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damaging DNA whereas others, as for example CNF1, CagA and BFT, impinge on key eukaryotic processes, such as cellular signalling and cell death. These bacterial toxins, together with other less known toxins, mimic carcinogens and tumour promoters.Bacterial protein toxins in human cancersClostridium tetani produces tetanus toxin (TeNT protein), which leads to a fatal condition known as tetanus in many vertebrates (including humans) and invertebrates. Tetrodotoxins. These toxins are produced by vibrio species of bacteria and like to accumulate in marine life such as the pufferfish. These toxins are produced when vibrio bacteria are stressed by changes in temperature and salinity of environment which leads towards production of toxins.Microbial toxin - WikipediaBacterial toxins are virulence factors that manipulate host cell functions and take over the control of vital processes of living organisms to favor microbial infection. Some toxins directly target innate immune cells, thereby annihilating a major branch of the host immune response.Frontiers | Bacterial Toxins as Pathogen Weapons Against ...Bacterial protein toxins, microbial exoproducts, or bacterial protein toxins with microbial exoproducts combined can actually interfere with each pathway of the innate immune system and either initiate or down-regulate inflammatory responses in the course of infection (Merrell and Falkow, 2004; Moese et al., 2002; Vergnolle et al., 2001).Microbial Toxins - an overview | ScienceDirect Topics052182091X - Bacterial Protein Toxins - Role in the Interference with Cell Growth Regulation - Edited by Alistair J Lax Frontmatter/Prelims Bacterial Protein Toxins. Bacterial toxins that act inside cells interact very specifically with key components of the cell, and some even manipulate the cell in subtle ways for their own purposes.Bacterial Protein ToxinsAnthony W. Maresso, ... Joseph T. Barbieri, in The Comprehensive Sourcebook of Bacterial Protein Toxins (Third Edition), 2006. Role of Pseudomonas cytotoxins in pathogenesis. ETA and the type III cytotoxins play complementary roles toward establishing and maintaining P. aeruginosa within the host and ultimately harming the host. Whereas ETA acts at a distance from the site of infection, type III cytotoxins are delivered into host cells by direct contact-mediated injection into the host cell ...Exotoxin - an overview | ScienceDirect TopicsMany bacterial toxins consist of two components, A and B subunits, and are called AB toxins. Subunit B is involved in binding to the target, a specific receptor and subunit A performs the catalytic action on a substrate. Diphtheria toxin and botulinum toxins are AB toxins which contain a translocation component in the binding subunit.Toxins | Special Issue : Bacterial Toxins: Structure ...A specific bacterial pathogen may produce a single exotoxin or multiple exotoxins. Each exotoxin possesses a unique mechanism of action, which is responsible for the elicitation of a unique pathology. Thus, the role of exotoxins in bacterial pathogenesis is unique to each exotoxin.Exotoxin - an overview | ScienceDirect TopicsBacterial Protein Toxins: Role in the Interference with Cell Growth Regulation: 7: Lax, Alistair J.: Amazon.com.au: BooksBacterial Protein Toxins: Role in the Interference with ...Bacterial Protein Toxins: Role in the Interference with Cell Growth Regulation: 7: Lax, Alistair J.: Amazon.sg: Books

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Bacterial Protein Toxins

Bacterial protein toxins translocate across membranes by processes that are still mysterious. Studies on diphtheria toxin have shown that partial unfolding processes play a major role in toxin membrane insertion and translocation. Similar unfolding behaviour is seen with other bacterial toxins.

Bacterial protein toxins and lipids: role in toxin ...

Many bacterial toxins consist of two components, A and B

subunits, and are called AB toxins. Subunit B is involved in binding to the target, a specific receptor and subunit A performs the catalytic action on a substrate. Diphtheria toxin and botulinum toxins are AB toxins which contain a translocation component in the binding subunit.

Bacterial Protein Toxins Role In

Thereby, lipids are obligate partners of bacterial toxins. Introduction Lipids are characterized by their low solubility in water and support important functions in cells, such as metabolic energy storage, protein activation, membrane formation and signalling. Although bacterial protein toxins are essentially hydrophilic molecules,

How bacterial protein toxins enter cells: the role of ...

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A specific bacterial pathogen may produce a single exotoxin or multiple exotoxins. Each exotoxin possesses a unique mechanism of action, which is responsible for the elicitation of a unique pathology. Thus, the role of exotoxins in bacterial pathogenesis is unique to each exotoxin.

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Bacterial protein toxins play an important role in infectious diseases. Several are highly potent human poisons, such as botulinum, tetanus, Shiga, and diphtheria toxins. These toxins are multi-functional proteins that are self-programmed to reach their target organs and/or enter cells.

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Bacterial toxins are potent molecular poisons that are released by bacteria to cause disease. This 2005 book describes how toxins can enter cells to subvert cell function by interfering with the key processes involved in cell growth and division, and the ability of cells to differentiate into specialised cells.

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All bacterial toxins, which globally are hydrophilic proteins, interact first with their target cells by recognizing a surface receptor, which is either a lipid or a lipid derivative, or another compound but in a lipid environment. Intracellular active toxins follow various trafficking pathways, the ...

Bacterial protein toxins and lipids: role in toxin ...

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Bacterial protein toxins, microbial exoproducts, or bacterial protein toxins with microbial exoproducts combined can actually interfere with each pathway of the innate immune system and either initiate or down-regulate inflammatory responses in the course of infection (Merrell and Falkow, 2004; Moese et al., 2002; Vergnolle et al., 2001).

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Some toxins, like CDT and colibactin, directly attack the genome by damaging DNA whereas others, as for example CNF1, CagA and BFT, impinge on key eukaryotic processes, such as cellular signalling and cell death. These bacterial toxins, together with other less known toxins, mimic carcinogens and tumour promoters.

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Bacterial toxins are virulence factors that manipulate host cell functions and take over the control of vital processes of living organisms to favor microbial infection. Some toxins directly target innate immune cells, thereby annihilating a major branch of the host immune response.

Bacterial protein toxins in human cancers

Clostridium tetani produces tetanus toxin (TeNT protein), which leads to a fatal condition known as tetanus in many vertebrates (including humans) and invertebrates. Tetrodotoxins. These toxins are produced by vibrio species of bacteria and like to accumulate in marine life such as the pufferfish. These toxins are produced when vibrio bacteria are stressed by changes in temperature and salinity of environment which leads towards production of toxins.

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Lipids are characterized by their low solubility in water and support important functions in cells, such as metabolic energy storage, protein activation, membrane formation and signalling. Although bacterial protein toxins are essentially hydrophilic molecules, they interact with cell lipids, at least during one step of their mode of action.

Most exotoxins act at tissue sites remote from the original point of bacterial invasion or growth. However, some bacterial exotoxins act at the site of pathogen colonization and may play a role in invasion. BACTERIAL PROTEIN TOXINS. Exotoxins are usually secreted by living bacteria during exponential growth.

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