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Band 23

C. Streffer et al.

# Low Dose Exposures in the Environment

Dose-Effect Relations  
and Risk Evaluation



Springer

# Low Dose Exposures In The Environment

**A. Kappas**



## **Low Dose Exposures In The Environment:**

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

## **Low Dose Exposures in the Environment**

Christian Streffer, H. Bolt, D. Follesdal, P. Hall, J.G. Hengstler, P. Jacob, D Oughton, K. Prieß, E. Rehbinder, E. Swaton, 2004-05-03 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

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### **Environmental Exposures and Human Health**

**Challenges** Papadopoulou, Paraskevi, Marouli, Christina, Misseyanni, Anastasia, 2019-03-15 Environmental health is an area with significant developments and noteworthy challenges that expand into various disciplines medicine and public health sociology and communications technology policymaking and legislation Due to the massive amount of health related issues additional literature involving environmental health is required to improve the wellbeing of citizens worldwide Environmental Exposures and Human Health Challenges provides interdisciplinary insights into concepts and theories related to environmental exposures and human health impacts via the air water soil heavy metal exposure and other chemical toxins The book also addresses inequalities and environmental injustices in relation to environmental exposures and health impacts Covering topics such as health policies pollution effects and heavy metal exposure this publication is designed for public health professionals preventive medicine specialists clinicians data scientists environmentalists academicians practitioners researchers and students

### Radiobiology and Environmental Security Carmel E Mothersill, Victoria Korogodina, Colin B.

Seymour, 2011-10-17 This volume like the NATO Advanced Research Workshop on which it is based addresses the fundamental science that contributes to our understanding of the potential risks from ecological terrorism i e dirty bombs atomic explosions intentional release of radionuclides into water or air Both effects on human health DNA and systemic effects and on ecosystems are detailed with particular focus on environmentally relevant low dose ranges The state of the art contributions to the book are authored by leading experts they tackle the relevant questions from the perspectives of radiation genetics radiobiology radioecology radiation epidemiology and risk assessment

### *Environmental Health and the U.S. Federal System* Michael R Greenberg, Dona Schneider, 2019-08-13

This book explains how the U S federal system manages environmental health issues with a unique focus on risk management and human health outcomes Building on a generic approach for understanding human health risk this book shows how federalism has evolved in response to environmental health problems political and ideological variations in Washington D C as well as in state and local governments It examines laws rules and regulations showing how they stretch or fail to adapt to environmental health challenges Emphasis is placed on human health and safety risk and how decisions have been influenced by environmental health information The authors review different forms of federalism and analyse how it has had to adapt to ever evolving environmental health hazards such as global climate change nanomaterials nuclear waste fresh air and water as well as examining the impact of robotics and artificial intelligence on worker environmental health They demonstrate the process for

assessing hazard information and the process for federalism risk management and subsequently arguing that human health and safety should receive greater attention This book will be essential reading for students and scholars working on environmental health and environmental policy particularly from a public health and risk management viewpoint in addition to practitioners and policymakers involved in environmental management and public policy     **Environmental Health Perspectives** ,2004     **Estrogens in the Environment, III** ,1993     **Issues for Debate in Environmental Management** CQ Researcher,2010 Issues for Debate in Environmental Management is a contemporary collection of articles covering core issues within the broad topic of environmental management The book is intended to supplement core courses in the Business and Management curriculum titled Environmental Management Sustainability and Business and Society among other similarly titled courses The book begins with a feature article titled The New Environmentalism Can New Business Policies Save the Environment and progresses through 16 articles of topics generally covered in environmental management courses including global warming the green economy clean energy sources water sources and other opportunities for business and management exploration     *Aging and Vulnerability to Environmental Chemicals* Bernard Weiss,2013 The world's aging populations with age related disorders affecting every organ system are generating medical care costs rising at an unsustainable rate Although such disorders are expected we are now beginning to ask whether exposures to toxic environmental chemicals hasten or account for their onset This book provides a detailed review of current knowledge about the possible associations between a variety of chemical contaminants and adverse effects later in life It will serve as a guide to policy decisions about protecting us from chemical exposures that distort the aging process It provides a guide to current understanding of how our contaminated environment may be influencing the aging process and contains examples of approaches that will help us undertake further research on this topic It will help alert policy makers to the implications of chemical pollution for aging populations and will help formulate initiatives for environmental protection The book provides a comprehensive view of how environmental exposures may alter the health of our aging population For readers engaged in environmental research or aging research it will highlight a number of questions that need more attention For other readers they will learn something about the kind of exposures they should avoid or that they should prompt policy makers to reduce or eliminate     **Mechanisms of Environmental Mutagenesis-Carcinogenesis** A. Kappas,2012-12-06 The 19th annual meeting of the European Environmental Mutagen Society was held in Rhodes Greece from October 21st to 26th 1989 The programme was chosen to explore what is currently known about the mechanisms of mutagenesis and carcinogenesis induced by environmental agents and the questions regarding the relationship of these two processes Recent findings techniques and methodologies in the area of biomonitoring of humans exposed to environmental mutagens carcinogens were presented and considerable attention was also paid to the aspects and issues of collaborative environmental policy Researchers from all over the world contributed to the programme of the meeting with posters and oral

presentations providing a variety of new data and interesting scientific approaches A number of outstanding scientists were invited to present the results of their work It is only their presentations which are included in this book covering the following topics Mutations and carcinogenesis mechanisms of chemically induced genetic effects on molecular chromosomal and cell division level adaptability and repair mechanisms chemical carcinogenesis and oncogenes structure and metabolism of mutagens carcinogens biomonitoring and epidemiology of humans exposed to environmental mutagens carcinogens For the sake of evaluating and controlling the mutagenic and carcinogenic potential of our environment it is indispensable to understand the mechanisms and processes by which chemicals act on the genetic material causing either hereditary disease or cancer The publication of these proceedings will hopefully contribute to this task *Human Health and Environmental Pollution in the Great Lakes*, 1995 **New York Court of Appeals. Records and Briefs.** New York (State),.

*Mitochondrial Dysfunction Caused by Drugs and Environmental Toxicants* Yvonne Will, James A. Dykens, 2018-03-21 Developed as a one stop reference source for drug safety and toxicology professionals this book explains why mitochondrial failure is a crucial step in drug toxicity and how it can be avoided Covers both basic science and applied technology methods Allows readers to understand the basis of mitochondrial function the preclinical assessments used and what they reveal about drug effects Contains both in vitro and in vivo methods for analysis including practical screening approaches for drug discovery and development Adds coverage about mitochondrial toxicity underlying organ injury clinical reports on drug classes and discussion of environmental toxicants affecting mitochondria **Women's Health Review E-book** Philip J. DiSaia, Gautam Chaudhuri, Linda C. Giudice, Thomas R. Moore, Lloyd H. Smith, Manuel M. Porto, 2012-02-04 Efficiently review the latest clinical recommendations developments and procedures with Women's Health Review This comprehensive yet succinct summary is just the medical reference book you need to ensure that your knowledge is up to date Zero in on the most important new information with update boxes and dig deeper into the surrounding text for more background or complementary discussions Review key points quickly with the aid of relevant tables and images Take an organized approach to review with a subspecialty based structure and a convenient outline format Get the authoritative coverage you need thanks to the collaboration of contributions from University of California medical schools each at the top of their specialty

*Environmental Radiobiology* Paul N. Schofield, Carmel E. Mothersill, 2023-10-17 This book focuses on the impacts of anthropogenic radiation on wildlife and ecosystems and provides an in depth look at the approaches and available tools we can use to gain information about biological effects of radiation in the environment The nuclear accidents in Chernobyl in 1986 and Fukushima in 2011 focussed the attention of the world on the vulnerability of ecosystems to radiation In Chernobyl there still remains an exclusion zone where levels are considered to be too high for people and impacts on terrestrial and aquatic ecosystems can still be measured 35 years later In the area impacted by the Fukushima disaster intense remediation is still under way at tremendous cost and causing widespread disruption to the environment That accident impacted the

terrestrial and marine ecosystems In both accidents it became obvious that a radiation protection framework focussing on protection of humans a single species and using evacuation as a key strategy was not sufficient to protect the natural environment The complexity of ecosystems makes developing a protection framework very challenging but in order to even start the process it is vital to gather information about likely impacts of low dose exposures on wildlife and to develop monitoring tools to measure changes over time This book contains reviews and original research aimed at filling our knowledge gaps about these important areas Environmental Radiobiology will be a key resource for academics researchers and advanced students of Radiobiology Radioecology Biology Ecology Biomedicine and Research Methods The chapters included in this book were originally published as a special issue of International Journal of Radiation Biology     *Reviews of Environmental Contamination and Toxicology Volume 258* Pim de Voogt,2021-11-17 *Reviews of Environmental Contamination and Toxicology* attempts to provide concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications     **Environmental Effects on Cognitive Abilities** Robert J. Sternberg,Elena L. Grigorenko,2014-04-08 It sometimes seems that it is difficult to pick up a current newspaper or a magazine without it containing a story about some behavioral characteristic for which it has been found that a gene is responsible Even aspects of behavior that one would feel certain are environmentally controlled are now being attributed in part to the effects of the genes But genes never act alone Their effects are always filtered through the environment The goal of this volume is to discuss how the environment influences the development and the maintenance of cognitive abilities It is a successor to the editors 1997 volume Intelligence Heredity and Environment and a companion to their new volume Family Environment and Intellectual Functioning A Life Span Perspective Taken together the two volume set comprises the most comprehensive existing work on the relation between the environment and cognitive abilities Psychologists parents social workers educators and employers are all likely to find this book of interest     **The Overestimation of Medical Consequences of Low-Dose Exposure to Ionizing Radiation, 2nd Edition** Sergei V. Jargin,2023-10-16 This book analyzes bias and conflicts of interest in numerous papers exaggerating the medical and biological consequences of low dose radiation After the Chernobyl accident many publications overestimated its medical consequences Among the motives for doing so were financing international help publication pressure and the pressure to write numerous theses and articles throughout one s scientific career The accident has been exploited to strangle nuclear energy thus boosting fossil fuel prices Nuclear facilities are potential targets in armed conflicts One of the motives to unleash the war in Ukraine and threats to use nuclear weapons seems to be boosting fossil fuel prices In more developed countries antinuclear resentments have been supported by Green activists well in agreement with the interests of fossil fuel vendors several companies and certain governments Today there are no alternatives to nuclear energy This book argues that in the long run non renewable fossil fuels will become more

expensive contributing to excessive population growth in oil producing regions and poverty elsewhere Federal Register, 1998-02 Reviews in Environmental Health (1998) Gary E. R. Hook, George W. Lucier, 2000-02 The man who invented the future Verne created the prototype for modern science fiction His prophetic 1870 adventure novel featuring a bizarre underwater craft commanded by the mysterious Captain Nemo predated the submarine The crowning achievement of Verne's literary career the book influenced H G Wells and later generations of writers



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