

Pore-forming Peptides and Protein Toxins

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Pore Forming Peptides And Protein Toxins

Gregor Anderluh, Robert Gilbert



Pore Forming Peptides And Protein Toxins:

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 **Proteins** Gregor Anderluh, Jeremy H. Lakey, 2011-01-11 Formation of transmembrane pores is a very effective way of killing cells It is thus not surprising that many bacterial and eukaryotic toxic agents are pore forming proteins Pore formation in a target membrane is a complex process composed of several steps proteins need to attach to the lipid membrane possibly aggregate in the plane of the membrane and finally form a pore by inserting part of the polypeptide chain across the lipid bilayer Structural information about toxins at each stage is indispensable for the biochemical and molecular biological studies that aim to derstand how pores are formed at the molecular level There are currently only two *Staphylococcus aureus* and hemolysin E from *Escherichia coli* Therefore what we know about these proteins was obtained over many years of intense experimentation We have nevertheless in the last couple of years witnessed a significant rise in structural information on the soluble forms of pore forming proteins Surprisingly many unexpected similarities with other proteins were noted despite extremely low or insignificant sequence similarity It appears that lipid membrane binding and formation of transmembrane channels is achieved in many cases by a limited repertoire of structures This book describes how several of the important pore forming toxin families achieve membrane bi ing and which structural elements are used for formation of transmembrane pores Our contributors have thus provided the means for a comparative analysis of several unrelated families [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

Handbook of Biologically Active Peptides Abba Kastin, Abba J. Kastin, 2011-04-28 Peptides play a crucial role in many physiological processes including actions as neurotransmitters hormones and antibiotics Research has shown their importance in such fields as neuroscience immunology pharmacology and cell biology The Handbook of Biologically Active Peptides presents for the first time this tremendous body of knowledge in the field of biologically active peptides in one single reference The section editors and contributors represent some of the most sophisticated and distinguished scientists working in basic sciences and clinical medicine The Handbook of Biologically Active Peptides is a definitive all encompassing reference that will be indispensable for individuals ranging from peptide researchers to biochemists cell and molecular biologists neuroscientists pharmacologists and to endocrinologists Chapters are designed to be a source for workers in the field and will enable researchers working in a specific area to examine other related areas with which they would not ordinarily be familiar Chapters are designed to be a source for workers in the field and will enable researchers working in a specific area to examine other related areas that they would not ordinarily be familiar Fascinating relationships described in the book include the presence of some peptides originally found in frog skin that persist in the human human and brain where they can affect food intake and obesity

Protein-Lipid Interactions Lukas K. Tamm, 2006-05-12 In 17 contributions by leading research groups this first comprehensive handbook in the field covers the interactions between proteins and lipids that make the fabric of biological membranes from every angle It examines the relevant thermodynamic and structural issues from a basic science perspective and goes on to discuss biochemical and cell biological processes The book covers physical principles as well as mechanisms of membrane fusion and fission Additionally chapters on bilayer structure and protein lipid interactions as well as on how proteins shape lipids and vice versa membrane penetration by toxins protein sorting and allosteric regulation of signal transduction across membranes make this a valuable information source for researchers in academia and industry

Chimeric Toxins Haya Lorberboum-Galski, Philip Lazarovici, 2002-05-30 Bacteria and plants produce powerful toxins that can cause a variety of diseases some of which are lethal for many animal species The mechanisms of action are common to many of these toxins and represent general pathways for the interaction of a number of biomolecules with target cells such as binding to specific surface receptors internalization

Natural Poisons and Venoms Jan-Peter Hildebrandt, Eberhard Teuscher, Ulrike Lindequist, 2023-07-04 Biogenic toxins are fascinating natural products characterized by an enormous diversity of chemical structures and pharmacological activities They not only pose hazards to humans and animals but they

are important components in the interplay of substances and living beings in nature and moreover important sources for new drugs Numerous images of plants and chemical structural formulas complete the book as well as extensive references for further reading The multivolume reference is an essential resource for physicians veterinarians pharmacists chemists biochemists food chemists and biologists for students in the relevant fields and maybe for interested laymen All aspects of natural toxins based on the latest scientific knowledge are included All aspects of the toxicology of all living organisms and natural foods chemistry action mechanisms symptoms of intoxications The only book arranged on a strictly scientific base according to the biogenetic origin and chemical structure Natural Poisons and Venoms in 5 Volumes Volume 1 Plant Toxins Terpenes and Steroids 2023 ISBN 978 3 11 072472 1 Volume 2 Plant Toxins Polyketides Phenylpropanoids and Further Compounds 2024 ISBN 978 3 11 072851 4 Volume 3 Plant Toxins Alkaloids and Lectins 2025 ISBN 978 3 11 112740 8 Volume 5 Fungal and Microbial Toxins 2025 ISBN 978 3 11 072856 9

Site-Selective Neurotoxicity David S Lester, William Slikker Jr, Philip Lazarovici, 2002-02-07 This unique volume provides interdisciplinary coverage of the mechanistic perspective of neurotoxicity that focuses on the site of action of known neurotoxins It provides the reader with an insight into the common characteristics of neurotoxin action on the nervous system and examines sites of action at three levels of complexity molecular cellu

Airborne Biocontaminants and their Impact on Human Health Rajeev Singh, Anamika Singh, 2024-06-14 Explore in depth the relationships between biological contaminants and human health found in diverse settings such as homes hospitals businesses and schools Indoor air quality has an immense impact on human health and well being Indoor air environments can contain a huge range of biological contaminants including bacteria fungi viruses insects and their various harmful byproducts Indoor biocontamination has been under studied as an aspect of public and occupational health and there is an urgent need for an introduction to this vital subject Airborne Biocontaminants and Their Impact on Human Health meets this need with a thorough rigorous overview of major indoor airborne contaminants Gathering and summarizing a huge range of data regarding biocontaminants in settings from homes to schools to workplaces it investigates patterns of morbidity and their connections to major contaminants The result is an essential tool in the broader fight for human health at home and elsewhere Airborne Biocontaminants and Their Impact on Human Health readers will also find Analysis of the indoor role of gases particulate matter and others Detailed coverage of contaminant byproducts including endotoxins mycotoxins volatile organic compounds and more Methods for generating awareness and therefore reduced risk of exposure to harmful contaminants Airborne Biocontaminants and Their Impact on Human Health is ideal for researchers biologists environmentalists civil and environmental engineers industrial hygienists safety regulators and public health officials interested in the area of biological contamination in different environments

MACPF/CDC

Proteins - Agents of Defence, Attack and Invasion Gregor Anderluh, Robert Gilbert, 2014-05-05 This book focusses on evolutionary structural and functional aspects of pore forming proteins bringing together prominent researchers in the fields

of structural biology and cellular and biophysical techniques The focus is on the MACPF CDC protein super family that was originally discovered because of unexpected structural similarity between a domain present in bacterial cholesterol dependent cytolysins CDC and proteins of the membrane attack complex perforin MACPF family Members of the MACPF CDC super family are crucial for many biological processes being efficient agents of development defence attack and invasion of cells and tissues However their best known role is in bacterial pathogenesis and the proper functioning of the vertebrate immune system via formation of transmembrane pores in target cell membranes The book contains chapters on the distribution of MACPF CDC proteins and on aspects of their evolution and structural properties the similarities between different super family members and functional properties of some of the best known examples The book also contains an overview of biophysical approaches that may be used in the future to provide further insights into how these interesting proteins function

Pore-Forming Toxins, 2021-03-10 Pore Forming Toxins Volume 649 in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by field leaders Chapters in this new release include X ray crystallography shines a light on pore forming toxins Giant unilamellar vesicles for studying activity of pore forming proteins Combined applications of fluorescence spectroscopy and molecular dynamics simulations in studies of Diphtheria Toxin translocation domain Biophysical approaches to study actinoporin lipid interactions Molecular basis for activation of Actinoporins by lipids Engineered ClyA for detection of biological molecules Pore forming Toxins for the Size Discrimination of Polymers and Biopolymers Towards Biomolecules Sequencing and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series

Advances in Protein and Peptide Sciences Ben M. Dunn, 2013-10-30 Advances in Protein and Peptide Sciences is a book series focused on leading edge research on the structure physical properties and functions of proteins and peptides The series presents highly cited contributions first published in the journal Current Protein and Peptide Science Authors of these contributions have updated their work with new experimental data and references following their initial research Each volume highlights a number of important topics in current research in the field of protein and peptide chemistry and molecular biology including membrane proteins and their interactions with ligands computational methods and proteins in disease and biotechnology

Amino Acids, Peptides and Proteins in Organic Chemistry, Analysis and Function of Amino Acids and Peptides, 2011-11-30 This is the last of five books in the Amino Acids Peptides and Proteins in Organic Synthesis series Closing a gap in the literature this is the only series to cover this important topic in organic and biochemistry Drawing upon the combined expertise of the international who s who in amino acid research these volumes represent a real benchmark for amino acid chemistry providing a comprehensive discussion of the occurrence uses and applications of amino acids and by extension their polymeric forms peptides and proteins The practical value of each volume is heightened by the inclusion of experimental procedures The 5 volumes cover the following topics

Volume 1 Origins and Synthesis of Amino Acids Volume 2 Modified Amino Acids Organocatalysis and Enzymes Volume 3 Building Blocks Catalysis and Coupling Chemistry Volume 4 Protection Reactions Medicinal Chemistry Combinatorial Synthesis Volume 5 Analysis and Function of Amino Acids and Peptides Volume 5 of this series presents a wealth of methods to analyze amino acids and peptides Classical approaches are described such as X ray analysis chromatographic methods NMR AFM mass spectrometry and 2D gel electrophoresis as well as newer approaches including Surface Plasmon Resonance and array technologies Originally planned as a six volume series Amino Acids Peptides and Proteins in Organic Chemistry now completes with five volumes but remains comprehensive in both scope and coverage Further information about the 5 Volume Set and purchasing details can be viewed here [International Review of Cell and Molecular Biology](#) Kwang W. Jeon, 2015-02-20 *International Review of Cell and Molecular Biology* presents comprehensive reviews and current advances in cell and molecular biology Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth The series has a world wide readership maintaining a high standard by publishing invited articles on important and timely topics authored by prominent cell and molecular biologists Authored by some of the foremost scientists in the field Provides comprehensive reviews and current advances Wide range of perspectives on specific subjects Valuable reference material for advanced undergraduates graduate students and professional scientists *Biophysical Methods for Biotherapeutics* Tapan K. Das, 2014-04-28 With a focus on practical applications of biophysical techniques this book links fundamental biophysics to the process of biopharmaceutical development Helps formulation and analytical scientists in pharma and biotech better understand and use biophysical methods Chapters organized according to the sequential nature of the drug development process Helps formulation analytical and bioanalytical scientists in pharma and biotech better understand and use strengths and limitations of biophysical methods Explains how to use biophysical methods the information obtained and what needs to be presented in a regulatory filing assess impact on quality and immunogenicity With a focus on practical applications of biophysical techniques this book links fundamental biophysics to the process of biopharmaceutical development *Advances in Planar Lipid Bilayers and Liposomes*, 2015-03-21 The Elsevier book series *Advances in Planar Lipid Bilayers and Liposomes* APLBL provides a global platform for a broad community of experimental and theoretical researchers studying cell membranes lipid model membranes and lipid self assemblies from the micro to the nanoscale Planar lipid bilayers are widely studied due to their ubiquity in nature and find their application in the formulation of biomimetic model membranes and in the design of artificial dispersion of liposomes Moreover lipids self assemble into a wide range of other structures including micelles and the liquid crystalline hexagonal and cubic phases Consensus has been reached that curved membrane phases do play an important role in nature as well especially in dynamic processes such as vesicles fusion and cell communication Self assembled lipid structures have enormous potential as dynamic materials ranging from artificial lipid membranes to cell

membranes from biosensing to controlled drug delivery from pharmaceutical formulations to novel food products to mention a few An assortment of chapters in APLBL represents both an original research as well as comprehensive reviews written by world leading experts and young researchers The APLBL book series gives a survey on recent theoretical as well as experimental results on lipid micro and nanostructures In addition the potential use of the basic knowledge in applications like clinically relevant diagnostic and therapeutic procedures biotechnology pharmaceutical engineering and food products is presented An assortment of chapters in APLBL represents both an original research as well as comprehensive reviews written by world leading experts and young researchers Permeability of Biological Membranes Gaspar

Banfalvi, 2016-02-10 This book deals with biological membranes focuses on permeabilization and pays particular attention to reversible permeabilization to maintain the viability and physiological conditions of the cells Selective permeability of biological membranes also known as semipermeability partial permeability or differential permeability allows molecules to diffuse pass by passive and active or by other types of transport processes mediated by proteins The first chapter of the book deals with the composition of biological membranes characterizes cellular membranes of prokaryotic eukaryotic cells membranes of cellular organelles and the function of biological membranes The second chapter provides an overview of bilayer permeability selectivity of permeabilization and cellular transport processes Chapter 3 overviews different cell manipulations that aim to make cells permeable while maintaining not only the structural but also the functional integrity of cells The last chapter deals with applications particularly with reversible permeabilization to study macromolecular DNA RNA poly ADP ribose biosynthetic processes replication gene expression visualization of replicons intermediates of chromosome condensation genotoxic chromatin changes upon treatment with heavy metals and different types of irradiation The interdisciplinary aspects of the book contribute to the understanding of the structure of nucleic acids replicative intermediates Okazaki fragments RNA primer mechanism subphases of replication and repair synthesis replicons gene expression chromosome condensation generated a wealth of information that will attract a wide readership The natural audience engaged in DNA research including genetics cell and molecular biology chemistry biochemistry medicine pharmacy will find essential material in the book G Protein-Coupled Receptors: Emerging Paradigms in Activation, Signaling and Regulation Part A, 2018-04-23 G Protein Coupled Receptors Emerging Paradigms in Activation Signaling and Regulation Part A Volume 337 in the International Review of Cell and Molecular Biology series reviews and details current advances in cell and molecular biology The IRCMB series has a worldwide readership maintaining a high standard by publishing invited articles on important and timely topics that are authored by prominent cell and molecular biologists This new release includes comprehensive sections on the classical paradigms of GPCR signaling and regulation the family of small GTPases Beyond heterotrimeric G proteins GPCR endocytosis Arrestins arrestin like proteins signaling from internalized G Protein Coupled Receptors GPCR kinases and more Publishes only invited review articles on selected topics Authored by established

and active cell and molecular biologists whose work is drawn from international sources Offers a wide range of perspectives on specific subjects Globins and Other Nitric Oxide-Reactive Proteins, Part A Robert K. Poole, 2011-09-02 The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with over 400 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Methods in Enzymology* is now available online at ScienceDirect full text online of volumes 1 onwards For more information about the Elsevier Book Series on ScienceDirect Program please visit <http://www.info.sciencedirect.com/bookseries> This volume features methods for the study of globin and other nitric oxide reactive proteins *Identification and Characterization of Antimicrobial Peptides with Therapeutic Potential* Guangshun Wang, 2018-07-04 This book is a printed edition of the Special Issue *Identification and Characterization of Antimicrobial Peptides with Therapeutic Potential* that was published in *Pharmaceuticals*

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