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And Selected
Topics In Virology

Bacterial Toxins And Selected Topics In Virology

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Bacterial Toxins And Selected Topics

Bacterial toxins and
selected topics in
virology. Proceedings
of the XIth Conference
of Charles University
medical faculty held in
Prague on September
27-30, 1966. Patocka F,
John C. PMID: 5620896
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Medical Faculty held in
Prague on September
27-30, 1966. Organized
by the Charles
University Medical
Faculty, Prague and
Czechoslovak Medical
Society J.E. Purkyně,
Section of Microbiology
and Epidemiology..

**Bacterial toxins and
selected topics in
virology ...**

Bacterial toxins,
typically the culprits of
"food poisoning,"

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cause illness by the GI tract's reaction to the toxin when ingested.

The most common examples include *Bacillus* sp., *Campylobacter* sp., *Clostridium* sp., *Salmonella* sp., *Shigella* sp., *Listeria* sp., *E. coli*, and *Staphylococcus* sp.; these organisms are typically responsible for the outbreaks on cruise ships.

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Bacterial Toxins - an overview | Virology

ScienceDirect Topics

Bacterial toxins have been extremely useful in the study of different aspects of cell biology.

So far, CDTs are the only bacterial protein toxins known to induce a subtle DNA damage.

In the field of cell and tumor biology,

regulation of the cell cycle is currently one of the major issues,

and CDT will probably

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be utilized as a tool in such studies.

Bacterial Toxin - an overview | ScienceDirect Topics

Schematic

representation of the four groups of bacterial toxins. Group 1 toxins act by binding receptors on the cell membrane and sending a signal to the cell. Group 2 toxins act by forming pores in the cell membrane,

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perturbing the cell permeability barrier.

ASMscience | 13 **Bacterial Toxins**

Many emerging and reemerging bacterial pathogens synthesize toxins that serve as primary virulence factors. We highlight seven bacterial toxins produced by well-established or newly emergent pathogenic microbes. These toxins, which affect eukaryotic

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cells by a variety of means, include Staphylococcus aureus α -toxin, Shiga toxin, cytotoxic necrotizing factor type 1, Escherichia coli heat-stable toxin, botulinum and tetanus neurotoxins, and S. aureus toxic-shock syndrome toxin.

**Bacterial Toxins:
Friends or Foes? -
Volume 5, Number 2**

...

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Both Gram-positive and Gram-negative bacteria produce exotoxins, some of which are quite poisonous. For example, tetanus is caused by a bacterial toxin produced by *Clostridium tetani* that acts as a neurotoxin. Generally, the severity of symptoms and rate of recovery depends on how the infection occurs.

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**What are Bacterial
Toxins? (with
pictures)**

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

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toxins known.

However, microbial toxins also have important uses in medical science and research. Currently, new methods of detecting bacterial toxins are being developed to better isolate and understand these toxi

Microbial toxin - Wikipedia

Biological agents include bacteria,

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viruses, fungi, other microorganisms and their associated toxins. They have the ability to adversely affect human health in a variety of ways, ranging from relatively mild, allergic reactions to serious medical conditions—even death.

**Biological Agents -
Overview |
Occupational Safety
and** ...

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Toxins and toxin-producing bacteria that are thought to pose major risks to the public are *Bacillus anthracis*, which causes anthrax in humans and animals, *Yersinia pestis*, which is the causative agent of plague, and botulinum toxin. Continued studies on the basic molecular properties of bacterial toxins will provide insight to develop

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novel antitoxin therapies, such as the recent recognition that nontoxic forms of bacterial toxins can act in a dominant-negative manner to neutralize toxin action.

ASMscience | Bacterial Protein Toxins

Bacterial Toxins study guide by jabraham6 includes 167 questions covering vocabulary, terms and more.

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grades.

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The natural habitat of

most of toxigenic

bacteria is the

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environment, and
some of them can grow
and secrete their toxin
(s) in particular
environments, such as
food. Ingestion of
preformed toxin in...

Bacterial Toxins Interactions With Gastrointestinal Mucosa

Numerous bacterial
toxins modify the actin
cytoskeleton,
facilitating bacterial
invasion of host cells,

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antiphagocytosis, or both, and leading to dissemination of the pathogen in the host. Nicotinamide adenine dinucleotide (NAD)-based ADP-ribosylation is a common enzymatic mechanism used by bacterial toxins.

The Comprehensive Sourcebook of Bacterial Protein Toxins ...

This chapter outlines

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the molecular aspects
of bacterial toxins.

Bacterial toxins are
classified into several
families including
exotoxins, pore-
forming toxins,
membrane-acting
toxins, and type-III
secreted cytotoxins.

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Bacterial Toxins in
Dise

Death and long-term
disabilities are
common outcomes of

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acute bacterial meningitis, especially in developing countries, even when highly effective antibiotic therapy is given. Therefore, improvemen...

Corticosteroids for Acute Bacterial Meningitis | NEJM

Bacteria lack a membrane-bound nucleus and other internal structures and are therefore ranked

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among the unicellular life-forms called prokaryotes. Prokaryotes are the dominant living creatures on Earth, having been present for perhaps three-quarters of Earth history and having adapted to almost all available ecological habitats.

**bacteria | Cell,
Evolution, &
Classification |
Britannica**

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Staphylococcal enterotoxin B is one of the most potent bacterial superantigens that exerts profound toxic effects upon the immune system, leading to stimulation of cytokine release and inflammation. It is associated with food poisoning, nonmenstrual toxic shock, atopic dermatitis, asthma, and nasal polyps in humans. Currently,

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there is no treatment
or vaccine available.

ASMscience |
Bacterial Toxins—Staphylococcal Enterotoxin B

Transcytosis of Bacterial Toxins across Mucosal Barriers, p 173-186. In Burns D, Barbieri J, Iglewski B, Rappuoli R (ed), Bacterial Protein Toxins. ASM Press, Washington, DC. doi: 10.1128/978155581789

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