

Special Issue

Radiation-Induced Genotoxicity and Health Effects

Message from the Guest Editors

Radiation exposure is a major public health concern, with potential health consequences. Radiation can cause genotoxic damage to the genetic material (DNA) of living organisms and is particularly known for its ability to generate different types of DNA damage, including DNA single-/double-strand breaks, base alterations, and cross-links, among others. Radiation-induced genotoxicity can lead to different health effects, including deterministic effects (such as acute radiation syndrome) and stochastic effects (such as cancer), mainly depending on the radiation dose and dose rate. In addition, the application of radiation in medicine, agriculture, and other fields has been greatly developed. Therefore, it is crucial to further understand the genotoxicity and health effects caused by various types of radiation to provide a theoretical basis for the development of radiation biology and its applications. This Special Issue will provide a platform for researchers to share their latest achievements and new insights into radiation-induced genotoxicity and health effects.

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