

# EFFECT OF RADIATION ON ORGANS

## RADIATION EFFECTS

Measurements in millisieverts (mSv). Exposure is cumulative.

- Potentially fatal radiation sickness. Much higher risk of cancer later in life.**
  - 10,000 mSv:** Fatal within days.
  - 5,000 mSv:** Would kill half of those exposed within one month.
  - 2,000 mSv:** Acute radiation sickness.
- No immediate symptoms. Increased risk of serious illness later in life.**
  - 1,000 mSv:** 5% higher chance of cancer.
  - 400 mSv:** Highest hourly radiation recorded at Fukushima. Four hour exposure would cause radiation sickness.
  - 100 mSv:** Level at which higher risk of cancer is first noticeable
- No symptoms. No detectable increased risk of cancer.**
  - 20 mSv:** Yearly limit for nuclear workers.
  - 10 mSv:** Average dose from a full body CT scan
  - 9 mSv:** Yearly dose for airline crews.
  - 3 mSv:** Single mammogram
  - 2 mSv:** Average yearly background radiation dose in UK
  - 0.1 mSv:** Single chest x-ray



**EYES** High doses can trigger cataracts months later.

**THYROID** Hormone glands vulnerable to cancer. Radioactive iodine builds up in thyroid. Children most at risk.

**LUNGS** Vulnerable to DNA damage when radioactive material is breathed in.

**STOMACH** Vulnerable if radioactive material is swallowed.

**REPRODUCTIVE ORGANS** High doses can cause sterility.

**SKIN** High doses cause redness and burning.

**BONE MARROW** Produces red and white blood cells. Radiation can lead to leukaemia and other immune system diseases.

# Biological Radiation Effects

**Marylou Ingram**



## **Biological Radiation Effects:**

*Biological Effects of Radiation* J. E. Coggle, 1983      **Biological Radiation Effects** Jürgen Kiefer, 2012-12-06 The biological action of radiation undoubtedly constitutes an issue of actual concern particularly after incidences like those in Harrisburg or Chernobyl These considerations however were not the reason for writing this book although it is hoped that it will also be helpful in this respect The interaction of radiation with biological systems is such an interesting research objective that to my mind no special justification is needed to pursue these problems The combination of physics chemistry and biology presents on one hand a fascinating challenge to the student on the other it may lead to insights which are not possible if the different subjects remain clearly separated Special problems of radiation biology have quite often led to new approaches in physics or vice versa a recent example is microdosimetry chapter 4 Biological radiation action comprises all levels of biological organization It starts with the absorption in essential atoms and molecules and ends with the development of cancer and genetic hazards to future generations The structure of the book reflects this Beginning with physical and chemical fundamentals it then turns to a description of chemical and subcellular systems Cellular effects form a large part since they are the basis for understanding all further responses Reactions of the whole organism concentrating on mammals and especially humans are subsequently treated The book concludes with a short discussion of problems in radiation protection and the application of radiation in medical therapy These last points are necessarily short and somewhat superficial

**Biological Effects of Radiations** Daniel Grosch, 2012-12-02 *Biological Effects of Radiation* Second Edition aims to present an organized survey of the various experiments wherein living materials have been exposed to ionizing and exciting types of radiations However this book focuses on the effects of radiation to lower organisms as these have received less attention It tells how small amount of energy can damage submicroscopic structure and ultimately alter the appearance and abilities of such organisms Divided into five parts this book starts off with two introductory chapters in the first part It explains the effects of radiation Then other parts of the book focus on the impact of radiation from cellular to organ level How the lower organisms response is then discussed Lastly the book explains the interrelations between organisms in contaminated areas Same with the first edition emphasis is given on the consequences of mutations as a whole chapter is devoted to this topic Furthermore this book covers discoveries from experiments with cultured cells This book is a good text reference for students and professionals Also it can be of great help to scientists researchers and specialists involved in the biological response to radiation

**Federal Research on the Biological and Health Effects of Ionizing Radiation** National Research Council (U.S.). Committee on Federal Research on the Biological and Health Effects of Ionizing Radiation, Assembly of Life Sciences (U.S.). Committee on Federal Research on the Biological and Health Effects of Ionizing Radiation, 1981

**The Effects of Radiation and Radioisotopes on the Life Processes: Radiation effects on molecules of biological interest.** *Zoology* , 1963      *Biological Effects of Radiation* , 1958      *Nuclear Science Abstracts*

,1976 **Introduction to Biological Radiation Effects** U. L. Prenn,1994 *A Primer on Low-level Ionizing Radiation and Its Biological Effects* Edward W. Webster,American Association of Physicists in Medicine. Biological Effects Committee,1988 **Biological Risks of Medical Irradiation** American Association of Physicists in Medicine. Summer School,American Association of Physicists in Medicine,1980 **Biological Effects of Ionizing Radiation** United States. Committee on Federal Research into the Biological Effects of Ionizing Radiation,1979 **Biological Effects of Ionizing Radiation** Marylou Ingram,1966 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 *Biological Effects of Ionizing Radiation* Committee on Federal Research into the Biological Effects of Ionizing Radiation,National Institutes of Health (U.S.),1979 **INIS Atomindex** ,1984 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **The Biological Effects of Atomic Radiation** National Academy of Sciences (U.S.),1960 **Biological Effects of Ionizing Radiation** ,1979 **Biological Effects of Ionizing Radiation** United States. Committee on Federal Research into the Biological Effects of Ionizing Radiation,1979 Radiation Biology Alison P. Casarett,American Institute of Biological Sciences,1968

The book delves into Biological Radiation Effects. Biological Radiation Effects is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Biological Radiation Effects, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Biological Radiation Effects
  - Chapter 2: Essential Elements of Biological Radiation Effects
  - Chapter 3: Biological Radiation Effects in Everyday Life
  - Chapter 4: Biological Radiation Effects in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Biological Radiation Effects. The first chapter will explore what Biological Radiation Effects is, why Biological Radiation Effects is vital, and how to effectively learn about Biological Radiation Effects.
3. In chapter 2, this book will delve into the foundational concepts of Biological Radiation Effects. The second chapter will elucidate the essential principles that need to be understood to grasp Biological Radiation Effects in its entirety.
4. In chapter 3, this book will examine the practical applications of Biological Radiation Effects in daily life. This chapter will showcase real-world examples of how Biological Radiation Effects can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Biological Radiation Effects in specific contexts. The fourth chapter will explore how Biological Radiation Effects is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Biological Radiation Effects. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Biological Radiation Effects.

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