

Radiation Carcinogenesis and DNA Alterations

Edited by

F. J. Burns

A. C. Upton and

G. Silini

NATO ASI Series

Radiation Carcinogenesis And Dna Alterations

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Radiation Carcinogenesis And Dna Alterations:

Radiation Carcinogenesis and DNA Alterations Frederic J. Burns, 2013-03-13 This volume is based on the proceedings of an Advanced Study Institute ASI sponsored by the North Atlantic Treaty Organization NATO held October 1984 in Corfu Greece The meeting received finan cial support from the United States Department of Energy and the United States National Cancer Institute A plethora of recent developments in the molecular biology of DNA are leading to new ideas concerning how DNA alterations might be involved in the mechanism of radiation carcinogenesis Evidence is accumulating that genetic sequences known as oncogenes are involved in the translation of DNA molecular alterations into phenotypic changes associated with malignant cells For example a chromosome break often occurs at or near the loca tion of a specific oncogene in Burkitt's lymphoma Such breaks could represent initial lesions in a translocation process that activates the oncogene by inserting it at a new location eg near an active pro moter Since breakage of the DNA is one of the principal ways that ion izing radiation affects mammalian cells these new molecular ideas suggest ways that radiation induced DNA breaks might be involved as initial events in carcinogenesis While the possible involvement of oncogenes in radiation carcino genesis is an exciting new development a direct sequential connection between early molecular changes in DNA and later tumor development has yet to be established Accordingly there is a tremendous need for experimental studies of how DNA alterations might convert normal cells to cancer cells **Radiation Carcinogenesis and DNA Alterations** Frederic I Induced Effects Of Genotoxic Agents In Eukaryotic Cells Toby G Rossman, 1992-09-21 This book Burns.1987-05-01 provides an understanding of the consequences of induced proteins in the toxicological response of cells to chemical and radiation damage to DNA and will be helpful in creating proper mathematical models for extrapolation to low doses and assessing human exposure or cellular injury Protease Inhibitors as Cancer Chemopreventive Agents A.R. Kennedy, W. Troll, 2012-12-06 Protease inhibitors PIs are widely distributed in plants and animals and have a variety of functions which include preventing digestion of seeds by insects and modifying blood clotting in animals After it was noted that synthetic and natural inhibitors suppress two stage carcinogenesis and breast cancer extensive work investigating PIs as chemopreventive agents was started PIs are unique in that they interfere with cancer development in a variety of ways including suppression of oxygen radicals oncogenes and metastases Epidemiologic evidence supports their prevention of major human cancers in populations that consume foods containing them Their supervised use in humans is on the threshold of development The epidemiologic discovery of the importance of lentils and other seeds rich in PIs in preventing many human cancers allowed us to look at the action of PIs as chemopreventive agents as reviewed in Chapter I Fontham and Correa Chapter 2 Kennedy discusses the role of natural PIs e g the Bowman Birk inhibitor as anticarcinogens and the possible limitations of their use In Chapter 3 Kennedy the transformation of C3HI lOTlh cells caused by carcinogens and promoters is shown to be suppressed by PIs Bowman Chapter 4 relates the discovery of inhibitors in soybeans that are

distinct from the Kunitz inhibitor and the occurrence of a similar inhibitor in peanuts and other legumes Chapter 5 Birk is an overview of PIs of plant origin and their role in human nutrition *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 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1987

Selective Activation of Drugs by Redox Processes G.E. Adams, A. Breccia, E.M. Fielden, P. Wardman, 2012-12-06 Proceedings of a NATO ARW held in Fermo Italy August 28 September 1 1989 Views and Suppositions about the **Pathogenesis of Cancer** Georgi Gogichadze, 2016 Primary target for carcinogens are determinants of cellular membranes but not cell s DNA On the first stage of carcinogenesis initiation two normal somatic cells of one organ or tissue may create dikaryons but in some cases nonviable polykaryocytes During the perforation of cellular membranes induced by different carcinogenic agents and factors the total negative charge of plasma membranes decrease and the cells acquire the capability of closely approaching adhesion which frequently especially upon coincidence of the perforated parts may serve as a prerequisite to fusion process After synchronous mitosis or simple mechanical assembly of hetero or homokaryons nuclei mononuclear hybrid precancerous cells develop with a tetraploid set of chromosomes on initial stage of hybridization In addition to the data evidencing the hybrid origin of a cancer cell this work attempts to answer some important and still unanswered questions of modern oncology Carcinogenesis Abstracts ,1973 **Current Cancer Research on** Radiation Carcinogenesis and Related Radiobiology ,1981 **Environmental Health Perspectives** .1993

Advances In Mathematical Population Dynamics -- Molecules, Cells And Man - Proceedings Of The 4th International Conference On Mathematical Population Dynamics O Arino, David E Axelrod, Marek Kimmel, 1997-12-04 This book presents a new approach to the subject of cosmology It fully exploits Einstein s theory of general relativity It is found that the most general formal expression of the theory replaces the 10 component tensor formalism with a 16 component quaternion formalism This leads to a unified field theory where one field incorporates gravitation and electromagnetism The theory predicts an oscillating universe cosmology with a spiral configuration Dark matter is explained in terms of a sea of particle antiparticle pairs each in a particular derived ground state This leads to an explanation for the separation between matter and antimatter in the universe There is a brief discussion of black holes and pulsars The final chapter delves into philosophical considerations such as the different types of truth positivism versus realism and a discussion of the role of the Mach principle in physics and cosmology a Molecular Biomarkers for Cancer Diagnosis and Therapy Ranbir Chander Sobti, Haruhiko Sugimura, Aastha Sobti, 2024-06-29 This book presents recent advancements challenges and clinical

implications of molecular biomarkers in various cancers This book highlights the clinical applications of biomarkers are extensive for cancer risk assessment screening and early detection of cancer accurate diagnosis patient prognosis prediction of response to therapy and cancer surveillance and monitoring response It also explores the progress of predictive biomarkers as an adjunctive tool to tumor immunotherapy in effectively identifying the efficacy of immune checkpoint inhibitors and discusses their future directions in achieving precision immuno oncology Further the book examines the combination of next generation sequencing and advanced computational data analysis approaches in the understanding of the genomic underpinnings of cancer development and progression Towards the end the chapter discusses the role of some commonly investigated phytochemicals and their epigenetic targets that are of particular interest in cancer prevention and cancer therapy It is a must for researchers as well as advanced students and physicians in the field of cancer and clinical oncologists Cancer Victor Richards, 2023-11-15 This book presents in lucid and concise terms the main facts known today about cancer It is directed to laymen filling to make a modest effort to understand the biology of cells and to many doctors and scientists who do not specialize in the study of cancer The author combines a scientific and humanistic approach to the subject in an effort to temper the cold facts of science with personal concern for patients and their families Cancer The Wayward Cell answers insofar as possible the questions most often asked about cancer It is divided into four major parts 1 the biology of the cell including a discussion of normal and abnormal growth 2 the history ecology and environmental origins of cancer 3 current methods of treatment of cancer and 4 the psychological and social problems relevant to this perplexing disorder Throughout the book new attempts to apply research advances to the problem of cancer are analyzed with particular emphasis on prevention control and treatment This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1972 Research in Progress United States. Department of Energy. Office of Health and Environmental Research, 1992 Research in Progress, FY 1992 United States. Department of Energy. Office of Health and Environmental Research, 1993 Cancer: the Wayward Cell Victor Richards,1972 Research Grants National Institutes of Health (U.S.). Division of Research Grants. Statistics and Analysis Branch, 1984 Subject Index of Extramural Research Administered by the National Cancer Institute ,1978 Current information about research grants and contracts supported by the National Cancer Institute Subject listing gives contract or grant number and topic Investigator grant number and contract number indexes

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