

Nitric Oxide Cytochromes P450 And Sexual Steroid Hormones

[Index of Conference Proceedings](#) - British Library. Document Supply Centre 1998

Signal Transduction and the Gasotransmitters - Rui Wang 2004-06-11

Gasotransmitters-principally nitric oxide (NO), carbon monoxide (CO), and hydrogen sulfide (H₂S)-are endogenous signaling molecules that play a significant role in the biomedical, clinical, and health sciences, as well as in population health studies. In *Signal Transduction and the Gasotransmitters: NO, CO, and H₂S in Biology and Medicine*, a panel of distinguished researchers and clinicians review the biological and biomedical aspects of gasotransmitters, emphasizing their signaling transduction mechanisms in general, and ion channel regulation in particular. The authors discuss the endogeneous metabolism and regulation of gasotransmitters, their toxicological profiles and biological actions, and their interactions in terms of their production and effects. The physiological roles of NO, CO, and H₂S in the regulation of the cardiovascular, neuronal, and gastrointestinal systems, as well as of cell metabolism, are also reviewed, along with the interaction of the gastrotransmitters with KATP, K_{Ca} voltage-gated Ca²⁺, voltage-gated Na⁺, and cyclic nucleotide-gated ion channels. Included in the array of different mechanisms for the interaction of NO, CO, and H₂S are channel phosphorylation, S-nitrosylation, carboxylation, sulfuration, and altered cellular redox status. The authors also offer guidance and suggestions for exploring and further characterizing other still unknown gasotransmitters. Authoritative and comprehensive, *Signal Transduction and the Gasotransmitters: NO, CO, and H₂S in Biology and Medicine* offers clinical scientists and physicians not only a deeper understanding, but also a cutting-edge review, of the critically important field of gasotransmitter biology and medicine.

Regenerative and Cell Therapy - A. Keating 2007-01-19

This book gives an updated review of the state of the art in regenerative cell therapy in the fields of cardiology, hematology, pediatrics, neurology, orthopedics and infectious diseases. The book emphasizes the clinical advances as proof of concept in cell therapy based on the revolutionizing observation that regeneration can occur throughout the body even in highly differentiated organs like the heart and the neuronal system. It provides examples of breakthroughs in the clinical implementation of adult stem cell therapy.

Biocombinatorial Approaches for Drug Finding - W. Wohlleben 2007-01-19

Genome- and proteome-based research is generating a significant increase in the number of available drug targets. Correspondingly there is an increasing need for novel, diverse compounds, particularly based on natural compounds, as screening resource. The purpose of the Ernst Schering Research Foundation Workshop 51 was to provide a forum for an open exchange on perspectives and limitations of biocombinatorial synthesis and the significance of this technology for future drug discovery in light of this challenge. Experts from academia and industry provided contributions covering: the significance of natural compounds for state-of-the-art drug discovery; the underlying basic principle for the biosynthesis of highly complex compounds; and the scope and limitations of combinatorial biosynthesis regarding formation, identification, optimisation, isolation and manufacturing of novel biologically active entities.

Nitric Oxide, Cytochromes P450, and Sexual Steroid Hormones - Jack R. Jr. Lancaster 2013-03-09

The discovery of mammalian nitric oxide (NO) synthesis from L-arginine has led to a profound increase in our understanding of basic physiological and pathophysiological processes. The NO-dependent regulation of steroidogenic cytochromes P450, such as aromatase, and local, tissue-specific regulation of NOS isoform expression by sexual steroid hormones, such as estrogen and progesterone, promises to provide new insights into the regulation of endocrinological processes. Research on the interaction between the NO and sexual steroid systems are likely to lead to novel therapeutic concepts for use in diseases associated with perturbations of the endocrine system.

Omega-3 Fatty Acids - Mahabaleshwar V. Hegde 2016-09-15

This volume argues for the importance of essential nutrients in our diet. Over the last two decades there has been an explosion of research on the relationship of Omega-3 fatty acids and the importance of antioxidants to human health. Expert authors discuss the importance of a diet rich in Omega-3 Fatty acids for successful human growth and development and for the prevention of disease. Chapters highlight their contribution to the prevention and amelioration of a wide range of conditions such as heart disease, diabetes, arthritis, cancer, obesity, mental health and bone health. An indispensable text designed for nutritionists, dietitians, clinicians and health related professionals, *Omega-3 Fatty Acids: Keys to Nutritional Health* presents a comprehensive assessment of the current knowledge about the nutritional effects of Omega-3 fatty acids and their delivery in foods.

The Cumulative Book Index - 1998

A world list of books in the English language.

Free Radicals and Inflammation - Paul G. Winyard 2013-03-11

As in so many fields of scientific endeavour following the molecular biology revolution, our knowledge of the role of radicals not only in pathological states, but in basic physiology has developed exponentially. Indeed, our evolving concepts have, like so many political parties, been forced into dramatic "V-turns" and contortions. Within our working lives, we have had to debate whether radicals made any contribution to any pathology, whilst now it is difficult not to entertain the view that every physiological process is pivotally controlled by exquisitely sensitive radical reactions. Inflammation is, of course, an example of pathology evolving from physiology, and in this book we have called upon both scientists and clinicians who have research interests in the complex switching mechanisms that sustain these transitions. The book as a whole explores, from a physiological standpoint, how deterministic radical systems sensitive to their initial conditions can interdigitate, iterate and feed back to control diverse cellular processes that create the inflammatory response. Whilst systems such as these to a mathematician would provide the basis for a chaotic response, one is forced to marvel how, for all stages of an inflammatory reaction, this system appears exquisitely controlled, making therapeutic manipulation both possible and, to some extent, predictable.

Interferon: The Dawn of Recombinant Protein Drugs - J. Lindenmann 2013-06-29

Forty years of Interferon I wish to dedicate this short introduction to the memory of Alick Isaacs (1921-1967), and to that of Sir Christopher Andrewes (1896-1988). Let us go back more than 40 years. In 1956 Isaacs was in charge of the Wodd Influenza Centre. Andrewes was head of the division of bacteriology and virology, and deputy director of the National Institute for Medical Research in London. When researchers are faced with a seemingly new phenomenon, explanations are easy to come by. These explanations fall into two broad categories: the phenomenon in question is either due to something or to the lack of something. I apologize for the primitive way in which I express this, but I am going to give three examples, scattered over 100 years, of what I mean. First example: in 1880 the great French microbiologist Louis Pasteur was involved in work on chicken cholera. He was struck by the following observation: if a suitable chicken broth was inoculated with the bacterium, the organism grew profusely and the liquid became turbid. If he now freed the fluid, by sedimentation or filtration, from the bulk of the organisms and re-inoculated it with the same bacterium, no growth occurred.

The Role of Natural Products in Drug Discovery - J. Mulzer 2013-04-17

Natural Products have been important sources of useful drugs from prehistoric times to the present. This book gives an overview about this field and provides important recent contributions to the discovery of new drugs generated by research on natural products. Total synthesis of natural products with interesting biological activities is paving the way for the preparation of new and improved analogs. The methods of

combinatorial chemistry permit the selection of the best drug from a large number of candidates. Beyond synthesis and evaluation of organic molecules a number of new bioorganic methods are coming to the fore and will be discussed in this issue of the Ernst Schering Research Foundation workshop proceedings.

Chemical Genomics - Stefan Jaroch 2007-05-26

Chemical genomics is a highly interdisciplinary and very exciting field of research both in academics and in the life sciences industry. The Ernst Schering Research Foundation Workshop 58 was organized to bring together scientific leaders in the field to discuss the implications of chemical genomics for drug discovery. Various aspects of the interface between chemistry and biology are covered in this volume, such as chemogenomics efforts in the pharmaceutical industry, diversity-oriented synthesis, chemogenomic approaches to the study of cell function, screening technologies, and natural products as tools in chemical biology.

American Book Publishing Record Cumulative 1998 - R R Bowker Publishing 1999-03

New Molecular Mechanisms of Estrogen Action and Their Impact on Future Perspectives in Estrogen Therapy - Kenneth S. Korach 2013-11-11

From our current knowledge, it is obvious that estrogen action involves more than reproduction and fertility. Rather, estrogens affect and influence a number of other organ systems such as the immune, cardiovascular and central nervous system as well as the gastrointestinal tract, urinary tract and skeleton. The importance of estrogens and estrogen receptor activity is appreciated from the spectrum of significant physiological dysfunctions that occur when there is a loss of the hormone or the receptor activity. Loss of estrogen, however (for instance during menopause), occurs with time and results in a variety of clinical conditions. We know that the developmental loss of estrogen, as seen in clinical cases of aromatase gene mutations and experimental models, has dramatic effects in both men and women alike. The evidence that these effects are mediated through the estrogen receptor(s) is based on similar but not always identical phenotypes as observed in experimental animal models of estrogen receptor mutations as well as the single clinical case of an estrogen receptor alpha mutant patient. Developing an understanding of the spectrum of estrogen in a variety of tissues related to the condition of estrogen loss is a major and highly active clinical as well as basic scientific research area. Following the discovery of a second estrogen receptor and possible receptor ligand-independent activity as well as the genomic and non genomic actions of estrogen, it is clear that the mechanisms of the effects of estrogen are multifaceted.

Neuroendocrine Immune Basis of the Rheumatic Diseases II - Maurizio Cutolo 2002

Proceedings of a September 21-23, 2001 conference. The papers in this volume examine the basic biochemical pathways from hormone metabolism to immune and inflammatory responses, as well as the effects of cytokines and glucocorticoid interactions in inflammatory diseases such as rheumatoid arthritis. Additional papers study the CNS and stress response involvement in autoimmune diseases including SLE (Systemic Lupus Erythematosus). Included are two overview articles that review the basic and clinical progress made over the past ten years in understanding and treating the rheumatic diseases.

Textbook of Biochemistry with Clinical Correlations - Thomas M. Devlin 2010-01-19

A comprehensive and fully updated edition filled with over 250 clinical correlations This book presents a clear and precise discussion of the biochemistry of eukaryotic cells, particularly those of mammalian tissues, relates biochemical events at a cellular level to the subsequent physiological processes in the whole animal, and cites examples of abnormal biochemical processes in human disease. The organization and

content are tied together to provide students with the complete picture of biochemistry and how it relates to human diseases. Loaded with new material and chapters and brimming with detailed, full-color illustrations that clearly explain associated concepts, this seventh edition is an indispensable tool for students and professionals in the medical or health sciences.

Von der Wahrnehmung zur Erkenntnis - From Perception to Understanding - Monika Lessl 2007-01-19

Der vorliegende Band ist eine Zusammenfassung der Beiträge, die auf einem Symposium mit dem Titel "Von der Wahrnehmung zur Erkenntnis" am 7. Februar 2004 in Berlin stattfand. Anlass war der sechzigste Geburtstag von Professor Dr. Dr. h.c. Günter Stock, Vorstand der Schering AG im Bereich Forschung und Begründer der Schering Forschungsgesellschaft. In dieser Publikation laden Sie international führende Wissenschaftler zu einer Reise ein, die von der Wahrnehmung zur Erkenntnis von einem evolutionären Rückblick "Woher kommen wir, was macht uns erkenntnisfähig" bis hin zur Philosophie des Erkennens führt. Im Zentrum der Betrachtung steht dabei der Mensch und seine Wahrnehmung.

Gene Therapy - Robert E. Sobol 2013-11-11

This book is a collection of preclinical and clinical reports on the application of gene therapy to human disease. The two methods available for delivering therapeutic genes to diseased cells, viral and non-viral vector systems, are detailed and characterized. Several reports describe both approaches currently used in gene therapy: the introduction of a wild-type gene to restore normal gene function in diseased cells, and the use of antisense molecules to hinder abnormal gene expression. Clinical studies detail several different strategies for the treatment of cancer and cardiovascular diseases, using genetic material as therapeutic agents. The regulatory issues governing the use of gene therapy in Europe and the United States are also presented. This book highlights the range of applications and demonstrates the rapid progress being made in the field of gene therapy.

Leucocyte Trafficking - A. Hamann 2013-06-29

An essential component of inflammation is the migration of circulating leukocytes from blood into tissues. This process is characterized by a multistep paradigm of sequential cell adhesion and activation events that lead to the extravasation of specific leukocyte subsets to different tissues in health and disease. The first step of leukocyte extravasation, the rolling of leukocytes, is primarily mediated by the interactions of selectins and their ligands. It has recently become evident that fucosyltransferases are crucial for selectin ligand synthesis, inflammation, and skin homing. This book provides an in-depth overview of the mechanisms of leukocyte trafficking and of the molecular mechanisms of selectin/selectin ligand interactions and discusses options for pharmacological intervention to treat inflammatory diseases.

Index Medicus - 2004

Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings.

Nitric Oxide in Bone and Joint Disease - Mika V. J. Hukkanen 1998-10-15

Nitric oxide research has emerged as one of the most important areas in bone and joint diseases. First published in 1998, this book draws together knowledge on the actions of this mediator and its role in such common diseases as arthritis and osteoporosis. It introduces the basic biology and biochemistry of nitric oxide, the immune response and bone biology. It reviews in depth the facts we know today and the future promise of this exciting area of research. The book will give scientists and clinicians a unique insight into this increasingly important area. It also emphasises potential treatments which exploit our understanding of the role of nitric oxide in bone and joint disease.

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