# EICOSANOIDS AND OTHER BIOACTIVE LIPIDS IN CANCER, INFLAMMATION, AND RADIATION INJURY 4

Edited by Kenneth V. Honn, Lawrence J. Marnett, Santosh Nigam, and Edward A. Dennis ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY

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# <u>Eicosanoids And Other Bioactive Lipids In Cancer And</u> <u>Radiation Injury</u>

Karsten Schrör, Allan M. Lefer

### **Eicosanoids And Other Bioactive Lipids In Cancer And Radiation Injury:**

Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury, 5 Kenneth V. Honn, Lawrence J. Marnett, Santosh Nigam, Charles N. Serhan, Edward A. Dennis, 2003-02-28 This volume represents a collection of contributions from the 6th International Conference on Eicosanoids and Other Bioactive Lipids in Cancer Inflammation and Related Diseases held in Boston from September 12 15 1999 The mission of this meeting was to bring together senior and junior investigators to both announce and examine their recent advancements in cutting edge research on the roles and actions of lipid mediators and their impact in human physiology and disease pathogenesis. The meeting focused on new concepts in these areas of interest to both clinicians and researchers The program included several outstanding plenary lectures and presentations by leading experts in the fields of cancer and inflammation In addition the Boston meeting presented three Young Investigator awards one in each of the major focus areas The meeting was exciting and proved to be very memorable The program was developed with an emphasis on recent advances in molecular and of lipid mediators relevant in cellular mechanisims involved in the formation and actions inflammation and cancer Plenary lectures were presented by Prof Bengt Sammuelsson Karolinska Institute Stockholm 1982 Nobel Laureate in Physiology or Medicine and Prof E 1 Corey Harvard University 1990 Nobel Laureate in Chemistry Both of these plenary lectures were held on Day 1 which set an exciting tone for this meeting Immediately following these plenary lectures three simultaneous breakout sessions were held one of inflammation a second on cancer and synthesis of novel inhibitors and a third on enzymes lipoxygenases cyclooxygenases and inhibitors Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury, 4 Kenneth V. Honn, Lawrence J. Marnett, Santosh Nigam, Edward A. Dennis, 2013-12-01 This book contains conference presentations regarding the regulation of eicosanoid enzymes and in particular cyclooxygenases lipoxygenases and phospholipases The new field of isoprostanes is also represented Eicosanoids and other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury 3 Kenneth V. Honn, Lawrence J. Marnett, Santosh Nigam, Robert L. Jones, Patrick Y-K Wong,1997-09-30 Proceedings of the Fourth International Conference held in Hong Kong October 4 7 1995 **Eicosanoids** and Other Bioactive Lipids in Cancer and Radiation Injury Kenneth V. Honn, Lawrence J. Marnett, Santosh Nigam, Thomas Walden Jr., 2012-12-06 This volume contains the proceedings of the First International Conference on Eicosanoids and Other Bioactive Lipids in Cancer and Radiation Injury held in Detroit Michigan on October 11 14 1989 The program consisted of 83 oral and 29 poster presentations 74 of which are included in these proceedings. The major sponsors of the conference were the Armed Forces Radiobiology Research Institute located in Bethesda Maryland the Radiation Oncology Research and Development Center of the Gershenson Radiation Oncology Center Harper Hospital in Detroit Michigan and Schering AG of West Germany Eighteen other organizations provided additional support The conference was unique in its attempt to link the eicosanoid and lipid researchers in the radiobiology and cancer disciplines The diverse roles

that eicosanoids and other bioactive lipids play in these biological phenomena including the participation of lipid oxidation in conversion of procarcinogens positive and negative modulation of tumor growth immunomodulation tissue injury and yet protection and enhancement of cancer therapy necessitated scientific interaction to sort out and understand these complex and sometimes contradictory observations. The success of this effort is reflected not only through these proceedings but also through the decision to continue the conference series with a second meeting to be held in Berlin between September 17 21 Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Radiation Injury Santosh Nigam, Kenneth V. Honn, Lawrence J. Marnett, Thomas Walden Jr., 2012-12-06 In recent decades eicosanoids have been attracting an increasing amount of attention as a result of their important physiological roles in many areas of biology and medicine The eicosanoids comprise the prostaglandins thromboxanes and leukotrienes and are products of arachidonic acid an essential polyunsaturated fatty acid stored in tissue phospholipids Disturbances of eicosanoids and their metabolic products play a regulatory role in many types of cell injuries and diseases One of the most exciting areas of eicosanoid research pinpoints their participation in the control of cell proliferation and differentiation Eicosanoids form a link between different fields of research into such areas as cancer inflammation and radiation induced injury. This link provided the impetus for the development of the conference series of which the present volume represents the proceedings of the Second International Conference held in Berlin in October 1991 Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury 2 Kenneth V. Honn, Santosh Nigam, Lawrence J. Marnett, 1998-02-28 Over one hundred contributions detail advances in the molecular and cellular biology of eicosanoid production as well as their role in signal transduction One of the most exciting developments explored within this collection of articles is the expression of the novel isoform of cyclooxygenase cox 2 which may play a large role in the development of anti inflammatory drugs Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation, and Radiation Injury 2 Kenneth V. Honn, Santosh Nigam, Lawrence J. Marnett, 1998-02-28 Over one hundred contributions detail advances in the molecular and cellular biology of eicosanoid production as well as their role in signal transduction One of the most exciting developments explored within this collection of articles is the expression of the novel isoform of cyclooxygenase cox 2 which may play a large role in the development of anti inflammatory drugs

the last seven years has led to the identification of a number of receptors for these bioactive lipids The new field of isoprostanes is also represented It has become increasingly evident that eicosanoids play a critical role in signal transduction both in normal cells and in pathological processes These aspects are discussed in relation to cellular events such as apoptosis angiogenesis and cancer prevention and treatment **Eicosanoids and Other Bioactive Lipids in Cancer**, **Inflammation and Radiation Injury** Santosh K. Nigam, 1991 **Prostaglandin Inhibitors in Tumor Immunology and** Immunotherapy Jules E. Harris, Donald P. Braun, Kenning M. Anderson, 2024-12-06 This book provides an updated overview of eicosanoid metabolism It also presents a timely discussion of eicosanoid metabolism in the process of tumor cell metastasis in chemoprotection and radioprotection associated with cancer therapy and in cell differentiation. The book focuses on the role of eicosanoids in the immunology of malignant disease This includes how various immune cell populations in cancer are affected by the secretion and action of various eicosanoids and metabolites of eicosanoids and how these processes may be affected by various pharmacological manipulations and interventions to augment anti tumor immunity Head and neck cancer is covered in great detail to illustrate a cancer in humans where these considerations are particularly relevant This important volume demonstrates that the principal factor in cancer patient immunologic deficiency is related to excess secretion by monocytes of prostaglandins Principles of Cell Adhesion (1995) Peter D. Richardson, Manfred Steiner, 2017-11-22 Intended for cell biologists biophysicists biochemists molecular biologists physiologists researchers in hemostatsis and thrombosis and pathologists this book provides an insight into cell adhesion from three interdisciplinary perspectives fundamental facts of adhesion molecular biochemistry of adhesion and physiological aspects It summarizes the basic aspects of surfaces in general and describes the theoretical and experimental tools necessary to investigate cell adhesion including the basic biochemistry and molecular biology of adhesion The book offers concise treatment of individual topics features current material and provides key references as a guide to further study **Eicosanoids and Other Bioactive Lipids in** Cancer, Inflammation and Radiation Injury, 2nd International Conference, Berlin, September 17-21, 1991 Karsten Mechanisms of Lymphocyte Activation and Immune Regulation VI Sudhir Gupta, J. John Schrör, Allan M. Lefer, 1991 Cohen, 2013-06-29 Since programmed cell death was first described in insects in 1964 and apoptosis was described in 1972 rapid progress has been made in understanding the basic mechanisms and genes regulating programmed cell death and apoptosis In addition defects in various genes regulating programmed cell death have been delineated in several experimental models of human diseases This volume surveys various aspects of these rapidly developing areas of research in programmed cell death apoptosis This volume should be of interest to basic immunologists and molecular biologists The volume begins with a historical perspective of cell death The remainder of the volume is divided into four different parts Part I deals with the signaling pathways in apoptosis including cell cycle control of apoptosis role of ceramide in apoptosis role of antibody signaling and biochemical regulation of apoptosis The mechanisms for recognition of apoptotic lymphocytes by

macrophages are also reviewed Part II examines the role of various genes that regulate apoptosis including the role ofFas FasL and other TNF family members in apoptosis and homeostatic regulation of immune response Recently described splice variants and their influence on apoptosis are also reviewed and the role of the members of the Bcl 2 family in apoptosis is discussed in detail Part III reviews various aspects of apoptosis in B lymphocytes including mechanisms that regulate apoptosis survival of B lymphocytes and the regulation of Fas mediated apoptosis in B lymphocytes Metabolism Tomas Koltai, Stephan J. Reshkin, Fatima Baltazar, Larry Fliegel, 2025-02-03 Prostate Cancer Metabolism From Biochemistry to Therapeutics shows the peculiarities of prostate cancer metabolism emphasizing the targetable aspects that have not been considered in conventional treatment protocols. The book specifically addresses treatment of the castration resistant stage of prostate cancer proposing many repurposed drugs and nutraceuticals to complement not replace standard therapies The large body of evidence supporting these concepts makes them deserving of further research and well designed clinical trials It discusses lipid cholesterol glutamine and glucose metabolisms and their impact on prostate cancer Additionally it explains how current established drugs can be repurposed to improve treatment outcomes The concepts set out in the book that deal with cancer at the cellular molecular level help identify new avenues of research and treatments to pursue that do not affect well being whilst offer consistent benefits Since most practicing physicians have not studied basic biochemistry since medical school each chapter begins with a brief review of the topic to facilitate an understanding of the metabolically oriented approach to targeting prostate cancer Conventional treatments are not discussed here since they are covered in textbooks and specialized updates that abound in the medical literature It is a valuable resource for cancer researchers oncologists clinicians and members of biomedical field who want to learn more about prostate cancer metabolism and how to apply recent findings in the field to bedside Explains the basic aspects of prostate cancer metabolism including its biochemistry which has a pivotal role in clinical practice Discusses new drugs and nutraceuticals with a metabolism centered approach Offers practical bedside approach in combination with molecular and biochemical fundamentals to help readers identify and provide the best treatment to their patients Women at High Risk to Breast Cancer B.A. Stoll, 2012-12-06 A reprint of the 1989 edition of this book has been made necessary by continuing demand after rapid exhaustion of the first printing In the two years since its appearance there has been relatively little expansion of knowledge on this topic and its massive accumulation of references still remains an authoritative guide in the difficult task of developing a national breast cancer prevention model At the same time its thesis has been sharpened by the publication of a companion volume Approaches to Breast Cancer Prevention Kluwer 1991 similarly edited byrne Breast cancer is on the increase throughout the Western world where it is a major source of anxiety among women The disease is also becoming more frequent in Asian and South American countries where once it was relatively uncommon Multiple fac tors are suspected of promoting the disease and the increasing risk is attributed to recent changes in life style and diet This book is intended to

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