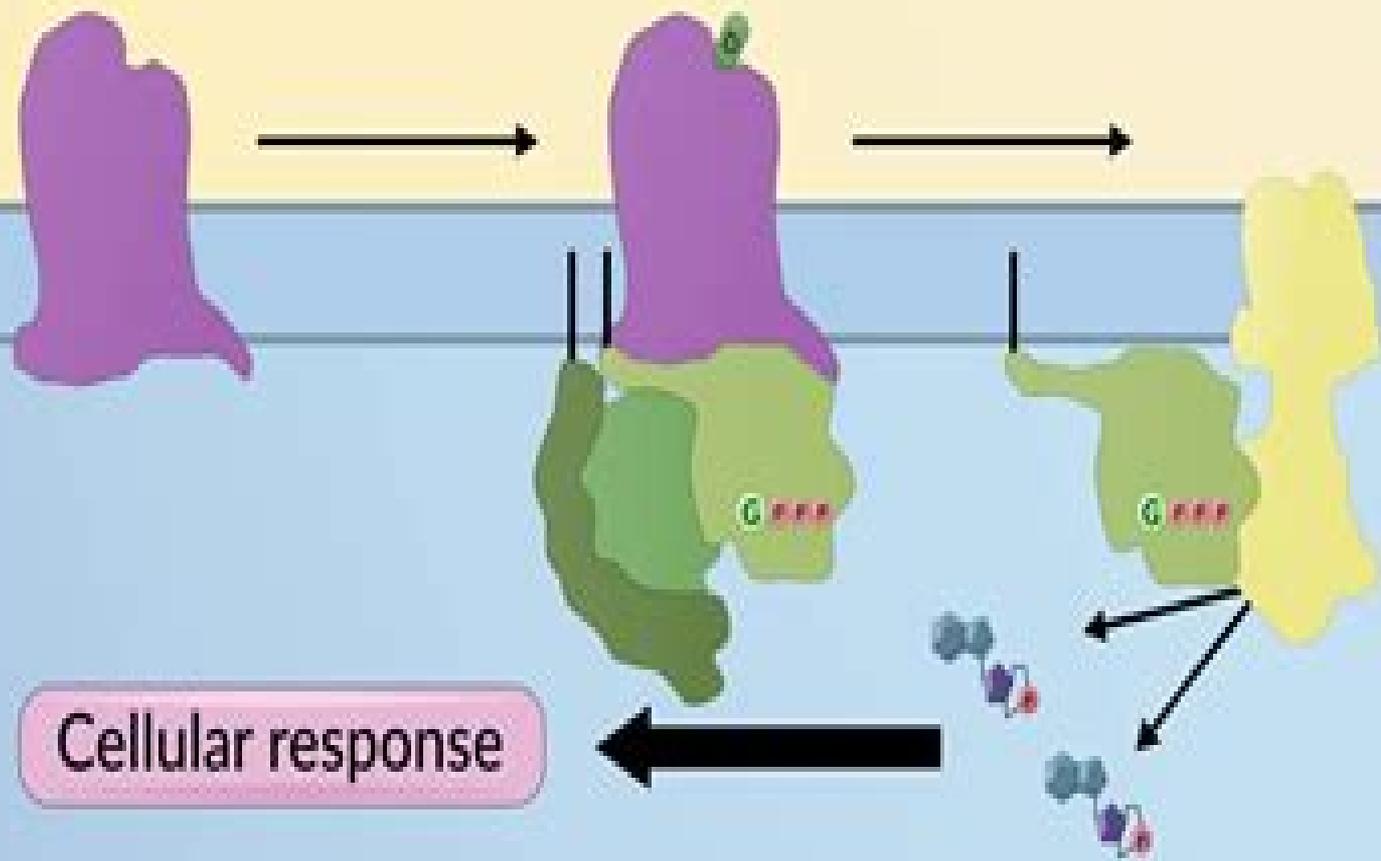


Signal Transduction



Toxins And Signal Transduction

Rino Rappuoli, Cesare Montecucco



Toxins And Signal Transduction:

Toxins and Signal Transduction Yehuda Gutman, Philip Lazarovici, 1997-05-22 Of the multitude of toxins known and the enormous variety of effects they cause of particular interest are those that influence signal transduction Intercellular communication by chemical signals is essential for the functioning of multicellular organisms Many toxins exert their biological effects by interfering with the signal transduction initiated by these chemicals hormones transmitters growth factors and other mediators Up to date information is provided by outstanding experts who discuss the molecular mechanisms involved in the action of many toxins as well as the use of toxins as informative tools with which to study signal transduction and their potential therapeutic usage This volume contains useful information for the experimentalist interested in toxins or in signal transduction as well as for the reader interested in gaining a comprehensive overview of the field The Cellular and Molecular Mechanisms of Toxin Action series will include monographs on signal transduction secretory systems cytoskeleton selective neurotoxicity of natural recombinant and chimeric toxins giving a broader emphasis on the mechanism of action structure function relationship and use of toxins as research tools and their therapeutic applications Guidebook to Protein Toxins and Their Use in Cell Biology Rino Rappuoli, Cesare Montecucco, 1997-05-29 Many bacteria animals and plants produce toxins that can prove lethal to other organisms Toxins are a form of biological warfare that helps their producer to survive and so confer an evolutionary advantage They display an extraordinary range of complexity from the formic acid provided by ants to bacterial proteins composed of thousands of amino acids This Guidebook considers the more complex protein and peptide toxins and groups them according to their mode of action Topics covered include membrane permeabilizing toxins toxins affecting signal transduction and protein synthesis cytoskeleton affecting toxins toxins affecting the immune and inflammatory response This class of biomolecules will be of interest to a wide range of researchers in cell biology neuroscience and toxicology **Secretory Systems and Toxins** Michal Linial, Alfonso Grasso, Phillip Lazarovici, 2003-09-02 This volume deals with the relationships between toxins and one of the most fundamental processes in any living cell the secretory cycle The reader will find up to date information on secretion generated by experts in this fast evolving field In the last decade extensive molecular and cellular studies have exposed the molecular similarity among most known secretory systems In this book secretion is discussed from its basic mode found in yeast up to its most sophisticated version in neurotransmitter release in nerve terminals A comprehensive view on the mode of action of toxins which block secretion but also those which cause hyper activation of exocytosis is provided This book addresses the issue of toxin action by deciphering the molecular and cellular basis of exocytosis in various organisms and cellular contents *Biochemistry of Signal Transduction and Regulation* Gerhard Krauss, 1999 This all new edition of a classic text has been thoroughly revised to keep pace with the rapid progress in signal transduction research With didactic skill and clarity the author relates the observed biological phenomena to the underlying biochemical processes Directed to advanced students teachers and

researchers in biochemistry and molecular biology this book describes the molecular basis of signal transduction regulated gene expression the cell cycle tumorigenesis and apoptosis Book jacket **Special Issue on Emerging Bacterial Toxins** Klaus Aktories, Ingo Just, 2007-05-02 With contributions by numerous experts **From Signal Transduction to Protein Toxins - a Narrative Review about Milestones on the Research Route of C. Difficile Toxins** Klaus Aktories, 2023 Abstract Selected findings about Clostridioides difficile formerly Clostridium difficile toxins are presented in a narrative review Starting with a personal view on research about G proteins adenylyl cyclase and ADP ribosylating toxins in the laboratory of G nter Schultz in Heidelberg milestones of C difficile toxin research are presented with the focus on toxin B TcdB covering toxin structure receptor binding toxin up take and refolding the intracellular actions of TcdB and the treatment of C difficile infection **Cardiovascular Toxicology** Daniel Acosta, 2008-09-04 Focused extensively on the toxic effect of chemicals on the cardiovascular system Cardiovascular Toxicology Fourth Edition is comprised of several key sections beyond cardio and vascular toxicity such as principles of myocardial cell injury and key methods of assessing cardiovascular function New developments include expanded chapter on passive Pore-forming Peptides and Protein Toxins Gianfranco Menestrina, M. Dalla Sera, 2003-01-30 Pore forming proteins and peptides play a central role in bacterial pathogenesis the immune response venomous attack and innate immunity Pore forming Peptides and Protein Toxins describes how natural and synthetic peptides and toxins form pores and ionic channels that cause cell membrane collapse and cell death Written by researchers from around the world it discusses such topics as the channel forming properties of Helicobacter pylori and the role of amyloid peptide channels in the development of amyloid diseases This text provides a multidisciplinary approach to understanding the basic principles and cellular mechanisms of the actions of toxins and their potential use as research tools *Natural and Selected Synthetic Toxins* Anthony T. Tu, 2000 This book presents new studies on natural toxins derived from marine fungal microbial plant and animal origins It includes studies of the toxicological effects of synthetic nerve agents and doping compounds such as serin the nerve gas dispersed in terrorist attacks in Japan in 1995 **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 ADP-ribosylating Toxins and G Proteins Joel Moss, Martha Vaughan, 1990 **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

Review of Medical Microbiology and Immunology Warren Levinson, 2006 Offers a review of the basic and clinical aspects of bacteriology virology mycology parasitology and immunology with an emphasis on the clinical application of microbiology and immunology to infectious diseases This title covers a USMLE style exam with case based questions

Bacterial Protein Toxins Bernard Witholt, 1992 **Chemical Abstracts**, 2002 *Pharmacology of Bacterial Toxins* Friedrich Dörner, Jürgen Drews, 1986 Regulation of Cellular Responses to Toxic Cations by the Stress-activated MAPK in the Fission Yeast Schizosaccharomyces Pombe Ling-Yu Wang, 2006 **Proceedings of the National Academy of Sciences of the United States of America**, 2001 ADP-Ribosylation Reactions R. Alvarez-Gonzalez, 1999-05-31 This special issue of Molecular and Cellular Biochemistry contains twenty two selected research papers and reviews from a total of one hundred and ten presentations given at the 12th International Symposium on ADP ribosylation Reactions From Bacterial Pathogenesis to Cancer held in Cancun Mexico May 10 14 1997 The Symposium was hosted by the Sociedad Mexicana de Bioquímica and was sponsored by the University of North Texas Health Science Center Fort Worth TX USA This volume provides a state of the art source of information for basic scientists and clinicians who are interested in the molecular biochemical and cellular aspects of protein ADP ribose transfer reactions in human health and disease

Microbiological Reviews, 1992

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