



Concepts In Radiation Cell Biology

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Concepts in Radiation Cell Biology summarizes current concepts related to the effects of radiation on cell biology, with emphasis on the underlying macromolecular basis for cellular changes in irradiated cells. It explores the effects of non-ionizing radiation, such as ultraviolet and visible light; the use of laser light in cellular studies; and the biological effects of ionizing radiation on cells. Results of ultraviolet studies implicating DNA as the main target macromolecule responsible for radiation injury, such as division delays, lethality, and delayed DNA replication, are presented.

Divided into eight chapters, this volume begins with an overview of ultraviolet irradiation of DNA as well as the physical and biological properties of irradiated DNA. It then discusses methods used in the photoinactivation of viruses; the effects of ultraviolet radiation on bacteria; radiation-induced biochemical changes in protozoa; and techniques for the analysis of radiation-induced mitotic delay in synchronously dividing sea urchin eggs. The book also covers the effects of radiation on mammalian cells; the effects of ionizing radiation on higher plants; and the photodynamic effects of laser light on cells.

This book is a valuable resource for cell biologists, as well as students and investigators who are seeking the necessary information for further experimentation in radiation cell biology.

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