

Biochemistry By Jp Talwar

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VANESSA MATHIAS

Diabetes Literature Index Springer Science & Business Media
 Immunopharmacology: A New Discipline of Immense Potential Among the looming triumphs of the biologic revolution is the rapidly developing understanding of the mechanisms of bodily defense. In the short span of 35 years, knowledge of immunologic machinery has progressed from crudest description to major understanding in cellular and molecular terms. Antibodies, immunoglobulins, and the complement system have been almost completely defined in detailed molecular terms. Organs, like thymus, spleen and lymph nodes-so long enigmatic black boxes-are beginning to be understood not only in cellular terms but in molecular, physiologic, and endocrinologic terms.

With this surging new information about the immune system comes the possibility of developing a pharmacology which can modulate and control immunologic functions. Immunopharmacology most broadly conceived must address (1) control of development and function of the cellular components of the immunologic apparatus; (2) facilitation and suppression of function of the immunologically competent cells of the several subclasses, like T helpers, suppressors, and effectors, and B effectors and suppressors; (3) manipulation and repair of the major biologic amplification systems, e. g. , the complement system and kinin-kallikrein system, and (4) utilization, modulation, and inhibition of the galaxy of molecules generated by T lymphocytes, the lymphokines. This new pharmacology must deal with the fundamental effector mechanisms of immunity, namely inflammation, phagocytosis, vascular

reactivity, and blood coagulation. Furthermore, immunopharmacology must address and manipulate cell-cell communication and interaction, so vital to control of the immunological apparatus. Springer Science & Business Media Recent Progress in Hormone Research, Volume 31 covers the proceedings of the 1974 Laurentian Hormone Conference held in Mount Tremblant, Quebec, Canada, on August 25-30, 1974. The book discusses the relationship between catecholamines and other hormones; the hormone receptor complexes and their modulation of membrane function; and receptors for insulin, NSILA-s, and growth hormone. The text also describes the mechanism of action of pituitary growth hormone; hormonal regulation of ovalbumin synthesis in the chick oviduct; and studies on the hepatic glucocorticoid receptor and on the hormonal modulation of specific mRNA levels during enzyme

induction. The endocrine neurons; the formation of estrogens by central neuroendocrine tissues; and the operating characteristics of the hypothalamic-pituitary system during the menstrual cycle and observations of biological action of somatostatin are also considered. The book further tackles somatostatin; the relationship of sleep and sleep stages to neuroendocrine secretion and biological rhythms in human; and the genetic approaches to the study of the regulation and actions of vasopressin. The identification and actions of gastric inhibitory polypeptide; the studies on the pathogenesis of Graves' ophthalmopathy, and qualitative and quantitative gonad-pituitary feedback is also looked into.

From Physiology and Chemistry to Biochemistry PHI Learning Pvt. Ltd.

Contributed research papers presented in two symposiums; one named Symposium on "History of Biochemistry and Molecular Biology in India" dedicated to the 80th birthday of Prof. Sushil Kumar Mukherjee on 8th Feb., 1993, held at Varanasi, India.

Critical Reviews in Tropical Medicine Academic Press

Biochemistry of Brain is a collection of articles dealing with the developments in the biochemistry of the brain. This book gives a comprehensive and critical discussion of important developments in studies concerning the above subject. This text discusses the structure, function, and metabolism of glycosphingolipids, which are related to the study of sphingolipid storage diseases. Inborn defects of metabolism are found in Gaucher's and Fabry's disease, which are characterized by lipid accumulation in the brain. Another paper reviews the chemical and genetics of critically lysosomal hydrolase deficiencies that can cause the storage of sphingolipids. This book then explains the role of myelin basic protein in lipids in vivo that the weak bonding of the protein is not a major component of myelin stability. Another paper discusses the procedures for isolating subfractions of myelin and myelin-related membranes, with some attention given on the alterations in the subfractionation of myelin in pathological hypomyelinating and demyelinating conditions. Another article discusses the biochemical and enzymatic composition of lysosomes and the biosynthesis, intracellular transport, storage, and the degradation of lysosomal constituents. This collection of papers will benefit scientists doing research in microbiology, microchemistry, molecular genetics, and neurochemistry.

Subcellular Biochemistry John Wiley & Sons

This book explains the growing field of syndemic theory and research, a framework for the analysis and prevention of disease interactions that addresses underlying social and environmental causes. This perspective complements single-issue prevention strategies, which can be effective for discrete problems, but often are mismatched to the goal of protecting the public's health in its widest sense. "Merrill Singer has astutely described why health problems should not be seen in isolation, but rather in the context of other diseases and the social and economic inequities that fuel them. An important read for public health and social scientists." —Michael H. Merson, director, Duke Global Health Institute "Not only does this book provide a persuasive theoretical biosocial model of syndemics, but it also illustrates the model with a wide variety of fascinating historical and contemporary examples." —Peter J. Brown, professor of Anthropology and Global Health and director, Center for Health, Culture, and Society, Emory University "The concept of syndemics is Singer's most important contribution to critical medical anthropology as it interfaces with an ecosocial approach to epidemiology."

—Mark Nichter, Regents Professor, Department of Anthropology, University of Arizona "Merrill Singer offers the public the most comprehensive work ever written on this key area of research and policy making." —Francisco I. Bastos, chairman of the graduate studies on epidemiology, Fundacao Oswaldo Cruz "Exquisitely describes how this new approach is a critical tool that brings together veterinary, medical, and social sciences to solve emerging infectious and non-infectious diseases of today's world."

—Bonnie Buntain, MS, DVM, diplomate, American College of Veterinary Preventive Medicine "For too long the great integrative perspectives on modern biomedicine and public health disease ecology and social medicine have remained more or less separate. In this innovative and provocative book, Merrill Singer develops a valuable synthesis that will reshape the way we think about health and disease." —Warwick H. Anderson, MD, PhD, professorial research fellow, Department of History and Centre for Values, Ethics, and the Law in Medicine, University of Sidney

Immunopharmacology Elsevier

This book is based on the proceedings of a symposium organized on the occasion of the 80th birthday of Professor G.P. Talwar, jointly by the National Institute of Immunology, New Delhi and the All India Institute of Medical Sciences, New Delhi

Chorionic Gonadotropin CRC Press

New information is developing so rapidly in the entire field of immunology that one is unable to remain abreast of all advancing fronts. In many cases, considerable information has accumulated as the result of the efforts of many investigators, but the conclusions from the various laboratories have not been summarized recently in a comprehensible manner. One such situation has to do with work on IgD. An up-to-date report on this immunoglobulin was included in Volume 10 of this series, but since that time there has been considerable progress in the determination of its structure and function. In the present volume Leslie and Martin have reviewed the accomplishments of recent years and the problems remaining to be solved. New information regarding the concentration of IgD in body fluids in normal and disease states is presented. Studies of the ontogeny of surface IgD in animals are described, and the findings imply that it may be important in the primary immune response. The role of IgD on lymphocyte surfaces is thoroughly discussed especially in terms of stimulating or suppressive combinations of signals delivered to the lymphocyte by agents which bind or alter the surface receptors. The authors conclude by proposing a model for plasma-cell differentiation which accounts for the existence of triple Ig-bearing cells, many IgM-IgD-bearing cells, and the low percentage of cells bearing a single isotype. Sometimes the serum of an individual contains abnormally large amounts of two distinct, homogeneous populations of immunoglobulins.

Contemporary Topics in Molecular Immunology Academic Press

TEXTBOOK OF BIOCHEMISTRY, BIOTECHNOLOGY, ALLIED AND MOLECULAR MEDICINE PHI Learning Pvt. Ltd.

Macromolecules and Behavior Elsevier

From Physiology and Chemistry to Biochemistry features ten prominent scientists offering perspectives and insights from the fields of physiology, plant biology, microbiology, genetics, biophysics, molecular biology, immunology and biotechnology to answer questions with regard to India. They examine major discoveries, developments and research that shaped the direction of the discipline along with the research groups and institutions involved. Issues such as ethical implications of new developments in biotechnology, and practical applications of research in agriculture, medicine, forensics, industry are discussed.

A Comprehensive Treatise Springer

Science & Business Media

The explosive accumulation of new knowledge in the biological sciences in the last decades has advanced our understanding of the basic mechanisms that underlie most biological phenomena. These advances, however, have not been uniform but have varied considerably among the different biological problems. In some cases, e.g., biochemical genetics, radical advances have been made which have changed our ideas and our approaches. In other cases, even with work which has yielded much detailed new knowledge, our understanding of basic mechanisms remains very inadequate. Among the lines of work that have not yet led to dramatic conceptual advances is the problem of control of biological activities. This problem is, of course, basic both to any full understanding of life as a whole, and to any real understanding of its most minute phenomena. Indeed, the myriad of biological activities that we can observe by direct or indirect means are all under the sway of most exquisitely precise mechanisms. Any malfunctioning of these mechanisms has serious consequences, not only for the particular function itself, but for all the related and interlinked activities.

Textbook of biochemistry and human biology Elsevier

Hormonal Steroids contains the plenary and symposium lectures delivered to the Fifth International Congress on Hormonal Steroids held at New Delhi on October 30 to November 4, 1978. The plenary lectures include biochemical actions of trophic hormones and steroids on steroid production and spermatogenesis in testes; chemical reactions of steroids which imitate the selectivity of enzymatic transformations; and human chorionic gonadotrophin and ovarian and placental steroidogenesis. Symposia papers comprise of water-soluble steroidal anesthetics; quality control of radioimmunoassay of hormones in reproductive physiology; automation of steroid radioimmunoassay for clinical and research purposes; non-radioisotopic homogeneous steroid immunoassays; mechanisms involved in the regulation of steroid receptor levels; and metabolic effects of corticosteroid therapy in post-menopausal women.

Indian Journal of Experimental Biology Springer Science & Business Media

Since its inception in 1945, this serial has provided critical and integrating articles written by research specialists that integrate industrial, analytical, and technological aspects of biochemistry,

organic chemistry, and instrumentation methodology in the study of carbohydrates. The articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry. Features contributions from leading authorities and industry experts Informs and updates on all the latest developments in the field

Regulation of Growth and Differentiated Function in Eukaryote Cells Springer Science & Business Media

Can we cherish the environment, and rights, too? When eco-activists get the upper hand, strange things can happen - especially if government or corporate interests are behind them. Studies a wide range of specific cases and the politics, tactics, social,

Synthetic Peptides as Antigens Pearson Education India

Assesment of research work done in India on population control; v. 1 relates to behavioral research on fertility and fertility control.

Regulation of Gene Expression in Eukaryotic Cells Elsevier

Biochemical Actions of Hormones, Volume V explores the nature of interaction of multiple hormones in regulating specific phenotypes. This volume is organized into 11 chapters that include discussions on the developments in the understanding of the biochemistry and molecular biology of hormones. The opening chapters deal with the modifications of chromatin structure by hormones, the regulation of exocytosis, ontogeny of estrogen receptors, and the hormonal regulation of cells of the seminiferous tubule. The discussions then shift to the advances on the progesterone receptor, the role of glucocorticoids in the integration of mammary tumor virus genes, and a model system for estrogen action. Other chapters examine the physiology, molecular action, and biological effects of somatomedins, epidermal growth factors and 1,25-dihydroxyvitamin. The remaining chapters focus on multihormone control of mRNA for a specific hepatic protein. This book is of great value to endocrinologists.

Chemical Architecture of the Nervous System Springer Science & Business Media

This volume is devoted to the chemistry, immunology, molecular biology, and physiology of the human chorionic gonadotrophin, heG. For this glycoprotein molecule the course from discovery to chemical deciphering covered about fifty years. It was in 1928 that Ascheim and Zondek reported that urine from pregnant women contains something that stimulates the ovaries of mice or rats. This provided the basis for the famous A-Z test

for pregnancy and for the "rabbit test" modification introduced by Friedman. As researchers sought to find more sensitive responses to heG, they used a wide variety of species including the South African aquatic toad, *Xenopus Zaevis*, the terrestrial toad of South America, *Bufo arinarus*, and the African weaver finch, *EupZeetes afra*. The weaver finch feather reaction was particularly noteworthy, for it disclosed a non-gonadal response to heG/LH. In retrospect, this may have been an important evolutionary clue to the realization that the designation of the hormone as a "gonadotropin" may have been only partially descriptive of the molecule's physiological function--a concept that is gaining attention, as the papers in this 1980 volume divulge. *Biochemistry Abstracts* Springer Science & Business Media

At the present time there are renewed global efforts to control the major tropical infections and to stem the tide of malnutrition, the two serious, often intertwined, problems that contribute to much of the morbidity and mortality in under privileged populations. Many international organizations have joined hands with national governments and with the private sector to search for new approaches to problems that beset much of the developing world, including countries in the tropical region. This volume continues the tradition of the previous publication in the Series. A variety of fare is offered to readers: explanations of the activities and achievements of the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases; and studies of infant mortality, schistosomiasis, trypanosomiasis, helminths, lactase deficiency, oral rehydration therapy, functional consequences of iron deficiency, and fertility control. Au thoritative state-of-the-art reviews provide a critical analysis of recent data. I hope the Series will continue to prove useful to all those working in the tropics and to those in the industrialized countries whose awareness of physical health problems of the Third World is relatively limited. R. K. Chandra St. John's, Newfoundland VII Contents Chapter 1. The Special Programme for Research and Training in Tropical Diseases DAVID S. ROWE 1. Origins, Objectives, and Diseases. 1 2. The Modus Operandi of the Programme. 3 2. 1. Scientific Working Groups. 3 2. 2. Research Strengthening Group. 7 2. 3. The Scientific

and Technical Advisory Committee.
 . . 7 2. 4. Joint Coordinating Board.

Indian Journal of Biochemistry and Biophysics Springer Science & Business Media

Metabolic Inhibitors: A Comprehensive Treatise, Volume IV reviews developments in studies of inhibition of metabolic and enzymic processes ranging from photosynthesis and blood clotting to protein synthesis, fatty acid metabolism, and phospholipid metabolism. The book also explores the inhibition of specific enzyme reactions, such as amino acid activation, amino acid hydroxylation, and cyclic AMP formation. Organized into nine chapters, this volume begins with an overview of allosteric inhibition and inhibitors, and then discusses amino acid hydroxylase inhibitors. The reader is also introduced to inhibitors and activators of enzymes that regulate the cellular concentration of cyclic AMP. In particular, the book describes the role of lipids in the activation of adenyl cyclase by hormones; modification of adenyl cyclase in various physiological and pathological conditions; and synthesis of glycerophosphatides as well as phospho- and glycosphingolipids. This book is a valuable source of information for biochemists and medical research workers as well as virologists, microbiologists, plant physiologists, and agronomists.

Advances in Carbohydrate Chemistry and Biochemistry Algora Publishing

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and RNA.- 4. Macromolecules and Brain Function.- 5. Inhibitors of Cerebral Protein or RNA Synthesis and Memory.- 6. Biological Assays for the Molecular Coding of Acquired Information.- 7. Biological Activity of Antibrain Antibody-an Introduction to Immunoneurology.- 8. Correlation of the S-100 Brain Protein with Behavior.- III. Macromolecules and Intracellular, Intercellular, and Synaptic Events.- 9. Axoplasmic Flow-The Fast Transport System in Mammal.
Biochemical Actions of Hormones Elsevier
 The Fourth Edition of the compendium pools together the knowledge and experience of experts from all over the world, who are engaged in teaching and research in the field of biochemistry, medical sciences and allied disciplines. Comprising 20 sections, the present edition of the book has been substantially revised incorporating the latest research and achievements in the field. Beginning appropriately with chemical architecture of the living systems, role and significance of biochemical reactions, organization of specialised tissues, and importance of food and nutrition, the book explores beyond traditional boundaries of biochemistry. The knowledge of various organ systems has been expanded covering their normal function, ailments and dysfunction. A chapter on Eye and Vision explaining molecular basis of cataract and glaucoma have been added. Also, the book introduces stem cells and regenerative therapy and defines molecules associated with pleasure, happiness, stress and anxiety. A Section on Gastrointestinal and Biliary System elaborates on physiology and dysfunction including fatty liver and its implications,

and hepatitis viruses. The knowledge of Human Genetics and Biochemical Basis of Inheritance has been appropriately expanded to reflect the latest advances in various domains. Besides DNA fingerprinting for identity establishment, the Section discusses epigenetics, micro-RNA and siRNA including their role in gene expression, chromatin modification and its association with human diseases, and genetic engineering. It also explores emerging areas such as metabolomics and proteomics; synthetic biology; and dual use technology in bioterrorism. Due emphasis has been given to the Section on Cell Replication and Cancer. Emergence of the use of probiotics in human health has also been highlighted. Besides, an entire Section has been devoted to male and female reproductive systems, fertilization, implantation, pregnancy, lactation, and assisted reproductive technology. Immunology, including vaccines and immunization, has been given due attention with latest updates in this fast growing area. Modern medicine, despite its stupendous advances cannot provide cure for all ailments. Thus, the new edition provides knowledge of alternative medicine systems—Ayurveda, Homeopathy, Unani, Yoga and Herbal Medicine. Incorporating vast information on the latest and emerging areas, the book will be of immense value to the students of medical sciences not only in their preclinical years, but also in all phases of medical course including postgraduate education and practice. Besides, it will also serve as a valuable source to the students of biochemistry and human bi

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