

Special Issue

Molecular Mechanisms of Combined Radiation Injury and Its Therapies

Message from the Guest Editor

Combined radiation injury (CI) is a serious problem as it is more likely to be encountered than radiation injury (RI) in the real world. CI is defined as radiation exposure that takes place before or after a form of trauma that can be a physical wound, burn, hemorrhage, infection, blasting, bone fracture, or total brain injury, to name but a few examples. It is evident that while RI causes acute radiation syndrome (ARS), CI compounds the effects of ARS, resulting in multiorgan dysfunction and increases in mortality. Although radiation-induced cataracts are not fatal, the subject receives little attention.

The molecular mechanisms of CI are complex and not fully understood. Moreover, there are no radioprotectants, radiomitigators, or therapeutics available for preventing or treating CI because of its complexity. For this Special Issue, we aim to invite original articles or reviews that report on the current progress of molecular mechanisms of CI, CI-induced ARS, delayed effects of CI, and prophylactic drugs and therapeutics for CI, including gene, cell, or combinational therapies targeting bone marrow, gastrointestinal system, endothelium, brain, skin, eye, lung, and kidney.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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