

Microbial interactions

J. L. Reissig

III



Springer

Receptors And Recognition Vol 3 Microbial Interactions

J.L. Reissig



Receptors And Recognition Vol 3 Microbial Interactions:

Microbial Interactions J.L. Reissig, 2013-12-11 Microbiology has undergone a number of metamorphoses in its relatively brief existence. It has been in approximate succession morphology, epidemiology, biochemistry, genetics, and molecular biology. It is also becoming a significant parcel of cell surface studies. The one embodiment which has remained elusive, particularly for bacteriology, is the taxonomic one. This may have been a blessing in disguise because it encouraged microbiologists to deal with the general rather than the particular, promoting a search for unitary explanations in the manner of Kluyver and van Niel long before anyone knew about the universality of the genetic code or could trace the genealogy of enzymes from the study of amino acid substitutions. This volume is predicated on the idea that deep analogies underlie the mechanisms of cellular interaction and therefore belongs in the unitary tradition of microbiology. It occupies itself with a wide variety of microorganisms, considering them from vantage points of considerable diversity, ranging from taxonomic irreverence to keen evolutionary awareness and is concerned with areas which have developed independently of each other.

Virus Receptors K. Longberg-Holm, 2013-03-09 It is hardly necessary to define the concept of receptors to readers of this series, but it should be born in mind that in several instances receptors are undefined entities whose molecular details remain to be established. On the other hand, the ligand which recognizes the receptors has been identified and characterized in most cases. The current interest in the structure and function of biological membranes gives great expectations that in the near future we may understand the details of ligand-receptor interaction. This interaction involves two defined steps: the first, usually referred to as recognition, is followed by the second step, transduction, in which the ligand-receptor interaction is translated by the cell into a biochemical action. The present two volumes, which cover prokaryotic and eukaryotic virus receptors, have been published together in order to illustrate the specificity of virus-receptor recognition, which appears to be a guiding principle for both bacteria and higher cells. The identification and characterization of the receptors for phages of gram-negative bacteria has to a large extent relied on the genetic techniques available for these organisms. In a similar way, the availability of genetic systems has also clarified the interrelationship between animal retrovirus receptors, even if the molecular structure remains to be determined. The paucity of defined genetic systems may therefore explain part of our ignorance concerning the molecular details of virus receptors on human cells and possibly also on gram-positive bacteria.

Molecular Mechanisms of Microbial Adhesion Lech Switalski, Magnus Höök, Edwin Beachey, 2012-12-06 It has been 80 years since the subject of bacterial adhesion to surfaces was first brought forth, but only in the last two decades has the importance of this subject been recognized by medical microbiologists. The fact that bacterial attachment to the host tissue is a prerequisite for infection understandably led to the hope that infections could be prevented by blocking the adhesion of pathogenic bacteria. Progress in this field has been so rapid that it has become difficult to keep up with recent developments. This book contains the proceedings of the symposium on the Molecular Mechanisms of Microbial Adhesion, May 6-8, 1988.

Both the symposium and this book were intended as an up to date review of the most recent findings concerning the adhesion of medically important bacteria. In addition this book contains critical and provocative overviews of the past present and future of this field. **Receptors and Recognition** P. Cuatrecasas, M. F. Greaves, 2013-11-21 This new series is concerned with intercellular communication and recognition. It is now widely appreciated that these processes play a crucial role in virtually all biological systems and functions. These encompass fertilisation, embryonic development, infectious interactions, the activity of the nervous system, the regulation of growth and development by hormones and the immune response to foreign or non self antigens. Historically as described in the first review in this volume, the general concept of cell associated receptors as the molecular entity primarily responsible for the specificity of signal recognition arose independently in the fields of immunology, pharmacology and developmental biology. From an early stage the analogy between cellular recognition and the discriminatory activity of antibodies and enzymes was emphasised. A vital conceptual advance expressed most clearly by Linus Pauling and Paul Weiss was the idea that non covalent molecular interactions of proteins in particular were responsible for biological specificity in general. In the last decade several major advances have led to a new level of understanding of the molecular basis of cellular recognition. In several systems in particular with neurotransmitters, hormones and antigens it is possible to directly demonstrate the existence of receptors associated in each case with the cell surface. These studies have been paralleled by equally important insights into the general structure and organisation of cell membranes and the possible ways in which signals arriving from the outside can be transduced across the cell surface membrane to induce or regulate the cell's programmed responses. **Sexual Interactions in Eukaryotic Microbes**

Danton O'Day, 2012-12-02 **Sexual Interactions in Eukaryotic Microbes** provides a comprehensive discussion of the sexual processes of eukaryotic microorganisms. The book is organized into three parts. Part I presents an overview of intercellular communication covering the modes of cellular communication and the benefit of using eukaryotic microbes for studying cell communication. Part II on pheromonal interactions includes studies on the role of sex pheromones in organisms such as *Saccharomyces cerevisiae*, *Allomyces*, *Volvox* and *Neurospora crassa*. Part III on cell surface interactions presents studies such as sexual interactions in *Saccharomyces cerevisiae*, sexual interactions of the cell surface in *Paramecium* and the genetics and cellular biology of sexual development in *Ustilago violacea*. This book will be of value on a multitude of levels from a general reference text to a source of research ideas. It will appeal to a wide spectrum of readers in a large number of disciplines but will be particularly useful to cell biologists, microbiologists, protozoologists and mycologists interested in the study of cellular communication. **Pseudomonas Aeruginosa: New Therapeutic Approaches from Basic Research** D. P. Speert, R. E. W. Hancock, 1985-04-02 **Genetic Approaches to Microbial Pathogenicity** W. Goebel, 2012-12-06

Molecular Biology, Pathogenicity, and Ecology of Bacterial Plasmids Stuart B. Levy, 2012-12-06 This book resulted from presentations at an international conference on bacterial plasmids held January 5-9 1981 in Santo Domingo, Dominican

Republic This was the first meeting of its kind in the Southern Hemisphere The meeting place was selected for its relaxed and comfortable climate conducive to interactions among participants More importantly the locale facilitated the participation of nearby Latin American clinical and research scientists who deal directly with the health manifestations of pathogenic plasmids Diseases and socio economic practices of developing countries exist in the Dominican Republic whose scientific community could directly benefit from having the meeting there The book includes the talks as well as extended abstracts of poster presentations from the meeting This combination which provides readers with reviews as well as recent findings captures the full scientific exchange which took place during the 5 day meeting As one indication of pathogenicity related to plasmids the conferees were surveyed for gastro intestinal problems during and after their stay in the Dominican Republic The results are summarized at the end of this book

The Enzymes of Biological Membranes

Anthony Martonosi, 2012-12-06 In the first edition of The Enzymes of Biological Membranes published in four volumes in 1976 we collected the mass of widely scattered information on membrane linked enzymes and metabolic processes up to about 1975 This was a period of transition from the romantic phase of membrane biochemistry preoccupied with conceptual developments and the general properties of membranes to an era of mounting interest in the specific properties of membrane linked enzymes analyzed from the viewpoints of modern enzymology The level of sophistication in various areas of membrane research varied widely the structures of cytochrome c and cytochrome b were known to atomic detail while the majority of membrane linked enzymes had not even been isolated In the intervening eight years our knowledge of membrane linked enzymes expanded beyond the wildest expectations The purpose of the second edition of The Enzymes of Biological Membranes is to record these developments The first volume describes the physical and chemical techniques used in the analysis of the structure and dynamics of biological membranes In the second volume the enzymes and metabolic systems that participate in the biosynthesis of cell and membrane components are discussed The third and fourth volumes review recent developments in active transport oxidative phosphorylation and photosynthesis

The Biology of Paramecium

R. Wichterman, 2012-12-06 This completely revised updated and expanded edition has been necessitated by the many important newer discoveries that have been made since the publication of the first edition That volume contained almost 2000 references from the 1600s to 1953 Since then and after an extensive search I have accumulated some 3800 additional titles from the world's literature on Paramecium After certain titles that largely represented abstracts and preliminary reports that were followed by full research papers were eliminated approximately 4400 full titles from the 1600s to the present were selected for inclusion in this edition Most of the titles in the Bibliography are the more recent ones beginning with 1953 I consider the Bibliography an important part of the book A good title of a paper in a journal is a miniature abstract of its contents Thus the reader who may be interested in obtaining additional information not found in the book may refer directly to the original source A cursory examination of the Bibliography will reveal that paramecium research has extended into all

branches of biology including bio chemistry and biophysics Like other areas of science paramecium research has become highly specialized and fragmented I have attempted to organize and present the basic information in one book Because of space limitations some items may have been dealt with briefly It is in such instances that the Bibliography will be found to be invaluable Biological Growth and Spread W. Jäger,H. Rost,P. Tautu,2013-03-12 These Proceedings have been assembled from papers presented at the Conference on Models of Biological Growth and Spread held at the German Cancer Research Centre Heidelberg and at the Institute of Applied Mathematics of the University of Heidelberg July 16 21 1979 The main theme of the conference was the mathematical representation of biological populations with an underlying spatial structure An important feature of such populations is that they and or their individual components may interact with each other Such interactions may be due to external disturbances internal regulatory factors or a combination of both Many biological phenomena and processes including embryogenesis cell growth chemotaxis cell adhesion carcinogenesis and the spread of an epidemic or of an advantageous gene can be studied in this context Thus problems of particular importance in medicine human and veterinary agriculture ecology etc may be taken into consideration and a deeper insight gained by utilizing more realistic mathematical models Since the intrinsic biological mechanisms may differ considerably from each other a great variety of mathematical approaches theories and techniques is required The aims of the conference were i To provide an overview of the most important biological aspects ii To survey and analyse possible stochastic and deterministic approaches iii To encourage new research by bringing together mathematicians interested in problems of a biological nature and scientists actively engaged in developing mathematical models in biology **The Development Of Dictyostelium**

Discoideum William Loomis,2012-12-02 The Development of Dictyostelium discoideum consists of 11 chapters representing the 11 major aspects at which continuous progress are made in the study of Dictyostelium discoideum This book begins with the discovery classification ecology and development of Dictyostelium discoideum It then outlines the advances in genetic manipulation and mutant isolation of the organism Much of the advances in cell biology have been related to a better understanding of the composition and function of the cell membrane Hence analyses of Dictyostelium plasma membranes are collated This reference material also describes the role of chemoattractants in organizing cell movements and the intracellular events triggered by occupancy of chemoreceptors It also explains the understanding of the macromolecular components of the chemosensory system of Dictyostelium discoideum It further discusses the cell motility cell adhesion morphogenetic signaling cytodifferentiation and gene expression in the species Finally the phenomenon of cell type specification and regulation in this organism is addressed This book will be valuable for those already familiar with the general outlines of Dictyostelium biology The Specificity and Action of Animal, Bacterial and Plant Toxins Pedro Cuatrecasas,2013-12-17 Bacterial Conjugation D.B. Clewell,2013-06-29 Bacterial plasmids originating in a wide range of genera are being studied from a variety of perspectives in hundreds of laboratories around the globe These elements are well

known for carrying special genes that confer important survival properties frequently necessary under atypical conditions. Classic examples of plasmid borne genes are those providing bacterial resistance to toxic substances such as antibiotics, metal ions and bacteriophage. Often included are those determining bacteriocins which may give the bacterium an advantage in a highly competitive environment. Genes offering metabolic alternatives to the cell under nutritionally stressed conditions are also commonly found on plasmids as are determinants important to colonization and pathogenesis. It is likely that in many if not most cases plasmids and their passenger determinants represent DNA acquired recently by their bacterial hosts and it is the characteristic mobility of these elements that enables their efficient establishment in new bacterial cells by the process known as conjugation. Whereas many plasmids are fully capable of promoting their own conjugal transfer others move only with help from co-resident elements. The ability of a plasmid to establish itself in a variety of different species is common and recent studies have shown that transfer can in some cases occur from bacterial cells to eukaryotes such as yeast. **The**

Fungal Spore and Disease Initiation in Plants and Animals G.T. Cole, H.C. Hoch, 2013-11-11. This treatise is focused on early aspects of fungal pathogenesis in plant and animal hosts. Our aim in choosing the topics and contributors was to demonstrate common approaches to studies of fungal-plant and fungal-animal interactions particularly at the biochemical and molecular levels. For example, the initial events of adhesion of fungal spores to the exposed surface tissues of the host are essential for subsequent invasion of the plant or animal and establishment of pathogenesis. A point of consensus among investigators who have directed their attention to such events in plants, insects and vertebrates is that spore adhesion to the host cuticle or epithelium is more than a simple binding event. It is a complex and potentially pivotal process in fungal-plant interactions which may involve the secretion of fluids that prepare the infection court for the development of morphological stages of the germling and subsequent invasion of the host. Nicholson and Epstein Chapter 1. The attachment of the fungal propagule to the arthropod cuticle is also mediated by the chemical components present on the outer layer of the spore wall and the epicuticle. Initial attachment may be reinforced further by either the active secretion of adhesive materials or the modification of spore wall material located at the fungal spore-arthropod cuticle interface. Boucias and Pendland Chapter 5.

Microbial Aggregation C.B. Calleja, 2018-05-04. This text covers in detail bacteria and yeasts including an overall perspective of microbial aggregation as fundamental form and function which is presented here to include systems still to be treated in detail. **Enterotoxigenic Bacteria from Clinical, Alimentary and Environmental Sources** Sadruddin F. H.

Jiwa, 1981. *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.

Receptors, Membrane Transport and Signal Transduction A.E. Evangelopoulos, J.P. Changeux, L. Packer, T.G. Sotiroudis, K.W.A. Wirtz, 2013-06-29 A NATO Advanced study Institute on Receptors Membrane Transport and Signal Transduction was held on the Island of Spetsai Greece from August 16-27 1988 in order to consider recent developments in membrane receptor research membrane transport and signal transduction mechanisms These topics were put in the larger context of current knowledge on the structure and function of membranes connections between different fields of research were established by in depth discussions of energy transduction and transport mechanisms The general principles of regulation by signal transduction and protein phosphorylation dephosphorylation were presented in the context of specific cellular processes Discussions included also the role of protein tyrosine kinases which are structurally related to oncogene products and therefore implicated in various aspects of cell development and transformation This book presents the content of the major lectures and a selection of the most relevant posters presented during the course of the Institute The book is intended to make the proceedings of the Institute accessible to a larger audience and to offer a comprehensive account of those topics on receptors membrane transport and signal transduction that were discussed extensively during the course of the Institute February 1989 The Editors CONTENTS I G PROTEINS ADENYLATE CYCLASE AND PROTEIN PHOSPHORYLATION Selective regulation of G proteins by Cell surface receptors **Advances in Microbial Physiology**, 1988-02-01 Advances in Microbial Physiology

This book delves into Receptors And Recognition Vol 3 Microbial Interactions. Receptors And Recognition Vol 3 Microbial Interactions is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Receptors And Recognition Vol 3 Microbial Interactions, encompassing both the fundamentals and more intricate discussions.

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