



Radiation Carcinogenesis and DNA Alterations

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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 financial 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 location 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 promoter Since breakage of the DNA is one of the principal ways that ionizing 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 carcinogenesis 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 J Burns, 1987-05-01 **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 1 Fontham and Correa Chapter 2 Kennedy discusses the role of natural PIs eg the Bowman Birk inhibitor as anticarcinogens and the possible limitations of their use In Chapter 3 Kennedy the transformation of C3H10T1/2 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 *Induced Effects Of Genotoxic Agents In Eukaryotic Cells* Toby G Rossman, 1992-09-21 This book 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 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 *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 Current Cancer Research on Radiation Carcinogenesis and Related Radiobiology, 1981 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1987 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **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 **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 **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 **Research Awards Index** ,1983 Biological Effects of Dietary Restriction Lawrence Fishbein, 2012-12-06 How does dietary restriction affect the physiological and biochemical state of laboratory animals How will the present conclusions affect further research What are the implications for human health and safety assessment These are the main questions asked in this book by leading international researchers After a first look at feeding regimens and diets of laboratory animals the book elaborates on a variety of age associated toxicological and pathological endpoints including tumor development The following sections detail the underlying mechanisms which may induce the broad spectrum of physiological and biochemical changes This summary of current multidisciplinary research will enhance understanding of the practical applications and implications of dietary restriction **Subject Index of Current Extramural Research Administered by the National Cancer Institute** National Cancer Institute (U.S.), 1974 *Subject Index of Current Extramural Research Administered by the National Cancer Institute* ,1978 Performance Study of Galactic Cosmic Ray Shield Materials Myung-Hee Y. Kim, 1994 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1975

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