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**Receptor-Mediated  
Binding and  
Internalization  
of Toxins  
and Hormones**

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Edited by

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# Receptor Mediated Binding And Internalization Of Toxins And Hormones

**R.M. Lambrecht,A. Rescigno**



## **Receptor Mediated Binding And Internalization Of Toxins And Hormones:**

**Receptor-Mediated Binding and Internalization of Toxins and Hormones** John Middlebrook, 2012-12-02 Receptor Mediated Binding and Internalization of Toxins and Hormones presents the proceedings of a conference conducted for the purpose of exploring relationships between hormones and toxins specifically receptor mediated internalization of toxins and hormones and the role of this internalization in message transmission and biodegradatory processes This book is divided into three sections with the first focusing on model systems of internalization It presents pictorial illustrations of the receptor mediated endocytosis of low density lipoprotein via coated regions of membrane and discusses the receptor for lysosomal enzymes on the surface of cultured fibroblasts The second section focuses on toxins and hormones and discusses such topics as receptor mediated internalization of diphtheria toxin diphtheria toxin interactions with an inhibitory activity from plasma membranes and uptake mechanisms for ADP ribosylating toxins The third and final section focuses on hybrids and discusses such topics as chimeric toxins containing fragment A from diphtheria toxin directed entry of hybrid proteins into cells via alternate receptors and a hybrid protein of monoclonal anti THY 1 2 and diphtheria toxin fragment A This book will be of interest to practitioners in the fields of endocrinology cell biology and molecular genetics *Hormonal Control of the Hypothalamo-Pituitary-Gonadal Axis* Kenneth W. McKerns, 2013-04-17 The eleventh monograph and meeting of the Foundation on Hormonal Control of the Hypothalamo Pituitary Gonadal Axis was held in October 1983 at the Weizmann Institute of Science This monograph honors the memory of Professor Hans R Lindner a productive and innovative scientist greatly respected and admired by his colleagues When addressing the opening session I remarked that my impression of the Weizmann Institute was one or two large buildings housing the various departments This was my first visit to Israel and I was overwhelmed by the beautiful semi tropical gardens of the institute in a setting of shrubs and trees orange groves and flowers Sited among this seventy five acres are over fifty buildings and residential areas for the staff and visiting scientists I saw pictures of this area when Dr Chaim Weizmann founded in 1934 the Daniel Sieff Research Institute the forerunner of the Weizmann Institute The site was sand dunes without a blade of grass That the desert shall bloom is illustrative of the progress made in Israel The topics of the monograph are grouped into twelve sections *Mechanisms of Receptor Regulation* George Poste, Stanley T. Crooke, 2013-11-11 It is less than 80 years since John Newport Langley first proposed the role of receptive substances as the site of drug action from his observations on the effects of nicotine and curare at the myoneural junction The many advances in our understanding of receptor biology that have occurred during the intervening period mirror the extraordinary growth of knowledge in the biological sciences and in cell and molecular biology in particular Receptor biology in common with many other topics in contemporary biology is on the threshold of a transition from being a descriptive phenomenological discipline to one in which underlying mechanisms and regulatory principles can be defined with increasing precision This change together with the evolution of powerful analytical techniques and timely convergence

of ideas from a number of previously separate fields of inquiry is generating an increasingly unified theoretical and experimental framework for the study of receptor function. These themes and the mood of anticipation that a real understanding of receptor function in health and disease is emerging are reflected in this volume which summarizes the proceedings of the Second papers and Smith Kline French Research Symposium on New Horizons in Therapeutics held in Philadelphia in 1984. **Annual Progress Report** U.S. Army Medical Research Institute of Infectious Diseases, 1980

**Annual Progress Report , Immunotoxins** Arthur E. Frankel, 2012-12-06 Where do you begin to look for a recent authoritative article on the diagnosis or management of a particular malignancy? The few general oncology textbooks are generally out of date. Single papers in specialized journals are informative but seldom comprehensive; these are more often preliminary reports on a very limited number of patients. Certain general journals frequently publish good in-depth reviews of cancer topics and published symposium lectures are often the best overviews available. Unfortunately, these reviews and supplements appear sporadically and the reader can never be sure when a topic of special interest will be covered. **Cancer Treatment and Research** is a series of authoritative volumes which aim to meet this need. It is an attempt to establish a critical mass of oncology literature covering virtually all oncology topics, revised frequently to keep the coverage up to date, easily available on a single library shelf or by a single personal subscription. We have approached the problem in the following fashion: First, by dividing the oncology literature into specific subdivisions such as lung cancer, genitourinary cancer, pediatric oncology, etc. Second, by asking eminent authorities in each of these areas to edit a volume on the specific topic on an annual or biannual basis. Each topic and tumor type is covered in a volume appearing frequently and predictably, discussing current diagnosis, staging, markers, all forms of treatment modalities, basic biology, and more. **National Library of Medicine Current Catalog**, National Library of Medicine (U.S.), 1982. **Trafficking of Bacterial Toxins** Catharine B. Saelinger, 1989-12-21 This work represents a compilation of studies on the entry into and subsequent processing of several bacterial and plant toxins in mammalian cells. Emphasis is placed on the close parallel of mammalian cell processing of toxic proteins and physiologically essential ligands. This easy-to-read book includes chapters which review the structures of the toxins. It compares and contrasts the trafficking of *Pseudomonas* and diphtheria toxins. It also discusses anthrax toxin and the clostridial neurotoxins. **Pathology Reviews • 1989** Emanuel Rubin, Ivan Damjanov, 2013-11-11 on the theories of Planck and Einstein. Rather, until the concept that human disease is a specialized branch of biology is universally accepted today, but in the mid-20th century the accretion of individual historical perspective is actually of recent origin. At examples of the biological nature of disease processes provided the framework for an evolutionary change in one time the heliocentric theories of astronomy and the metallurgic transmutations of alchemy had their thinking. The new psychological and philosophical milieu provided the basis for an unprecedented acceleration counterparts in magical and vitalistic approaches to creation in the pace of biomedical research. It is clear human disease. Any relation between disease of humans and that of

animals was not only unacceptable that the biological revolution of the last 35 years was made possible not only by technological advances and intellectually but abhorrent theologically Humans and their diseases were unique and biology was the innovative analytical methods but also by an intellectual domain of those who studied animals and plants tual emphasis on the unity of biological processes The unification of biology and the study of human High school students are now aware that there is much disease though begun some centuries ago was con to be learned about the human condition by studying spicuously stimulated by the work of Darwin and bacterial DNA the chloroplasts of green leaves or the reached its full flower in this century For example kinetics of enzymes in vitro **Current Catalog** National Library of Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 Cell Biology of the Secretory Process M. Cantin,1983-11-15

**Investigation of Membrane-Located Receptors** Eric Reid,G.M.W. Cook,D.J. Morré,2013-03-09 Prefaces tend to be platitudinous and uncondusive to perusal To this hardened Editor the appearance of the book represents the end of a stamina testing saga surpassing any past experience Amongst the numerous authors a notably eminent bevy some were angelic and others suffered harassment to produce amidst day to day pressures an eventual article in the cause of receptor investigation few took exception to the strong editing that their material underwent The reader of this book will be interested rather in its aims and ba ground Does it merit a n his bookshelf The book is not a Proceedings but has sponsored meeting parentage Wi th company support notably from BetaHED Pharmaceuti cals of Indianapolis the 8th International Subcellular Hethodology Forum was held in July 1982 at the University of Surrey in Guildford The vigorous debates partly on aspects such as hormonal receptors and drug targeting then narrowed to Neuroreceptor Hethodology at a NATO Advanced Research Workshop perforce set up at short notice But Proceedings are proverbially ephemeral material reflecting an array of solo performances whereas this book is hopefully more like an orchestra s performance of classical together with new material Retrieval of receptor know how has been a key aim Locations in the text including comments and supplementary material designated NC are thoroughly indexed whilst for some aspects a Retrieval Key p 545 should be used Related to receptor methodo logy receptor features and phenomena get due attention in the text *Handbook of Natural Toxins* M. Carolyn Hardegree,Anthony T. Tu,1988-08-05 Volume 4 **Botulinum Neurotoxin and Tetanus Toxin** Lance Simpson,2012-12-02 Botulinum Neurotoxin and Tetanus Toxin covers the mechanism of action pathogenesis and treatment of clostridial neurotoxins The book is organized into four parts encompassing 18 chapters that discuss the origin structure pharmacology toxicology immunology assays and clinical issues of botulinum and tetanus neurotoxins The introductory part of the book discusses the discovery and production of neurotoxins in various strains of Clostridium bacteria This text also describes how specific bacteriophages and plasmids mediate the pathogenicity of some types of Clostridium botulinum and Clostridium tetani The subsequent part provides an overview of issues related to toxin binding including toxins that may serve as models for botulinum and tetanus neurotoxins Discussions on the peripheral and central aspects of poisoning

transport in the central nervous system and on the antagonistic drugs for clostridial neurotoxins are provided The third part of the book addresses the antibodies against botulinum neurotoxin Bioassay in mice and highly sensitive immunoassays such as reversed passive hemagglutination reversed passive latex agglutination radioimmunoassay and enzyme linked immunosorbent assay are presented The concluding part covers the animal models for these toxins and discusses the diagnosis and treatment of botulism and tetanus in human The clinical use of *Clostridium botulinum* toxin type A in ocular and neuromuscular disease is also examined This book will be of value to protein chemists microbiologists virologists pharmacologists immunologists and clinicians

**Published Scientific Papers of the National Institutes of Health**  
National Institutes of Health (U.S.),1982 Each issue lists papers published during the preceding year

*Pathogenesis of Shigellosis* P.J. Sansonetti,2012-12-06 Shigellosis is present all over the world Anyone traveling in developing countries knows that the control of this invasive disease of the intestine is a priority task for physicians and public health authorities Victims are essentially young children and complications such as the hemolytic uremic syndrome make shigellosis a systemic disease rather than simply an infection of the colonic mucosa However Westerners should not consider shigellosis as an unlikely threat of the tropics The disease arises in industrialized countries as soon as breaches in sanitation appear A few months ago at least 500 people developed shigellosis in northern France in an outbreak of *Shigella sonnei* infection due to accidental contamination of an urban water delivery system The pathogenesis of shigellosis is an extraordinary topic of research because study of the invasion of the colonic mucosa addresses fundamental questions on the molecular and cellular mechanisms by which a bacterial pathogen can penetrate non phagocytic cells survive multiply spread in the intracellular compartment and eventually kill host cells Further development of the infection within subepithelial tissues as well as the mechanisms that contribute to the eradication of this process have barely been studied

*Cytobios* ,1988

**Minimal Residual Disease in Acute Leukemia** B. Löwenberg,A. Hagenbeek,2013-11-11 The objective of the treatment of acute leukemia involves the eradication of all neoplastic cells including the last one Ideally treatment should be controlled by monitoring cell kill If the last cells could be discovered and their biological properties be determined the qualitative and quantitative effects of treatment should be directly evaluable This should ultimately permit a calculated tumor cell reduction thereby avoiding overtreatment and excessive toxicity and thus providing a basis for individualized antileukemic treatment In recent years several new developments have contributed to the selective discovery of minimal numbers of leukemic cells which are hidden among the normal cells in the marrow cavities These methods are the first steps to the realization of the therapeutic goals indicated above They include the production and application of monoclonal antibodies against differentiation antigens on the cell surface the use of pulse cytophotometry and cell sorter techniques the employment of cytogenetics the development of culture techniques for selective growth of precursor cells and several others These methodologies offer prospects for refined diagnosis and as far as the elimination of leukemic cells is concerned the further

development of autologous bone marrow transplantation Eliminating tumor cells from autologous grafts requires the detailed knowledge of the cellular inter relationships within the neoplasm so that the neoplastic cells responsible for tumor propagation are specifically removed Recognition and characterization of the clonogenic cells of the neoplasm should then lead to determining their sensitivity to the therapeutic agents which are clinically applied Tracer Kinetics and Physiologic Modeling R.M. Lambrecht,A. Rescigno,2013-03-09 *The Receptors* P. Michael Conn,2014-05-10 The Receptors Volume III deals with receptors for interferons hormones and growth factors as well as for aminobutyric acid tuftsin somatomedin and insulin Prolactin and nicotine receptors are also considered along with the protein tyrosine kinase activity of hormone and growth factor receptors Comprised of 12 chapters this volume begins with a detailed account of secretory component SC as a receptor for polymeric immunoglobulins and the importance of SC polymeric immunoglobulin A interactions in the mucosal immune system The discussion then turns to interferon receptors and what is known about the fate of interferons and their receptors after binding the use of muscimol in ligand binding studies aimed at characterizing aminobutyric acid receptors and the role of protease nexins in the interaction of proteases with cells and in the regulation of proteolytic activity in the interstitial fluid immediately surrounding cells Subsequent chapters focus on receptor regulation of phosphoinositides and calcium effects of phospholipid turnover on receptor function dynamics of tuftsin receptors and the structure function and regulation of somatomedin receptors The book also examines the internalization and intracellular processing of insulin receptors before concluding with an analysis of prolactin and nicotine receptors This monograph will be a valuable resource for students and practitioners in fields ranging from cell biology and biochemistry to physiology endocrinology and pharmacology

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avogadro s constant in honor of the italian physicist amedeo avogadro

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