

Bacterial Protein Toxins

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Springer

Bacterial Protein Toxins

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Bacterial Protein Toxins:

The Comprehensive Sourcebook of Bacterial Protein Toxins Joseph E. Alouf, Daniel Ladant, Michel R. Popoff, 2015-05-29

The Comprehensive Sourcebook of Bacterial Protein Toxins Fourth Edition contains chapters written by internationally known and well respected specialists This book contains chapters devoted to individual toxins as well as chapters that consider the different applications of these toxins Considerable progress has been made in understanding the structure function interaction and trafficking into cells as well as mechanism of action of toxins Bacterial toxins are involved in the pathogenesis of many bacteria some of which are responsible for severe diseases in human and animals but can also be used as tools in cell biology to dissect cellular processes or used as therapeutic agents Novel recombinant toxins are already proposed in the treatment of some diseases as well as new vaccines Alternatively certain toxins are also considered as biological weapons or bioterrorism threats Given the multifaceted aspects of toxin research and the multidisciplinary approaches adopted toxins are of great interest in many scientific areas from microbiology virology cell biology to biochemistry and protein structure This new edition is written with a multidisciplinary audience in mind and contains 5 new chapters that reflect the latest research in this area Other chapters have been combined deleted and fully revised as necessary to deliver relevant and valuable content Descriptions of relevant toxins as well as representative toxins of the main bacterial toxin families to allow for a better comparison between them Focused chapters on toxin applications and common properties or general features of toxins

Bacterial Protein Toxins Alistair J. Lax, 2011-04-28 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 These potent toxins described in this 2005 book will be of interest to both microbiologists and cell biologists Some of these toxins are conventional multidomain toxins that are self programmed to enter cells Others are delivered by type III mechanisms often as a package of potent molecules The molecular targets for all these toxins mediate signal transduction and the cell cycle to regulate the crucial processes of cell growth cell division and differentiation Thus these potent toxins are not only responsible for disease but also provide a powerful set of tools with which to interrogate the biology of the cell In addition such toxins may act directly to promote carcinogenesis and hence their study is also of interest in a wider context

The Comprehensive Sourcebook of Bacterial Protein Toxins Joseph E. Alouf, Daniel Ladant, Michel R. Popoff, 2015-06-05

The Comprehensive Sourcebook of Bacterial Protein Toxins Fourth Edition contains chapters written by internationally known and well respected specialists This book contains chapters devoted to individual toxins as well as chapters that consider the different applications of these toxins Considerable progress has been made in understanding the structure function interaction and trafficking into cells as well as mechanism of action of toxins Bacterial toxins are involved in the pathogenesis of many bacteria some of which are responsible for severe diseases in human and animals but can also be used as tools in cell biology to dissect cellular processes or used as therapeutic agents Novel recombinant toxins are already

proposed in the treatment of some diseases as well as new vaccines. Alternatively, certain toxins are also considered as biological weapons or bioterrorism threats. Given the multifaceted aspects of toxin research and the multidisciplinary approaches adopted, toxins are of great interest in many scientific areas from microbiology, virology, cell biology to biochemistry and protein structure. This new edition is written with a multidisciplinary audience in mind and contains 5 new chapters that reflect the latest research in this area. Other chapters have been combined, deleted, and fully revised as necessary to deliver relevant and valuable content.

Bacterial Protein Toxins V2A Solomon Kadis, 2012-12-02. Microbial Toxins A Comprehensive Treatise Volume IIA. Bacterial Protein Toxins provides a comprehensive discussion of various aspects of bacterial toxins. The book's 10 chapters discuss the following: botulinum toxin, tetanus toxin, Clostridium perfringens toxins, types A, B, C, D, and E, cholera toxins, the exotoxin of Shigella dysenteriae, protein toxins from Bordetella pertussis, Salmonella typhimurium, and Escherichia coli, neurotoxins, toxins of Proteus mirabilis, and Listeria monocytogenes toxin. Each chapter covers the nature of the toxin, toxin production and purification, and mode of action.

Bacterial Protein Toxins V3 Thomas C. Montie, 2013-09-11. Bacterial Protein Toxins V3. **Bacterial Toxins** Otto Holst, 2008-02-05. The interest of investigators across a broad spectrum of scientific disciplines has been steadily stimulated by the field of bacterial toxin research, an area that makes use of a large variety of biological, chemical, physicochemical, and medically oriented approaches. Researchers studying bacterial toxins need to be acquainted with all these disciplines in order to work effectively in the field. To date, there has been no published collection offering detailed descriptions of the techniques and methods needed by researchers operating across the field's diverse areas. The present volume, *Bacterial Toxins: Methods and Protocols*, is intended to fill this gap. *Bacterial Toxins: Methods and Protocols* consists of two sections: one on protein toxins (15 chapters) and one on endotoxins (5 chapters). Each section is introduced by an overview article. Chapters 1 and 16. The protocols collected represent state-of-the-art techniques that each have high impact on future bacterial toxin research. All methods are described by authors who have regularly been using the protocol in their own laboratories. Included in each chapter is a brief introduction to the method being described.

Bacterial Protein Toxins K. Aktories, I. Just, 2000-04-26. With contributions by numerous experts. **Bacterial Protein Toxins** Alistair J. Lax, 2005. Bacterial toxins are potent molecular poisons that are released by bacteria to cause disease. This 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.

Sourcebook of Bacterial Protein Toxins Joseph E. Alouf, John H. Freer, 1991. Written by an international team of leading scientists, this volume draws together a wealth of information on the structure, regulation, and activity of bacterial protein toxins. A comprehensive sourcebook on bacterial toxins, *Sourcebook of Bacterial Protein Toxins* is the first book designed to draw together current knowledge on these toxins. The 22 chapters of this book have been written by 44 internationally known specialists who have significantly contributed to the progress in the domains covered. This book will appeal to a wide

readership including microbiologists biochemists cell biologists and physicians It will also arouse the interest of students and scientists in other disciplines who see the power of these fascinating biological agents either as exquisitely specific probes of cellular processes or as extremely potent agents of infectious disease Bacterial protein toxins ,1971

Whispering the Strategies of Language: An Psychological Quest through **Bacterial Protein Toxins**

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