

Special Issue

Effects of Ionizing Radiation on Biomolecular Systems

Message from the Guest Editor

Critical factors to the cellular response to ionizing radiation include alterations in protein expression and metabolomic, lipidomic, and epigenetic factors. In addition, the development of high-throughput “omics” has, in recent decades, revolutionized the study and the understanding of the effects of ionizing radiation (IR) on biological systems. This Special Issue focuses mainly on recent advancements in the “omics” field, on understanding the effects of IR on living systems, and on identifying “omics”-based molecular features or biomarkers of IR exposure and response. Particularly welcome are studies involving the identification of radiation signatures in bodily fluids for the identification of biomarkers of radiation and dose exposure.

Guest Editor

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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