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Biomolecular Action of Ionizing Radiation (Series in Medical Physics and Biomedical Engineering)

Shirley Lehnert

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Embracing the transformation of radiation sciences by the recent surge of developments in molecular biology, this progressive text offers an up-to-date analysis of *in vitro* and *in vivo* molecular responses in the body induced by ionizing radiation. With a unique emphasis on medical physics applications, **Biomolecular Action of Ionizing Radiation** also presents a much needed, in-depth perspective on clinical applications for the treatment of cancer and radiation injuries.

Based on a popular course given by the author at McGill University,the bookplaces the traditional tenets of radiation biology in the context of contemporary cell and molecular biology. Using terms that non-experts in molecular biology can understand, it clarifies the underlying mechanisms of radiation effects on molecular interactions including signal transduction pathways, modes of cell killing, and non-targeted effects. The author subsequently associates key principles and advances with potential applications, including the use of ionizing radiation as a cytotoxic and cytostatic agent, and radiosensitization by targeting molecular intermediates or signaling molecules involved in radiation-induced processes.

Raising the standard for radiation biology texts that are currently available, **Biomolecular Action of Ionizing Radiation** is an outstanding resource for advanced undergraduate and graduate students in medical physics, radiation oncology, radiation biology, and those who have an interest in the radiation sciences and in cancer treatment.

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