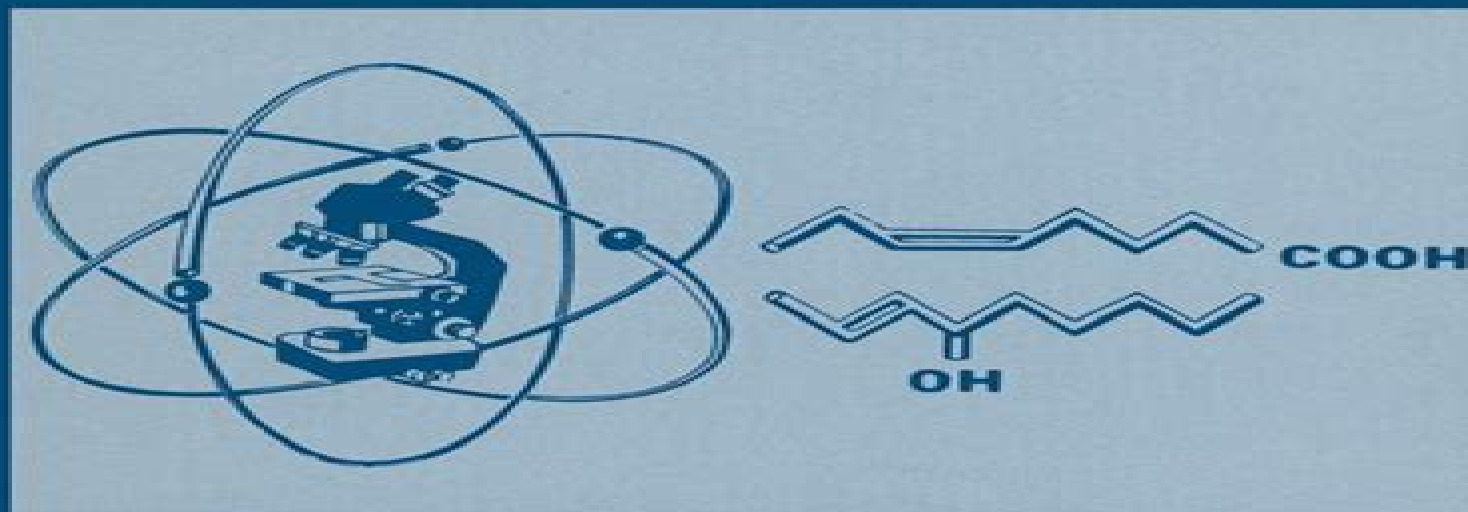


# Prostaglandin and Lipid Metabolism in Radiation Injury



Edited by  
Thomas L. Walden, Jr.  
and  
Haywood N. Hughes

# Prostaglandin And Lipid Metabolism In Radiation Injury

**A. Wallace Hayes**



## **Prostaglandin And Lipid Metabolism In Radiation Injury:**

**Prostaglandin and Lipid Metabolism in Radiation Injury** Thomas L., Jr. Walden, Haywood N. Hughes, 2012-12-06

This volume contains the proceedings of the International Conference on Prostaglandins and Lipid Metabolism in Radiation Injury held in Rockville Maryland on October 2 3 1986 Over 200 persons from eight countries attended the program which consisted of 24 oral presentations and 38 poster presentations Forty two of those presentations have been included in this volume The conference was sponsored by the Armed Forces Radiobiology Research Institute located in Bethesda Maryland The effects of radiation on lipid synthesis and membrane damage are aptly summarized in the first five chapters These chapters describe the effects of radiation on lipid peroxidation of model membranes and the role of lipid composition in mammalian cell death and in bacterial radio and thermosensitivity In bacteria lipid peroxidation is not essential for radiation induced cell death One of the key points of the conference was the paradoxical nature of the radiobiology of eicosanoids On the one hand eicosanoids are mediators of damage on the other they are radioprotective agents It is clear from the literature and from the data presented at the conference that both of these properties may also be observed as a consequence of radiotherapy Some studies indicate that nonsteroidal anti inflammatory drugs may minimize or prevent certain radiation induced damage but other studies show no positive effect

Prostaglandin and Lipid Metabolism in Radiation Injury Jr

Walden Thomas L, Haywood N Hughes, 1988-01-01

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

**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

*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

**Eicosanoids and Other Bioactive Lipids in Cancer and Radiation Injury** Kenneth V. Honn, 1991-07-31 Proceedings of the 1st International Conference October 11 14 1989 Detroit Michigan USA

**Biochemistry of Ionizing Radiation** Thomas L. Walden, Nushin K. Farzaneh, 1990

**Manual of Blood Platelets: Morphology, Physiology and Pharmacology** Gundu HR Rao, 2018-11-30 Platelets are tiny blood cells that help the body form clots to stop bleeding Antiplatelet medications such as aspirin and clopidogrel are commonly used to thin the blood which limits clotting and reduces the risk of heart attack This book is a comprehensive guide to blood platelets for haematologists Beginning with discussion on platelet structure morphology function and physiology the next chapters cover the role of calcium in platelet activation and calcium modulation by cyclic nucleotides The following sections explain the pharmacology of antiplatelet drugs antiplatelet therapies aspirin resistance and the association of diabetes mellitus with major platelet dysfunction The book concludes with chapters on acute coronary problems interaction between endothelial cells and platelets and blood biocompatibility studies Authored by a Minneapolis based expert in the field the text is further enhanced by clinical photographs diagrams and tables Key points Comprehensive guide to blood platelets for haematologists Extensive coverage of antiplatelet drugs and resistance Recognised author from University of Minnesota Highly illustrated with clinical photographs diagrams and tables

**Principles and Methods of**

**Toxicology, Fifth Edition** A. Wallace Hayes, 2007-09-25 Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity the determination of safe dosage forms the base and focus of modern toxicology In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available information a solid understanding of the underlying principles is essential Extensively revised and updated with four new chapters and an expanded glossary this fifth edition of the classic text *Principles and Methods of Toxicology* provides comprehensive coverage in a manageable and accessible format New topics include toxicodynamics plant and animal poisons information resources and non animal testing alternatives Emphasizing the cornerstones of toxicology people differ dose matters and things change the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles agents that cause toxicity target organ toxicity and toxicological testing methods including many of the test protocols required to meet regulatory needs worldwide The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each The addition of several new authors allow for a broader and more diverse treatment of the ever changing and expanding field of toxicology Maintaining the high quality information and organizational framework that made the previous editions so successful *Principles and Methods of Toxicology Fifth Edition* continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology

*Thermoradiotherapy and Thermochemotherapy* M. Heinrich Seegenschmiedt, Peter Fessenden, Clare C. Vernon, 2012-12-06 Hyperthermia has been found to be of great benefit in combination with radiation therapy or chemotherapy in the management of patients with difficult and complicated tumor problems It has been demonstrated to increase the efficacy of ionising radiation when used locally but also has been of help in combination with systemic chemotherapy where hyperthermia is carried out to the total body Problems remain with regard to maximizing the effects of hyperthermia as influenced by blood flow heat loss etc The present volume defines the current knowledge relative to hyperthermia with radiation therapy and or chemotherapy giving a comprehensive overview of its use in cancer management Philadelphia Hamburg June 1995 L W BRADY H P HEILMANN Preface In an attempt to overcome tumor resistance hypoxia or unfavorable tumor conditions oncological research has come to focus on gene therapy immunotherapy new cytotoxic agents and increasingly sophisticated radiotherapy Radiation research has been directed towards heavy particle therapy and modification of the radiation response by either protecting or sensitizing agents Improved dose localization using rotational or conformal strategies has also been implemented Recently changes in radiation fractionation schedules have shown promise of better results Hyperthermia in cancer therapy can be viewed similarly as another means to increase the sensitivity of tumors to radio and chemotherapy

**Handbook of Radiobiology** Kedar N. Prasad, 2020-08-18 This handbook

presents the most current information on the effects of ionizing radiation on mammalian cells with emphasis on human tissues The dose effect relationship is emphasized in a quantitative manner The book contains up to date data on the late effects of low levels of radiation on humans It also provides some of the late consequences of radiation therapy detected among cancer survivors

**Pentoxifylline and Analogues: Effects on Leukocyte Function** J. Hakim,G. L. Mandell,W. J. Novick Jr.,1990-12-05 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Technical Reports Awareness Circular : TRAC. ,1988-07 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1988 **Energy Research Abstracts** ,1989 *Lipoxygenases and Their Products* Stanley Crooke,2012-12-02 Lipoxygenases and Their Products provides a cogent summary of the advances in understanding lipoxygenases and their products emphasizing their pharmacology and pathophysiology regulation and structure physiological role and receptors and receptor antagonists This text also reviews the literature where specific receptor antagonists as opposed to enzymatic inhibitors have been used to characterize the pharmacologic action and the pathophysiologic roles of some of lipoxygenase products of arachidonic acid metabolism This book is organized into 11 chapters and begins with an overview of the biochemical pharmacological and pathophysiological aspects of 5 lipoxygenase products of arachidonic acid metabolism in the respiratory cardiovascular renal gastrointestinal and central nervous systems The discussion then shifts to human 5 lipoxygenase emphasizing this enzyme purification stimulatory factors and membrane translocation The reader is methodically introduced to 5 lipoxygenase activity in rats and pigs the potential and therapeutic value of 5 lipoxygenase inhibitors the distribution of 15 lipoxygenase in cells or tissues and products formed through the 15 lipoxygenase pathway This book also considers lipoxins and third generation peptidoleukotriene receptor antagonists and then concludes with a summary of the physiological and pathophysiological effects of leukotrienes and lipoxins in a variety of organs This book is of interest to scientists interested in arachidonic acid and its metabolites to scientists engaged in drug discovery and development activities in academia and the pharmaceutical industry and to clinicians interested in diseases associated with leukotrienes and related products

**International Journal of Radiation Biology** ,2004 *Research Awards Index* ,1978 国際放射線生物学会 (Japan),1900

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