Prostaglandins, Leukotrienes, and Cancer

Kenneth V. Honn and Lawrence J. Marnett, Series Editors

# Arachidonic Acid Metabolism and Tumor Promotion

edited by Susan M. Fischer Thomas J. Slaga

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# <u>Arachidonic Acid Metabolism And Tumor Promotion</u> <u>Prostaglandins Leukotrienes And Cancer</u>

Susan M. Fischer, Thomas J. Slaga

### Arachidonic Acid Metabolism And Tumor Promotion Prostaglandins Leukotrienes And Cancer:

Arachidonic Acid Metabolism and Tumor Promotion Susan M. Fischer, Thomas J. Slaga, 1985-04-30 Prostaglandins Leukotrienes and Cancer is a multi volume series that will focus on an emerging area of cancer research In 1968 R H Williams first reported that elevated prostaglandin levels are present in human medullary car cinoma Since that time the concept that arachidonic acid metabolites may be in volved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family of bioactive lipids produced from unsaturated fatty acids principally from and lipoxygenase pathways respec arachidonic acid via the cyclooxygenase tively Cyclooxygenase products consist of diverse products such as prosta glandin E2 POE prostacyclin POI and thromboxane A2 TXA whereas 2 2 2 lipoxygenase products consist of hydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes The precursor fatty acids for the cyclooxygenase and lipoxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengt Samuelsson's extensive study of the metabolism of pros taglandins indicated that they are rapidly inactivated on a single pass through pulmonary circulation Thus they cannot act as circulating hormones and appear to be made on demand in or in the vicinity of target tissues leading to the concept that prostaglandins are local hormones or autocoids **Arachidonic Acid Metabolism and Tumor Initiation** Lawrence J. Marnett, 2012-12-06 Prostaglandins Leukotrienes and Cancer is a multi volume series that will focus on an emerging area of cancer research In 1968 R H Williams first reported that elevated prostaglandin levels are present in human medullary car cinoma Since that time the concept that arachidonic acid metabolites may be in volved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family of bioactive lipids produced from unsaturated fatty acids principally from arachidonic acid via the cyclooxygenase and lipoxygenase pathways respec tively Cyclooxygenase products consist of diverse products such as prosta glandin E2 POE prostacyclin POI and thromboxane A2 TXA whereas 2 2 2 lipoxygenase products consist of hydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes. The precursor fatty acids for the cyclooxygenase and lipoxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengl Samuelsson's extensive study of the metabolism of pros taglandins indicated that they are rapidly inactivated on a single pass through pulmonary circulation Thus they cannot act as circulating hormones and appear to be made on demand in or in the vicinity of target tissues leading to the concept that prostaglandins are local hormones or autocoids Biochemistry of Arachidonic Acid Metabolism William E.M. Lands, 2012-12-06 Prostaglandins Leukotrienes and Cancer is a multi volume series that will focus on an emerging area of cancer research In 1968 R H Williams first

reported that elevated prostaglandin levels are present in human medullary car cinoma Since that time the concept that arachidonic acid metabolites may be in volved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family of bioactive lipids produced from unsaturated fatty acids principally from arachidonic acid via the cyclooxygenase and lipoxygenase pathways respec tively Cyclooxygenase products consist of diverse products such as prosta glandin E POE prostacyclin POI2 and thromboxane A2 TXA2 whereas lipoxygenase products consist of hydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes. The precursor fatty acids for the cyclooxygenase and lip oxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengt Samuelsson's extensive study of the metabolism of pros taglandins indicated that they are rapidly inactivated on a single pass through pulmonary circulation Thus they cannot act as circulating hormones and appear to be made on demand in or in the vicinity of target tissues leading to the Biochemistry of Arachidonic Acid Metabolism William E.M. concept that prostaglandins are local hormones or autocoids Lands, 1985-04-30 Prostaglandins Leukotrienes and Cancer is a multi volume series that will focus on an emerging area of cancer research In 1968 R H Williams first reported that elevated prostaglandin levels are present in human medullary car cinoma Since that time the concept that arachidonic acid metabolites may be in volved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family of bioactive lipids produced from unsaturated fatty acids principally from arachidonic acid via the cyclooxygenase and lipoxygenase pathways respec tively Cyclooxygenase products consist of diverse products such as prosta glandin E POE prostacyclin POI2 and thromboxane A2 TXA2 whereas lipoxygenase products consist of hydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes The precursor fatty acids for the cyclooxygenase and lip oxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengt Samuelsson's extensive study of the metabolism of prostaglandins indicated that they are rapidly inactivated on a single pass through pulmonary circulation Thus they cannot act as circulating hormones and appear to be made on demand in or in the vicinity of target tissues leading to the concept that prostaglandins are local hormones or autocoids 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 ICRDB Cancergram ,1978

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 1991 Biomedical Index to PHS-supported Research ,1990 **Novel Approaches to Cancer Chemotherapy** Prasad S. Sunkara, 2013-10-22 Novel Approaches to Cancer Chemotherapy compiles theories in tumor biology emphasizing their potential use in developing therapeutic approaches to cancer therapy This book emphasizes the unique property of a cancer cell and describes in detail how a novel therapeutic approach can be developed This compilation consists of 11 chapters Chapters 1 2 5 6 and 7 deal with emerging areas of cancer therapy such as the use of interferon monoclonal antibodies liposomes lymphokines and immunomodulators The rest of the chapters cover some of the biochemical and enzyme targets in cancer cells such as polyamines prostaglandin thromboxane leukotrienes 5a reductase aromatase cell membrane glycoproteins and sodium flux The developments in relation to cancer therapy are mentioned in chapters dealing with biochemical approaches This book is valuable to biologists biochemists immunologists and molecular biologists intending to exploit the unique properties of cancer cells **Current Catalog** National Library of Medicine (U.S.),

Carcinogenesis and Dietary Fat S. Abraham, 2012-12-06 Prostaglandins Leukotrienes and Cancer is a multi volume series which focuses on an emerging area of cancer research In 1968 R H Williams first reported that elevated prostaglandin levels are present in human medullary carcinoma Since that time the concept that arachidonic acid metabolites may be involved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family ofbioactive lipids produced from unsaturated fatty acids principally from arachidonic acid via the cyclooxygenase and lipoxygenase pathways respectively Cyclooxygenase products consist of diverse products such as prostaglandin E2 PGE2 prostacyclin PGI2 and thromboxane A2 TXA2 whereas lipoxygenase products consist ofhydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes lipoxins and epoxides The precursor fatty acids for the cyclooxygenase and lipoxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengt Samuelsson's extensive study of the metabolism of prostaglandins indicate that they are rapidly inactivated on a single pass through pulmonary circulation Thus they cannot act as circulating hormones and appear to be made on demand in the vicinity oftarget tissues leading to the concept that prostaglandins are local rrormones or autocoids Altered production qualitative and or quantitative of prostaglandins and leukotrienes has been implicated in the development of a number of disease states e g Prostaglandins and Immunity James S. Goodwin, 2012-12-06 Prostaglandins Leukotrienes and Cancer is a multi volume series that will focus on an emerging area of cancer research In 1968 R H Williams first reported that elevated prostaglandin levels are present in human medullary car cinoma Since that time the concept that arachidonic acid metabolites may be in volved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family of bioactive lipids produced from unsaturated fatty acids principally from arachidonic acid via the cyclooxygenase and lipoxygenase pathways respec tively Cyclooxygenase products consist of diverse products such as prosta glandin E2 PGE2 prostacyclin PGI2 and thromboxane A2 TXA2 whereas lipoxygenase products consist of hydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes. The precursor fatty acids for the cyclooxygenase and lipoxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengt Samuelsson's extensive study of the metabolism of pros taglandins indicated that they are rapidly inactivated on a single pass through pulmonary circulation. Thus they cannot act as circulating hormones and appear to be made on demand in or in the vicinity of target tissues leading to the concept that prostaglandins are local hormones or autocoids National Library of Medicine Current Catalog National Library of Medicine (U.S.),1985 **Primary Prevention by Nutrition Intervention in Infancy and Childhood** Alan Lucas, Hugh A. Sampson, 2006 The 57th Nestl

Pediatric Nutrition Workshop assembled a panel of leading international scientists in order to assess and extend the current state of knowledge on the long term effects of early nutrition Prevention of diseases such as obesity diabetes cardiovascular disease osteoporosis cancer and the metabolic syndrome by early nutrition intervention is the declared goal of this kind of research Single papers deal with dietary effects on mental and motor impairment the epidemical aspects of obesity the complexity of the relationship between birth weight and adult BMI the importance for primary prevention in childhood diabetes the potential of nutritional prevention of osteoporosis the nutritional key influences on cancer and the surprising link between cancer and obesity and many more Complex multifaceted and contradictory health outcomes of early nutrition elements clearly show that genetic or environmental interactions have to be taken into account and compromises have to be found to establish a good balance of risks and benefits for the wide range of different health issues which depend on nutrition and early nutrition in particular Eicosanoids and Radiation Peter Polgar, 2012-12-06 Prostaglandins Leukotrienes and Cancer is a multi volume series that will focus on an emerging area of cancer research In 1968 R H Williams first reported that elevated prostaglandin levels are present in human medullary car cinoma Since that time the concept that arachidonic acid metabolites may be in volved in cancer has expanded to include every aspect of the disease from cell transformation through metastasis Prostaglandins and leukotrienes are generic terms used to describe a family of bioactive lipids produced from unsaturated fatty acids principally from arachidonic acid via the cyclooxygenase and lipoxygenase pathways respec tively Cyclooxygenase products consist of diverse products such as prosta glandin Ez PGEz prostacyclin PGIz and thromboxane Az TXAz whereas lipoxygenase products consist of hydroperoxy fatty acids and mono di and tri hydroxy acids including leukotrienes. The precursor fatty acids for the cyclooxygenase and lipoxygenase pathways are present in cellular phospholipids This finding established an important control point in their biosynthesis the release of substrate This occurs in response to numerous stimuli that act at the cell surface Dr Bengt Samuelsson's extensive study of the metabolism of pros taglandins indicated that they are rapidly inactivated on a single pass through pulmonary circulation Thus they cannot act as circulating hormones and appear to be made on demand in or in the vicinity of target tissues leading to the concept that prostaglandins are local hormones or autocoids **Environmental Politics and Liberation in Contemporary Africa M.A.** Salih,2013-03-14 Nowadays the environment looms large in the analysis of conflict in developing societies and the precise role it plays is the subject of an ongoing debate The de bate has moved on from the earlier but still popular notions of power struggles class struggles and ethnic conflicts to a perception of conflict as the product of intense group competition for resources Where the state controls the distribution of resources itself inevitably becomes party to conflicts whose bone of con tention is access to state power as the most efficient means of gaining access to resources The resources in question are social health education transportation communication recreation etc and material land water housing jobs con tracts licenses permits etc In parts of the world and especially in Africa di minishing resources and authoritarian state rule exacerbate

group competition leading to political confrontation This is the line I have followed in analysing conflict in the Hom of Africa Markakis 1987 1998 Mohamed Salih s first contribution in this volume is to move the debate a step beyond this line which can be criticized as unduly materialist He does it by bringing culture into the realm of resources not only as a resource in itself but also as the agency that assigns natural resources their value Culture thus becomes a contextual element in conflict over resources whose value is culturally deter mined \*\*Biochemistry of Chemical Carcinogenesis\*\* R. Colin Garner, Jan Hradec, 2012-12-06 \*\*Prostaglandins\*\*, Leukotrienes\*\*, and Lipoxins\*\* J. Bailey, 2012-12-06 \*\*\*Cancer Research\*\*, 2000 \*\*\*Research\*\* Awards\*\* Index\*\*, 1989

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