

RADIATION RESEARCH

A Twentieth-Century Perspective



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Radiation Research A Twentieth Century Perspective Volume

P. G. S. Prasanna



Radiation Research A Twentieth Century Perspective Volume :

Radiation Research: A Twentieth-century Perspective J Champan, 2012-12-02 Radiation Research A Twentieth Century Perspective Volume I Congress Abstracts is a collection of abstracts presented at the Ninth International Congress of Radiation Research convened in Toronto Canada organized by the Radiation Research Society and the North American Hyperthermia Group at the invitation of the International Association of Radiation Research The Toronto venue for this congress recognizes a major role by Canadian scientists in the field of radiation research and also the strong participation of Canadian scientists in the North American Radiation Research Society Original science is shared at these Congresses through Congress lectures symposia presentations and proffered papers The Congress Board of Directors adopted a proposal that all abstracts of scientific presentations should become a permanent record of the official proceedings of the Congress In a manner somewhat analogous to the Canadian postal code system each abstract in this volume is identified at the top left hand corner by a code consisting of both letters and numbers printed on three lines Line one consists of one letter and two numbers that uniquely identify each scientific event The second line consists of a double digit number that designates the sequence of presentation within the specific scientific event The third line consists of a double letter code in which the first letter indicates the day of the week on which abstract material is presented and or discussed and the second letter indicates a morning or afternoon session

Second International Conference on Environmental Mutagens in Human Populations, 1996 *Track Structure Model of Cell Damage in Space Flight* Robert Katz, 1992 Nanostructured Materials and Nanotechnology Hari Singh Nalwa, 2002 Nanotechnology Provides comprehensive coverage of the dominant technology of the 21st century Written by a truly international list of contributors AFRRI's Gamma-ray, X-ray, and Fission-neutron Calibration Curves for the Lymphocyte Dicentric Assay P. G. S. Prasanna, 2002 Facilities are established at the Armed Forces Radiobiology Research Institute AFRRI to perform radiation induced chromosome aberration analysis for biological dosimetry Whole blood from healthy human volunteers was used after obtaining informed consent Peripheral blood lymphocytes were exposed in vitro to different types of radiation sup 60 Co gamma rays E gamma 1 25 MeV mean of the absorbed dose distribution of the lineal energy $y_{sub D} 1.9$ keV micrometers 1 Gy min x rays 250 kV sub p E 83 keV $y_{sub D} 4$ keV micrometers 1 Gy min or a fission spectrum neutron source E 0.71 MeV $y_{sub D} 65$ keV micrometers 0.25 Gy min Distribution of radiation induced dicentrics among cells exhibited Poisson statistics as characterized by the Papworth method Papworth 1970 Dose response relationships for the yield of dicentrics for photon sources were fitted with a linear quadratic model using the maximum likelihood method and for the neutron source by a weighted linear regression method Comparison of the data with other published studies is presented The dose response relationships for dicentric induction by low and high linear energy transfer LET radiation are consistent with the single and two track model of aberration formation $Y_{alpha D} beta D^{sup 2}$ An increase in $y_{sub D}$ resulted in an increase in dicentric yield As expected fission neutrons induced a

significantly higher yield of dicentrics than that caused by low LET sources The linear component of the model corresponding to damage caused by single tracks is predominant with fission neutrons so that the dose effect relationship is essentially linear An automated metaphase finder system with a satellite scoring utility was used to improve data collection *Report of the Epidemiology and Biostatistics Program* National Cancer Institute (U.S.). Division of Cancer Etiology. Epidemiology and Biostatistics Program,1992

Relative Radiation Sensitivities of Human Organ Systems Kurt I. Altman,John T. Lett,2013-10-22 *Advances in Radiation Biology* Volume18 *Relative Radiation Sensitivities of Human Organ Systems* Part IV focuses on the sensitivity of certain human organ systems to radiation exposure This book discusses the radiation sensitivity of the prostate and radiation therapy of its tumors clinical radiobiology and normal tissue morbidity after breast cancer treatment and approach to optimal therapy and normal tissue sparing The fractionation sensitivity of mammalian tissues trends for improving radiation sensitivity by counteracting chronic and acute hypoxia and predictive assays in radiation therapy are also elaborated This publication likewise covers the basic cellular radiobiology and its significance for radiation therapy and classical theoretical approaches to cellular radiosensitivity This volume is beneficial to clinicians and students intending to gain knowledge of the radiation sensitivities of human organ systems

Environmental Health Perspectives,2000

Biomarkers and Occupational Health Mary Janet Normandy,John P. Peeters,Mortimer L. Mendelsohn,1995-02-16

Biomarkers have emerged as an exciting tool in disease prevention particularly in the workplace They may be used to document workers exposure to toxins signal the onset of health effects or identify individuals with susceptibility to certain environmental threats But the uncertainty is as great as the potential Are biomarkers suitable for widespread use How can they be deployed in diverse contexts How can biological information about workers be handled fairly and ethically

Biomarkers and Occupational Health describes the state of biomarker development including the implications of the Human Genome program and presents a range of viewpoints on the future of biomarkers from the leaders in the field This book explores the three basic types of biomarkers markers of exposure markers of health effects and markers of susceptibility to disease from a variety of perspectives It examines what can be learned from well known exposure sites Hiroshima and Nagasaki Chernobyl and the Hanford nuclear site in the United States for example and a wide range of human cases and animal studies The book also explores the costs and ramifications of developing a large scale program to monitor potentially exposed workers e g at a cleanup site A framework is offered for the use of biomarkers based on the mandate to change the environment before you change the worker The book explores how to identify ethical issues how to set development priorities and how to integrate biomarkers into an occupational health and safety program The authors present the latest technical findings about markers for chronic beryllium disease as well as markers for exposure to carcinogens radiation and chromium including prospects for detecting long past exposures *Biomarkers and Occupational Health* offers an update on biomarker development and explores a wide scope of issues This book will be important to occupational health professionals biomedical

researchers toxicologists epidemiologists and labor and management officials involved in worker health issues Moritmer L Mendelsohn M D Ph D is Vice Chairman of the Radiation Effects Research Foundation RERF in Japan which studies the long term health effects of the atomic blasts in Hiroshima and Nagasaki and he is former Associate Director of the Lawrence Livermore National Laboratory in California John P Peeters Ph D is a geneticist who is currently directing a division of the Office of Occupational Medicine for the United States Department of Energy Mary Janet Normandy Ph D is a toxicologist who specializes in the metabolism of xenobiotics in mammalian systems She is currently a member of the Department of Energy s Office of Occupational Medicine BJR Supplement ,1989 **Radiation Therapy Physics** William R. Hendee,Geoffrey S. Ibbott,Eric G. Hendee,2013-05-13 The Third Edition of Radiation Therapy Physics addresses in concise fashion the fundamental diagnostic radiologic physics principles as well as their clinical implications Along with coverage of the concepts and applications for the radiation treatment of cancer patients the authors have included reviews of the most up to date instrumentation and critical historical links The text includes coverage of imaging in therapy planning and surveillance calibration protocols and precision radiation therapy as well as discussion of relevant regulation and compliance activities It contains an updated and expanded section on computer applications in radiation therapy and electron beam therapy and features enhanced user friendliness and visual appeal with a new easy to follow format including sidebars and a larger trim size With its user friendly presentation and broad comprehensive coverage of radiotherapy physics this Third Edition doubles as a medical text and handy professional reference **The Search for New Anticancer Drugs** Michael Waring,B.A. Ponder,1992-11-30 Most of the anti cancer drugs in use today were discovered by happy accident rather than design yet the rational design of better anti cancer drugs remains a cherished goal and one of the most important challenges facing medical science This book represents a compilation of views and progress reports which illustrate the diversity of approaches to the problem Recent research has confirmed the belief that critical genetic changes are at work in cancer cells The genome then DNA in biochemical terms surely represents a critical target for specific chemotherapy of cancer and several chapters address the issue of attacking DNA gene targetting and the like Others deal with principles of rational design exploitation of novel modalities and targets or the nuts and bolts of antitumour drug testing While no attempt has been made to provide a comprehensive coverage of this wide ranging and vitally important subject the present volume in the series will provide much food for thought British Journal of Radiology ,1992 **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 ionizing radiation when used locally but also has been of help in combination with systemic chemotherapy where hyperthermia is carried out to the total body Triple modality thermo chemo radiotherapy or other treatment combinations have not been fully evaluated and may demonstrate extended clinical

applications in the future Problems remain with regard to maximizing the effects of hyperthermia as they are influenced by a variety of external and intrinsic factors including bloodflow microenvironment etc While the previous volume has summarized more theoretical aspects of hyperthermia i e biology physiology and physics the present volume compiles the current knowledge relative to the clinical applications of hyperthermia in combination with radiation therapy and or chemotherapy providing a comprehensive overview of its use in cancer management

Programmed Cell Death Martin Lavin,Diane Watters,1993-12-08 Only recently have the cellular and molecular aspects of cell suicide or perhaps euthanasia been investigated From a September 1992 symposium in Brisbane 26 papers report advances in the biochemical mechanisms DNA fragmentation genetic regulation and apoptosis in the immune system and in cancer Annotation copyright by Book News Inc Portland OR

Radiobiological Modelling in Radiation Oncology Roger G. Dale,Bleddyn Jones,2007 The move towards individually optimised treatments using knowledge of normal tissue and tumour radiosensitivity proliferation rates etc in combination with three dimensional planning will need mathematical modelling to achieve its full potential This modelling process will also be capable of helping develop a rational and cost effective use of resources Amongst radiation oncologists and medical physicists there is a need for a greater understanding of the scope applications and limitations of radiobiological modelling particularly in complex situations that include multiple treatment variables the respective influence of which are difficult to separate out by randomised trials without using radiobiologically based analysis In future there will be increasing use of modelling in practical situations including treatment gap corrections normal tissue tolerance predictions optimisation of therapy determined by predictive assays multi modality schedule design the simulation of clinical trials testing contemporaneous medico legal problems and teaching general principals of radiotherapy

Small Molecule DNA and RNA Binders Martine Demeunynck,Christian Bailly,W. David Wilson,2006-03-06 The development of molecules that selectively bind to nucleic acids has provided many details about DNA and RNA recognition The range of such substances such as metal complexes peptides oligonucleotides and a wide array of synthetic organic compounds is as manifold as the functions of nucleic acids Nucleic acid recognition sequences are often found in the major or minor groove of a double strand while other typical interactions include intercalation between base pairs or the formation of triple or quadruple helices One example of a binding mode that has recently been proposed is end stacking on such complex structures as the telomere tetraplex In this comprehensive book internationally recognized experts describe in detail the important aspects of nucleic acid binding and in so doing present impressive approaches to drug design Since typical substances may be created naturally or synthetically emphasis is placed on natural products chemical synthesis the use of combinatorial libraries and structural characterization The whole is rounded off by contributions on molecular modeling as well as investigations into the way in which any given drug interacts with its nucleic acid recognition site

Health Effects of Low Radiation 2003 ,2002-10 This CD rom contains 28 papers presented to the BNES international conference on the health effects of low level radiation This

conference is the fourth in the highly successful series and its aim is to present the fundamental radiobiological and dosimetric information relevant to understanding the current debate on the health effects of exposure to ionizing radiations at low doses and dose rates. It is also intended to provide a forum for discussion of the latest developments in this area and their relevance to the radiological protection of human health and the environment. **International Journal of Radiation Biology**, 2003

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.

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