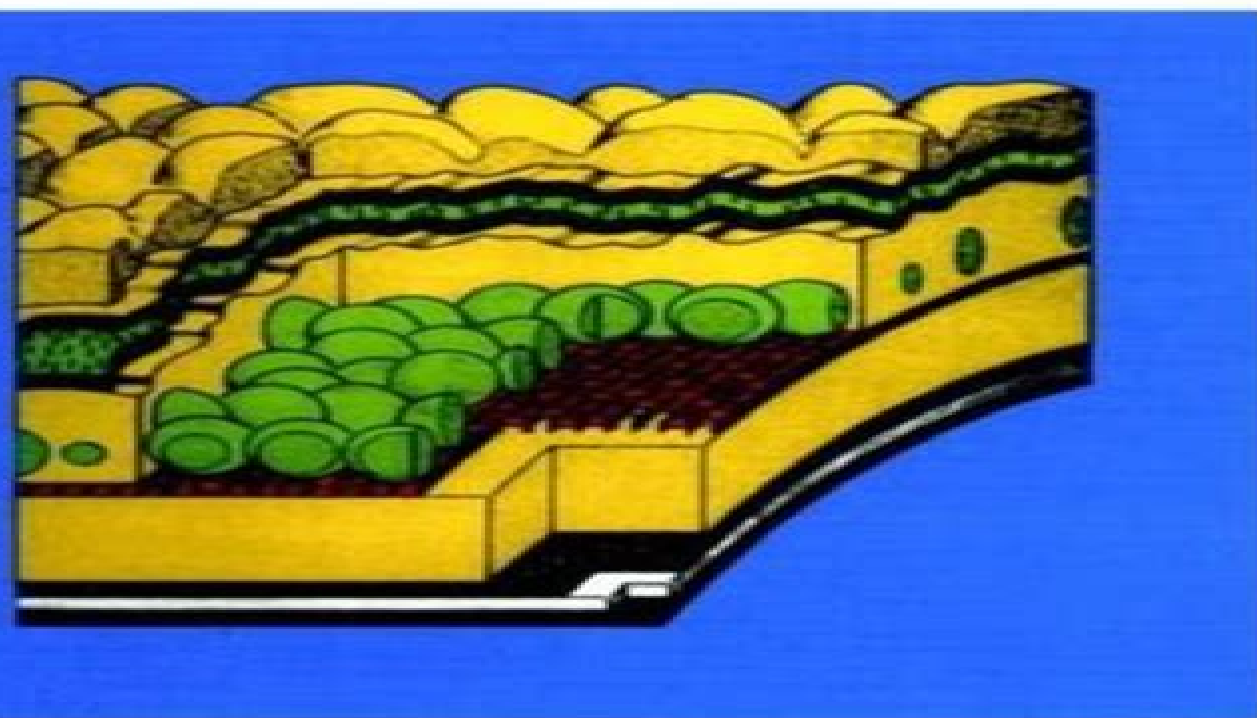


Surface Structures of Microorganisms and Their Interactions with the Mammalian Host

Edited by
E. Schrinner, M. H. Richmond, G. Seibert, U. Schwarz



Surface Structures Of Microorganisms And Their Interactions With The Mammalian Host

David C. Morrison, John L. Ryan



Surface Structures Of Microorganisms And Their Interactions With The Mammalian Host:

Surface Structures of Microorganisms and Their Interactions with the Mammalian Host E. Schrinner, M. H. Richmond, G. Seibert, U. Schwarz, 1997-12-26 *Surface Structures of Microorganisms and Their Interactions with the Mammalian Host* Edited by E Schrinner M H Richmond G Seibert U Schwarz This book discusses the interactions that occur between the surface layers of microorganisms and the mammalian host Particular emphasis is placed on the field of microbial infection and pathogenicity whereby yeasts fungi and protozoa are considered in addition to bacteria Other topics treated include bacterial endotoxins and cell wall degradation products The twenty contributions to this book were written by a wide range of specialists from different countries They offer an international and interdisciplinary compilation of current knowledge in this field Surface Structures of Microorganisms and Their Interactions with the Mammalian Host Elmar Schrinner, 1988

New Methods for the Study of Biomolecular Complexes W. Ens, Kenneth Standing, I. Chernushevich, 1998-02-28 A NATO Advanced Research Workshop entitled New Methods for the Study of Molecular Aggregates was held at The Lodge at Kananaskis Village Alberta Canada from 16-20 June 1996 In fact the meeting was entirely concerned with the problem of analyzing biomolecular complexes so the title of these proceedings has been altered to give a more precise description of the content The workshop was hosted by the time of flight group of the Department of Physics at the University of Manitoba and was attended by 64 participants from around the world twenty one invited talks were given and 27 papers were presented as posters Of the 48 contributions 22 papers 12 orals 10 posters are included in these proceedings The subject of the conference was the investigation of noncovalent biomolecular complexes with particular focus on the application of mass spectrometry to their characterization via new ionization techniques introduced in the late 1980s electrospray ionization ESI and matrix assisted laser desorption/ionization MALDI resulted in a breakthrough in mass spectrometry enabling its use in molecular weight and primary structure determination of biopolymers larger than 100 kDa Recently it has been discovered that ESI mass spectrometry may also be used to characterize complexes containing noncovalent interactions thus opening new perspectives for supramolecular chemistry ESI mass spectrometry has the advantage that the sample is introduced from a homogenous solution which can be maintained at near physiological conditions of pH concentration and temperature

Lectin-Microorganism Interactions R. Doyle, 1994-02-08 Provides in depth coverage of lectins and their interactions with micro organisms and demonstrates how lectins function as probes for viral bacterial fungal and protozoal surfaces as well as for blood group antigens **Anoxygenic Photosynthetic Bacteria** R.E. Blankenship, Michael T. Madigan, C.E.

Bauer, 2006-04-11 *Anoxygenic Photosynthetic Bacteria* is a comprehensive volume describing all aspects of non oxygen evolving photosynthetic bacteria The 62 chapters are organized into themes of Taxonomy physiology and ecology Molecular structure of pigments and cofactors Membrane and cell wall structure Antenna structure and function Reaction center structure and electron proton pathways Cyclic electron transfer Metabolic processes Genetics Regulation of gene expression

and applications The chapters have all been written by leading experts and present in detail the current understanding of these versatile microorganisms The book is intended for use by advanced undergraduate and graduate students and senior researchers in the areas of microbiology genetics biochemistry biophysics and biotechnology

The Biology of Acinetobacter K.J. Towner,E. Bergogne-Bérézin,C.A. Fewson,2013-11-11 The 1st International Workshop on Acinetobacter was held on 6th September 1986 in Manchester England in association with the 14th International Congress of Microbiology That occasion was so well attended and productive that there were soon discussions about how when and where the next meeting should be held This time however there was sufficient confidence to think of a more substantial meeting and to plan for the proceedings to be published It emerged that there was wide agreement that the time was ripe to take stock of the entire biology of Acinetobacter its occurrence and taxonomy its molecular biology biochemistry and physiology its clinical importance and its industrial and commercial applications The 2nd International Workshop on Acinetobacter took place from 6th to 7th September 1990 at the Institut Pasteur Paris and was sponsored by the Federation of European Microbiological Societies There were about 100 participants from 19 countries The backbone of the meeting consisted of 23 plenary lectures There were 28 posters and the meeting closed with a general discussion which went on long after the official finishing time despite all the counter attractions of a sunny Parisian Friday afternoon Indeed discussions continued while cruising along the Seine and while dining at the top of the Tour Montparnasse However the vitality and usefulness of even the most successful meeting is difficult to transmit by the printed word

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1989

The Biomarker Guide: Volume 1, Biomarkers and Isotopes in the Environment and Human History K. E. Peters,C. C. Walters,J. M. Moldowan,2007-08-16 The second edition of The Biomarker Guide is a fully updated and expanded version of this essential reference Now in two volumes it provides a comprehensive account of the role that biomarker technology plays both in petroleum exploration and in understanding Earth history and processes Biomarkers and Isotopes in the Environment and Human History details the origins of biomarkers and introduces basic chemical principles relevant to their study It discusses analytical techniques and applications of biomarkers to environmental and archaeological problems The Biomarker Guide is an invaluable resource for geologists petroleum geochemists biogeochemists environmental scientists and archaeologists

Endotoxemia and Endotoxin Shock C. Ronco,P. Piccinni,M. H. Rosner,2010-06-02 The presence of endotoxin in the bloodstream is the consequence of an immunological response triggered by bacterial invasion of the host This condition leads to altered cardiovascular function lung dysfunction and acute kidney injury Removing as much as possible of the circulating endotoxin is therefore imperative to mitigate its biological and clinical effects at the cellular tissue and organ levels The publication at hand summarizes the basic mechanisms rationale and clinical results of a new therapeutic approach that promises to attain this goal It consists of a specific hemoperfusion process that utilizes cartridges with immobilized polymyxin B in an extracorporeal circuit Containing contributions by renowned

researchers this book represents as a milestone in the field of extracorporeal therapies in sepsis It will be a valuable reference work for both basic scientists and clinical professionals who want to keep abreast of current developments

Bacterial Endotoxic Lipopolysaccharides David C. Morrison, John L. Ryan, 2024-12-20 Bacterial Endotoxic Lipopolysaccharides provides an up to date two volume review of the latest information regarding bacterial lipopolysaccharide structure and activities These volumes cover the biochemistry pharmacology and pathophysiologic properties of endotoxins The volumes also thoroughly discuss the strengths and weaknesses of new therapies for septic shock that are based on an immunological attack on endotoxins and the cytokines induced by endotoxins All scientists involved in endotoxin research clinical infectious disease specialists and medical students interested in the pathogenesis of septic shock will find Bacterial Endotoxic Lipopolysaccharides invaluable as a reference resource

Lipopolysaccharides (LPSs) Juan M. Tomás, 2020-01-24 The cytoplasm of Gram negative bacteria is bound by three layers an inner membrane a layer of peptidoglycan and an outer membrane The outer membrane is an asymmetric lipidic bilayer with phospholipids on its inner surface and lipopolysaccharides LPSs on the outside with the latter being the major component of the outer leaflet and covering nearly three quarters of the total outer cell surface All LPSs possess the same general chemical architecture independently of bacterial activity pathogenic symbiotic commensal ecological niche human animal soil plant water or growth conditions Endotoxins are large amphiphilic molecules consisting of a hydrophilic polysaccharide component and a covalently bound hydrophobic and highly conserved lipid component termed lipid A the endotoxin subunit The polysaccharide component can be divided into two subdomains the internal and conserved core region as well as the more external and highly variable O specific chain also referred to as the O antigen due to its immunogenic properties LPSs are endotoxins one of the most potent class of activators of the mammalian immune system they can be released from cell surfaces of bacteria during multiplication lysis and death LPS can act through its biological center lipid A component on various cell types of which macrophages and monocytes are the most important

Defense of Mucosal Surfaces: Pathogenesis, Immunity and Vaccines Jean-Pierre Kraehenbuhl, Marian R. Neutra, 2012-12-06 Mucosal immunity encompasses a broad field of research that includes areas of epithelial cell and molecular biology molecular and cellular immunology microbiology virology and vaccinology This volume presents up to date and concise discussions of concepts as well as recent advances It provides an overview of the components of the mucosal immune system and the basic science relevant to mucosal vaccination The authors assess current research in critical areas including Organization of mucosal lymphoid tissue antigen sampling and presentation in mucosal tissues mucosal immune responses and tolerance immune effectors at mucosal sites microbial host interactions at mucosal sites mucosal vaccines and adjuvants This multi disciplinary effort will be a valuable resource for researchers clinicians and students who need a clear understanding of concepts and a guide to the wide ranging literature in this very active research area

Surface Structures of Microorganisms and Their Interactions with the Mammalian Host

Elmar Schrunner,1988 **Immunotherapy of Infections** K. Noel Masihi,1994-07-15 Based on the International Symposium on Immunotherapy of Infections held recently at the Robert Koch Institute Berlin Germany this work discusses cytokines as well as synthetic and natural immunomodulators and their applications in the immunotherapy of bacterial viral parasitic and fungal infections The contributors describe innovative treatment concepts that act as adjuncts to established therapies for the control of both existing and newly emerging infectious diseases Biology of Methylo trophs Israel A. Goldberg,J. Stefan Rokem,2013-10-22 Biology of Methylo trophs introduces the reader to the study of methylo trophs microorganisms that use reduced one carbon compounds for growth The book is divided into five parts Part I covers the taxonomy morphology and ultrastructure of methylo trophic bacteria Part II discusses the processes involved in their growth and metabolism Part III talks about the possible applications of methylo trophs and their enzymes in industrial fields as well as chemistry Part IV deals with the molecular genetics and the gene expression of methylo trophs and Part V deals with their habitat and role in the environment The text is recommended for microbiologists who would like to be acquainted with the subject or make further studies about methylo trophs Endotoxin H. Friedman,2013-11-11 This volume is based on the proceedings of the International Symposium on Bacterial Endotoxins held in Japan May 11 14 1988 and sponsored by the International Endotoxin Society and the International Society for Immuno pharmacology Speakers and participants of this symposium provided new information concerning fundamental and clinical aspects of endotoxin research conducted over the last half decade or so Advances have been made in understanding the structure and nature of endotoxin molecules and their effects on a wide variety of both cellular and subcellular aspects of immunity metabolism and physiology both in vivo and in vitro Endotoxins are constituents of gram negative bacteria Since their original discovery in the nineteenth century many laboratories studied their chemical composition their physico and immunochemical properties as well as their pharmacological and physiological effects on the host Much is now known about the chemical structure of the endotoxins There is also a growing body of information concerning the multiple effects of endotoxins on the host including immune mechanisms Some effects have been found to be beneficial to the host and endotoxins are being used more frequently to induce important mediators of immunity as well as increasing resistance against infections by many microorganisms as well as inhibiting growth of tumors in experimental animal models and in man **Bacterial Adhesion to Cells and Tissues** Itzhak Ofek,Ronald J. Doyle,2012-12-06 Attachment to host cells or tissues is often the first step in the establishment of bacterial infections A complex array of recognition attachment and virulence factors is involved in this process which recent research has greatly illuminated This comprehensive and authoritative volume discusses the specific cell and tissue specific affinities of pathogenic microorganisms including bioinorganic surfaces such as teeth and is an essential reference for researchers and students of host pathogen interactions **Mechanisms and Models in Rheumatoid Arthritis** B. Henderson,J. G. Edwards,E. R. Pettipher,1995-03-16 Rheumatoid arthritis is a bewilderingly complex disease involving the

interactions of many and varied cell populations and multiple families of low and high molecular mass mediators We are only slowly beginning to understand the mechanisms that produce the local and systematic pathology clinically recognized as rheumatoid arthritis Increasingly use is being made of experimental models of this disease in an effort to test hypotheses about putative pathological mechanisms and to investigate the effect of novel therapeutic agents A major section of this book covers these experimental models in great detail from their development through to reviews of the most recent information on each model Mechanisms and Models in Rheumatoid Arthritis brings together a group of eminent researchers from the fields of clinical rheumatology pathology experimental pathology immunology connective tissue biochemistry microbiology pharmacology and developmental biology to describe the current views of the cellular and humoral mechanisms that drive the pathology of rheumatoid arthritis and experimental models of rheumatoid arthritis Key Features The book is divided into five sections The clinical spectrum aetiopathogenesis the role of microbial superantigens in pathology and the present and future therapies for rheumatoid arthritis The pathology of rheumatoid arthritis the development and role of synovial pannus and the use of immunohistochemistry in defining synovial pathology Cell populations involved in synovitis with chapters on synovial cells chondrocytes bone cells leukocytes and leukocyte trafficking Mediators with coverage of cytokines and cytokine inhibitors growth factors free radicals and inflammatory lipid mediators neuropeptides and proteases Current studies on experimental models of rheumatoid arthritis

Heteroatom Manipulation E. Winterfeldt, 1992-09-08 In this volume those functional groups containing heteroatoms that have gained importance in organic synthesis are dealt with in detail The introduction of these various groups and their relevant transformations are described and the various aspects of chemoselectivity regioselectivity and stereoselectivity are discussed After a compilation of the synthetically most useful substitution processes there is a series of chapters on the various types of acylation reactions and in this context the different methods of acyl group activation are discussed As functional group protection is of very general importance for organic synthesis a corresponding chapter is included This is followed by a section on the preparation of carbonyl derivatives and the most important transformations and rearrangements of functional group derivatives At the end of the volume one finds chapters on all types of elimination reactions and related thermal reactions together with a survey on fragmentation processes in organic synthesis

Polyhydroxyalkanoates--plastic Materials of the 21st Century Tat'iana Grigor'evna Volova, 2004 Special Interest Categories biotechnology materials science medicine ecology and chemistry The book summarizes the literature data and research results on biodegradable polyesters of microbiological origin polymers of hydroxy alkanoic acids polyhydroxyalkanoates PHAs These polymers are thermoplastic biodegradable and biocompatible They are promising candidates for applications in agriculture communal services pharmacology medicine and other spheres The book sums up the most recent data on the known types of polyhydroxyalkanoates their producers substrates and methods of biosynthesis The structure and physicochemical properties of these polymers the methods used to process them

to make specialised products and spheres of their application are described in the book

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