

Special Issue

Biological Effects of Ionizing Radiation on Tumour Cells

Message from the Guest Editor

The study of the action of ionizing radiation on cells represents the platform for translation of basic research into clinical radiation oncology. Indeed, a solid understanding of the interaction between ionizing radiation and normal or tumor cells is a mandatory step for the comprehension and development of new radiotherapeutic approaches. We seek the submission of original research papers and reviews of this topic which provide an overview of the status of research on both basic and applied aspects of radiobiology. In particular, the aim is to focus on current developments and cutting-edge research in the field of modern cell radiobiology. Topics include, but are not limited to, particle radiotherapy, BNCT, novel cell and animal models for radiobiology research, flash radiotherapy, dose rate effects, oxygen effects, senescence, cell–cell interaction, cancer stem cells, radiosensitizers and radioprotectors, combination treatments, bystander effects, immune radiobiology, and the tumor microenvironment. We also welcome manuscripts related to biophysical models of ionizing radiation interactions with cells.

Guest Editor

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Deadline for manuscript submissions

closed (24 October 2022)



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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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