Ionizing Radiation and Inflammation

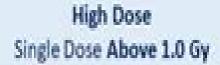






Low Dose Single Dose below 0.1 Gy

Intermediate Dose Single Dose between 0.1–1.0 Gy







- Accelerated Immune Senescence
 - Altered Immune Fitness
- Shift in peripheral Lymphocyte Balance in favor of B Cells
- Pro-inflammatory Responses

- Anti-inflammatory Effects on Already Ongoing Acute and Chronic Inflammation
- Impact on Activated Immune Cells, Endothelial Cells and Osteoblasts/clasts
 - Display Non-Linear Dose-Response Relationships



- Timely Restricted Immune Suppression
- Pro-inflammatory Responses
 (NF-kB, Cytokines), Close
 Connection to DDR
 - Release of danger Signals (DAMPS)
- Side Effects of Radiotherapy (e.g. pneumonitis, Fibrosis)

Low Dose Radiation

National Academies Of Sciences
Engineeri,National Academies of
Sciences Engineering and
Medicine,Division On Earth And Life
Studies,Nuclear And Radiation Studies
Board,Committee on Developing a
Long-Term Strategy for Low-Dose
Radiation Research in the United
States

Low Dose Radiation:

The Future of Low Dose Radiation Research in the United States National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, 2020-01-13 Exposures at low doses of radiation generally taken to mean doses below 100 millisieverts are of primary interest for setting standards for protecting individuals against the adverse effects of ionizing radiation However there are considerable uncertainties associated with current best estimates of risks and gaps in knowledge on critical scientific issues that relate to low dose radiation The Nuclear and Radiation Studies Board of the National Academies hosted the symposium on The Future of Low Dose Radiation Research in the United States on May 8 and 9 2019 The goal of the symposium was to provide an open forum for a national discussion on the need for a long term strategy to guide a low dose radiation research program in the United States The symposium featured presentations on low dose radiation programs around the world panel discussions with representatives from governmental and nongovernmental organizations about the need for a low dose radiation research program reviews of low dose radiation research in epidemiology and radiation biology including new directions and lessons to be learned from setting up large research programs in non radiation research fields This publication summarizes the presentation and discussion of the symposium The Million Person Study of Low-Dose Radiation Health Effects John D. Boice Jr, André Bouville, Lawrence T. Dauer, Ashley P. Golden, Richard Wakeford, 2024-11-25 This book presents original research findings of The Million Person Study of Low Dose Radiation Health Effects MPS the largest and most comprehensive epidemiologic study of its kind to investigate the health effects of low level chronic radiation exposure on American workers and veterans throughout the 20th century Since the early 1900s epidemiologists have studied the consequences of radiation exposures yet the health effects of low levels received gradually over time remain unresolved. This uncertainty comes at a time when the public and workers are experiencing ever increasing levels of radiation exposure from advances in medical radiation imaging techniques e g CT scans frequent flying at high altitudes and environmental and occupational exposures The MPS is providing answers by studying 30 radiation exposed U S populations including workers at nuclear power plants radiologists workers at former Manhattan Project sites nuclear submariners nuclear weapons test participants atomic veterans industrial radiographers and radium dial painters Ongoing for more than 20 years and coordinated by the National Council on Radiation Protection and Measurements Vanderbilt University Medical Center and Memorial Sloan Kettering Cancer Center the MPS is a national effort supported by the Department of Energy National Aeronautics and Space Administration U S Navy Defense Threat Reduction Agency Nuclear Regulatory Commission Centers for Disease Control and Prevention and the Environmental Protection Agency Unparalleled in scope and quality the MPS provides an understanding of low dose health effects that is desperately needed for decision makers and the radiation protection community as society continues to increase the uses of radiation technologies Individual chapters were originally published in the International Journal of

Radiation Biology Leveraging Advances in Modern Science to Revitalize Low-Dose Radiation Research in the United States National Academies Of Sciences Engineeri, National Academies of Sciences Engineering and Medicine, Division On Earth And Life Studies, Nuclear And Radiation Studies Board, Committee on Developing a Long-Term Strategy for Low-Dose Radiation Research in the United States, 2023-03-02 Radiation exposure at low doses below 100 milligray or low dose rates less than 5 milligray per hour occurs in a wide range of medical industrial military and commercial settings The effects of exposure at these levels are not fully understood but there are long standing concerns that such exposure could negatively affect human health Although cancer has been linked to low dose radiation exposure for decades there is increasing evidence that low dose radiation exposure may also be associated with cardiovascular disease neurological disorders immune dysfunction and cataracts Recent advances in research new tools and a coordinated multidisciplinary research program could help fill knowledge gaps about the health impacts of low dose radiation exposures This report calls for the development of a U S research program to study how low doses of radiation affect cancer cardiovascular disease neurological disorders and other disease risks Research should also better define the impacts of radiation doses dose rates types of radiation and exposure duration The report estimates 100 million annually for the next 15 years would be required to conduct epidemiological and biological research and to establish an infrastructure for research The Effects of Low Dose Radiation Elena Burlakova, Valeria Naiditch, 2004-08-31 The papers collected in this book show the results of investigations performed by Russian scientists in the field of low dose irradiation action It is confirmed that low doses do have effects on the human organism and the environment and that the most serious consequences are observed in the far post irradiation period This branch of radiobiology **Preservation of Food by Low-dose Ionizing Energy** Quartermaster Research and Engineering Center (U.S.),1961 **Health Effects of Low Dose Radiation**, 1997 This book examines the current state of our knowledge about the health effects of radiation and looks forward to exciting developments in our understanding of the mechanisms of radiation s interaction with biological systems and the magnitude of the risks as the twenty first century approaches Papers address the epidemiology of nuclear workforces atomic bomb survivors and those affected bythe Chernobyl accident as well as studies into the effects of radiation at the cellular an Low Dose Exposures in the Environment C. Streffer, H. Bolt, D. Follesdal, P. Hall, J.G. Hengstler, P. Jacob, D. Oughton, K. Prieß, E. Rehbinder, E. Swaton, 2013-11-11 The ever increasing release of harmful agents due to human activities have led in some areas of the world to heavy pollution In order to protect human health and the environment environmental standards that shall limit the release and the concentration of those toxic agents in the environment and hence the exposure to it have to be established The related assessment and decision making procedures have to be based on solid scientific data about the effects and mechanisms of these agents as well as on ethical social and economic aspects For risk evaluation the knowledge of the dose response curve is an essential prerequisite Dose responses without a threshold dose are most critical in this connection Such

dose responses are assumed for mutagenic and carcinogenic effects which therefore dominate also the discussion in this book In the environmentally important low dose range risk estimation can only be achieved by extrapolation from higher doses with measurable effects The extrapolation is accompanied with uncertainties which makes risk evaluation as well as risk communication frequently problematic In order to ensure rational efficient and fair decisions beyond a sound scientific assessment the dialogue between disciplines with the affected people and with the general public is necessary In this book the whole range of relevant and essential aspects of risk evaluation and standard setting is addressed Starting with the ethical foundations the sound analysis of recent scientific findings sets the frame for further reflections by theory of cognition psychosocial sciences and jurisprudence The authors end up with concluding recommendations for coping with the recent problems of standard setting in the field of environmentally relevant low doses. The book is designed to a readership of scientists legislators administrators and the interested public Dose, Benefit, and Risk in Medical Imaging Lawrence T. Dauer, Bae P. Chu, Pat B. Zanzonico, 2018-10-11 This timely overview of dose benefit and risk in medical imaging explains to readers how to apply this information for informed decision making that improves patient outcomes The chapters cover patient and physician perspectives referral quidelines appropriateness criteria and quantifying medical imaging benefits The authors have included essential discussion about radiologic physics in medical imaging fundamentals of dose and image quality risk assessment and techniques for optimization and dose reduction The book highlights practical implementation aspects with useful case studies and checklists for treatment planning Clinicians students residents and professionals in medical physics biomedical engineering radiology oncology and allied disciplines will find this book an essential resource with the following key features Discusses risk benefit dose optimization safety regulation radiological protection and shared informed decision making Covers regulatory oversight by government agencies manufacturers and societies Highlights best practices for improving patient safety and outcomes Gives guidelines on doses associated with specific procedures Perez and Brady's Principles and Practice of Radiation Oncology Edward C. Halperin, Carlos A. Perez, Luther W. Brady, 2008 The thoroughly updated fifth edition of this landmark work has been extensively revised to better represent the rapidly changing field of radiation oncology and to provide an understanding of the many aspects of radiation oncology This edition places greater emphasis on use of radiation treatment in palliative and supportive care as well as therapy **Targeted** Radionuclide Tumor Therapy Torqny Stigbrand, Jorgen Carlsson, Gregory P. Adams, 2008-09-01 The last three decades have provided opportunities to explore the potential of treating malignant diseases with antibodies or other targeting molecules labelled with nuclides While considerable advances have been reported there is still a signi cant amount of work left to accomplish before our ambitions can be achieved It now seems timely to review the accomplishments achieved to date and to clarify the challenges that remain The choice of radionuclide the conjugation p cedure employed and the selection of suitable targets were early issues that were faced by our field that still persist however we can now tackle these obstacles

with significantly better insight The expanding array of new targeting molecules recombinant antibodies peptides and agents based upon alternate scaffolds may increase the therapeutic efficacy or even modify the radiation sensitivity of the targeted tumor cell The title of this book Targeted Radionuclide Tumour Therapy Biological Aspects was selected to reinforce the concept that a major focus of this volume was devoted to understanding the biological effects of targeting and radiation These important issues have not previously been the primary focus in this context Furthermore our rapidly expanding knowledge of different types of cell death and the increasingly likely existence of cancer stem cells suggests to us that even more efficient approaches in targeting might be possible in the future The Science of Hormesis in Health and Longevity Suresh Rattan, Marios Kyriazi, 2018-10-23 The Science of Hormesis in Health and Longevity provides a comprehensive review of mild stress induced physiological hormesis and its role in the maintenance and promotion of health Coverage includes the underlying mechanisms of hormesis including details of stress response signaling an enriched environment positive challenges and dose response mechanisms amongst others Research from top experts is presented to provide suggestions for developing novel therapeutic strategies along with lifestyle interventions to promote health and homoeostasis Researchers in aging and physiology gerontologists clinicians and medical students will find this a valuable addition for their work Provides a comprehensive scholarly review of the current state of hormesis in physiology health disease and aging Includes multiple perspectives and in depth analysis by top experts involved in cutting edge research to provide developing novel therapeutic strategies as well as lifestyle interventions Offers a clear understanding of hormesis underlying mechanisms including details of stress response signaling an enriched environment positive challenges dose response mechanisms and more

Radiation-induced effects and the immune system Gabriele Multhoff, Alan G. Pockley, Udo S. Gaipl, Franz Rödel, Numerous developments in molecular biology have led to an explosive growth in the knowledge underlying mechanisms of carcinogenesis cell signalling tumor progression and development of metastasis However cure of cancer is still hampered by the inherited capacity of tumors to become resistant to standard therapies to metastasize from their initial location and to proliferate in other tissue compartments Radiotherapy is one of the main treatment modalities to achieve locoregional tumor control However the treatment of distant metastases further remains to be a challenge In this special topic we are interested to elucidate immunological aspects which are initiated and affected by radiotherapy We also aim to describe the development of innovative immunological strategies from a preclinical stage to clinical application which could be combined with standard radiotherapeutic approaches A special interest will also deal with the effects of radiotherapy on tumor initiating cells as well as on the tumor microenvironment Last but not least the effects of different irradiation sources and qualities such as photones protones and heavy ions will be analyzed with respect to immunological outcome Potential Effects of Low Dose Radiation on Human Cells Bridget Gengler, 2010 Energy and Water Development Appropriations for Fiscal Year ... United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water

Neutronics of Advanced Nuclear Systems Yican Wu, 2019-03-19 This book provides a systematic and Development, 2006 comprehensive introduction to the neutronics of advanced nuclear systems covering all key aspects from the fundamental theories and methodologies to a wide range of advanced nuclear system designs and experiments It is the first ever book focusing on the neutronics of advanced nuclear systems in the world Compared with traditional nuclear systems advanced nuclear systems are characterized by more complex geometry and nuclear physics and pose new challenges in terms of neutronics Based on the achievements and experiences of the author and his team over the past few decades the book focuses on the neutronics characteristics of advanced nuclear systems and introduces novel neutron transport methodologies for complex systems high fidelity calculation software for nuclear design and safety evaluation and high intensity neutron source and technologies for neutronics experiments At the same time it describes the development of various neutronics designs for advanced nuclear systems including neutronics design for ITER CLEAR and FDS series reactors The book not only summarizes the progress and achievements of the author's research work but also highlights the latest advances and investigates the forefront of the field and the road ahead <u>Complex cleanup</u>: the environmental legacy of nuclear weapons production., Energy and Water Development Appropriations for 2003: Department of Energy ... National Nuclear Security Administration ... Power Marketing Administrations United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2002 Energy and Water Development Appropriations for 2003 United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water 107-2 Hearings: Energy and Water Development Appropriations For 2003, Part 4, 2002, *, 2002 Development, 2002

Ionizing radiation reprograms tumor immune microenvironment by inducing immunogenic cell death Fei Yu,Shaoli Song,Haojun Chen,Kuangyu Shi,Weijun Wei,2023-09-25

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