Action

Microbial Toxins in Foods and Feeds | SpringerLink

Microbial toxins are used as defense molecules and as a general approach of pathogenic bacteria to hinder the immune system of the host by re- leasing these potent virulence factors.

[Book Review: Microbial Toxins: Molecular and Cellular ...

In this review, we highlight the use of microbial toxins by life scientists for permeabilizing cell membranes, targeting cell surface receptors, elucidating intracellular trafficking pathways and signaling mechanisms, and for specifically inactivating DNA and protein functions, amongst others.

Bacterial Toxins: Genetics, Cellular Biology and Practical ...

The host cell membrane attacking toxins of Staphylococcus aureus and their roles beyond host cell lysis. (A) Phagocytosis of invading bacteria is followed by fusing of the phagosome to the lysosome, resulting in destruction of the bacteria. S. aureus alpha (α) and phenol-soluble modulín (PSM) toxins inhibit fusing of the lysosome.

Bacterial toxins: Offensive, defensive, or something else ...

Bacterial pathogens including group A Streptococcus, which causes invasive group A Strep disease, Streptococcus pneumoniae, which causes pneumonia, and Listeria monocytogenes, which causes listeriosis, all produce cholesterol-dependent cytolysins (CDCs). These bacterial toxins can form pores in cell membranes, destroying the cell.

A Deeper Understanding of How Some Bacterial Toxins ...

Bacterial toxins function as virulence factors. Two mechanisms for bacterial toxin action include damage to cellular membranes (A) and inhibition of protein synthesis (B).

Bacterial Toxin - an overview | ScienceDirect Topics

are toxins produced by microorganisms, including bacteria, viruses and fungi. Microbial toxins are important virulence determinants responsible for microbial pathogenicity and/or evasion of the host immune response. Some bacterial toxins, such as

Microbial toxins

Reporting in Cell, the scientists assessed very similar bacterial toxins that cause either diarrhea or fatal toxic shock syndrome. These similar molecules are made by related bacterial pathogens - Paeniciostidium sordellii and Clostridium difficile. The toxins result in very different illnesses by binding to different receptors.

Why Two Similar Bacterial Toxins Cause Different Illnesses ...

Description : Toxins are important virulence determinants responsible for microbial pathogenicity and/or evasion of the host immune response. Understanding the molecular and cellular biology of toxins is critical for the development of new anti-toxin strategies, particularly for those with bioterrorism capability.

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Toxic substances formed in or elaborated by bacteria; they are usually proteins with high molecular weight and antigenicity; some are used as... | Explore the latest full-text research PDFs ...