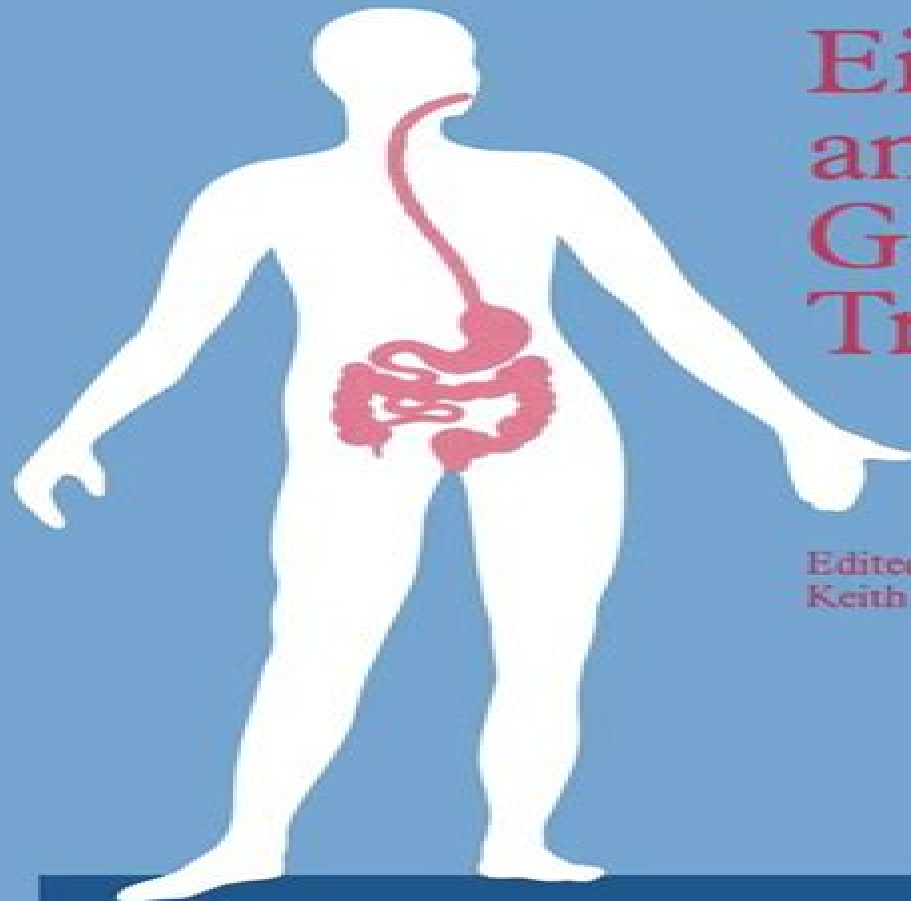


ADVANCES IN EICOSANOID RESEARCH

Series Editor : Keith Hillier

Eicosanoids and the Gastrointestinal Tract

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Eicosanoids And The Gastrointestinal Tract

P.V. Halushka, Dale E. Mais



Eicosanoids And The Gastrointestinal Tract:

Eicosanoids and the Gastrointestinal Tract K. Hillier, 2012-12-06 The original series *Advances in Prostaglandin Research* edited by Sultan M M Karim was published by MTP Press in three volumes in 1975 and 1976 A glance at those books illustrates the progress that has been made since then The thromboxanes were mentioned twice first publication 1975 and prostacyclin not once first publication 1976 leukotrienes were only on the horizon The amazing generation of research data in the last 10 15 years has given new broad insights into many areas including asthma inflammation renal cardiovascular and gastrointestinal diseases and in reproduction and has led in some instances to real clinical benefit This series *Advances in Eicosanoid Research* reflects the current understanding of prostaglandins thromboxanes and leukotrienes The aim is to provide an introductory background to each topic and the most up to date information available Although each book stands alone the eicosanoids cut across many boundaries in their basic actions selected chapters from each book in the Series will provide illuminating and productive information for all readers which will advance their education and research In the production of this series I must acknowledge with pleasure my collaboration with editors and authors and the patient endeavours of Dr Michael Brewis and the staff at MTP Press

Immunopharmacology of the Gastrointestinal System

John L. Wallace, 1993-03-01 Diseases of the digestive system have a higher morbidity rate than any other group of disorder There is a growing body of evidence that the immune system participates in the pathogenesis of a wide range of these diseases including peptic ulcer disease and the gastropathy induced by nonsteroidal anti inflammatory drugs NSAIDS For these reasons efforts to develop novel therapies for digestive diseases are increasingly focused on the immune system This volume reviews the immunopharmacology of the gastrointestinal tract at four distinct levels Immunomodulation at a cellular level Cellular targets for immunomodulating drugs Specific classes of inflammatory mediators Utility and mechanisms of action of glucocorticoids in the treatment of diseases of the gastrointestinal tract

Radiation and the Gastrointestinal Tract Andre Dubois, Gregory L. King, David R. Livengood, 1994-11-22 This book evolved from a two day 1993 International Symposium on Radiation and the Gastrointestinal Tract held at the Uniformed Services University of the Health Sciences Bethesda Maryland This area of investigation is particularly important because of growing medical needs and the documented occurrence of accidents involving overexposure of healthy subjects patients Some questions have been answered through cellular and animal research results that lead to hypotheses that have been tested through clinical protocols In an attempt to answer the unresolved questions basic scientists and clinicians describe the data obtained to date present in a critical manner the consensus that has been reached and discuss what still remains to be investigated The book is divided into five parts Overview and Clinical Perspective Emesis Motility Diarrhea and Behavioral Correlates of Gastrointestinal Dysfunction Each part consists of separate discussions on the pathophysiology the methodology and when applicable the clinical relevance of the observations The book provides helpful information to both basic scientists involved in

radiobiological research and to clinicians caring for patients exposed to radiation It also serves as an introduction to the subject for young clinical investigators interested in the field and for scientists searching for correlates between their observations and disorders of the gastrointestinal tract

Drugs Affecting Leukotrienes and Other Eicosanoid

Pathways G. Velo,2012-12-06

The Eicosanoids

Peter Curtis-Prior,2004-07-16 This comprehensive reference work updated from the first edition brings together the knowledge and expertise of contributors from around the world It includes new topics such as prostaglandin synthetase enzyme new synthetic eicosanoids innovative analytical methods the influence of cytokines in the regulation of synthesis and actions newer eicosanoids that influence the cardiovascular system and newly discovered roles in reproduction and interactions with nitric oxide This book satisfies a surge of interest in prostaglandins NSAIDS e g aspirin are the biggest selling drugs of all time and the field has been refreshed by the advent of new types selective COX 2 inhibitors anti leukotiene drugs

Eicosanoids in the Cardiovascular and Renal Systems P.V. Halushka,Dale

E. Mais,2012-12-06 The original series Advances in Prostaglandin Research edited by Sultan M M Karim was published by MTP Press in three volumes in 1975 and 1976 A glance at those books illustrates the progress that has been made since then The thromboxanes were mentioned twice first publication 1975 and prostacyclin not once first publication 1976 leukotrienes were only on the horizon The amazing generation of research data in the last 10 15 years has given new broad insights into many areas including asthma inflammation renal cardiovascular and gastrointestinal diseases and in reproduction and has led in some instances to real clinical benefit This series Advances in Eicosanoid Research reflects the current understanding of prostaglandins thromboxanes and leukotrienes The aim is to provide an introductory background to each topic and the most up to date information available Although each book stands alone the eicosanoids cut across many boundaries in their basic actions selected chapters from each book in the series will provide illuminating and productive information for all readers which will advance their education and research In the production of this series I must acknowledge with pleasure my collaboration with editors and authors and the patient endeavours of Dr Michael Brewis and the staff at MTP Press

Essential Fatty Acids and Eicosanoids Yongsheng Huang,Shing Shyong Lin,Bochao Huang,2003-10-30

Eicosanoids

in Inflammatory Conditions of the Lung, Skin and Joints M.K. Church,C.F. Robinson,2012-12-06

The original series Advances in Prostaglandin Research edited by Sultan M M Karim was published by MTP Press in three volumes in 1975 and 1976 A glance at those books illustrates the progress that has been made since then The thromboxanes were mentioned twice first publication 1975 and prostacyclin not once first publication 1976 leukotrienes were only on the horizon The amazing generation of research data in the last 10 15 years has given new broad insights into many areas including asthma inflammation renal cardiovascular and gastrointestinal diseases and in reproduction and has led in some instances to real clinical benefit This series Advances in Eicosanoid Research reflects the current understanding of prostaglandins thromboxanes and leukotrienes The aim is to provide an introductory background to each topic and the most up to date

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Prostaglandins and Other Eicosanoids in the Cardiovascular System K. Schrör,1985-06-13

New Developments in Antirheumatic Therapy K. D. Rainsford,G.P Velo,2012-12-06 At present we may be at the cross roads in the therapeutic approaches we have for the treatment of the 100 or more rheumatic conditions This is because we now recognise that although some advances have been made with the development of a large range of non steroidal and steroidal drugs during the past two decades or so we now recognise that many if not all of these have rather limited effects on many of the disease processes which underlie the manifestations of the various rheumatic states Advances in molecular biology in the past 50 years have enabled these tools to be applied extensively for developing further our understanding of the rheumatic disease processes In some cases these molecular tools e.g. interferon, interleukin 2, T cell antibodies have been directly employed as therapies themselves While the outcome from trials with such agents in rheumatoid arthritis in particular has not been as would have been hoped these results as with cyclosporin A and low dose methotrexate in the therapy of rheumatoid arthritis have given us important indications for the approach employing what are generally described as immunomodulators to control this disease But this may not be the same type of approach which is desirable for all types of rheumatic conditions Indeed even the way which the present range of drugs and other therapies are applied may not be the most effective and safe means of treating different types of arthritic conditions

Eicosanoids Giancarlo C. Folco,Bengt Samuelsson,Jacques Macclouf,G.P Velo,2013-06-29 Proceedings of a NATO ASI held in Erice Italy April 27 May 1 1995

The Gastrointestinal System Po Sing Leung,2014-04-29 Gastrointestinal GI physiology is a fundamental subject that is indispensable not only for undergraduate but also for graduate courses The audience include but are not limited to medical pharmacy nursing human biology Chinese medicine and science students as well as other health related subject students The overall objectives of this textbook are to present basic concepts and principles of GI physiology and more importantly to convey an understanding of how to apply this knowledge to abnormal GI physiology in the clinical context As such the basic knowledge of GI physiology and its application in the form of clinical case studies should be grasped which are critical for professional examinations and bedside as well as for general practice in the future In this handbook we aim to achieve these elements by covering the breadth of GI pancreatic hepatobiliary and nutritional physiology Moreover we include relevant scenario based clinical case in each chapter so as to evaluate whether the students can apply the basic GI they learn to the clinical setting

Radioprotectors Edward A. Bump,Kamal Malaker,2021-12-24 It is essential to minimize damage to normal tissues during radiation therapy and many strategies have been employed in finding the best methods for radioprotection This book

integrates chemical biological and clinical perspectives on these strategies and developments providing a comprehensive treatise It emphasizes new concepts in radioprotection aiming to inspire further basic science and clinical progress in radioprotector research Radioprotectors Chemical Biological and Clinical Perspectives includes the following topics Early research on radioprotectors WR 2721 an aminothiols prodrug as a radioprotector New results with naturally occurring thiols Nitroxides as effective radioprotectors in vitro and in vivo Radioprotection observed with radical scavengers or antioxidants Bone marrow radioprotection with cytokines and biological modifiers Multiple mechanisms of altering radiation response by eicosanoids Vascular response to radiation and the importance of vascular damage to normal tissue Modifiers of radiation induced apoptosis Survey of clinical trials with radioprotectors Radiation biologists and oncologists cancer researchers and toxicologists will benefit from the findings discussed and strategies for future research

Prostaglandins, Leukotrienes and Other Eicosanoids Friedrich Marks, Gerhard Fürstenberger, 2008-11-21 Polyunsaturated fatty acids are essential for human cell metabolism As precursors of a very large and extremely versatile family of signaling compounds they play a key role in intracellular communication Eicosanoids constitute one of the most abundant and prominent subfamilies of these fatty acid derivatives which are formed primarily along oxidative pathways Prostaglandins leukotrienes and related eicosanoids have a modulatory function in mammalian cells and are responsible for tissue responses such as inflammation or wound repair Increasing activity in eicosanoid research sheds new light on today's most common diseases including atherosclerosis cancer Alzheimer's allergies and rheumatic diseases The recent advances already have far reaching implications in medicine This detailed account written by leading experts covers the ground breaking developments in recent eicosanoid research The topics span eicosanoid biogenesis new aspects of their pathophysiology for example their influence on the cardiovascular system as well as the clinical application of synthetic eicosanoids and their antagonists Researchers and students working in biochemistry or in pharmaceutical physiological medicinal and neurochemistry will value this informative introduction to one of the most rapidly developing fields in cell biology

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1988 Cumulated Index Medicus, 1986 **The Gastrointestinal System** Stanley G. Schultz, Brenda B. Rauner, American Physiological Society (1887-), 1989 **Revival: CRC Handbook of Eicosanoids, Volume II (1989)** A. L. Willis, 2017-07-28 Building upon the extensive compilation of biochemical data featured in Volume I of the Handbook of Eicosanoids the new Volume II describes the past present and potential future impact of eicosanoid research on new drug development The reader is taken from a historical perspective through state of the art basic concepts to extensive tabulation of molecular structures of compounds known to act via the eicosanoid system Much emphasis is given to recent breakthroughs in the mechanism of action of anti inflammatory corticosteroids and the development of receptor antagonists for prostaglandins and leukotrienes There is also an introductory chapter that proposes areas that require further investigation and novel approaches using existing technology This handbook will thus be invaluable for medicinal chemists

pharmacologists and all those involved in basic research in the eicosanoid area In addition many parts of this handbook are suitable for use by university lecturers and students There are 20 figures and 44 extensive tables as well as a bibliography containing more than 2 000 references that complement the text *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* ,1994 *Prostaglandins in Clinical Practice* W. David Watkins,1989

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