



Molecular Mechanisms of Combined Radiation Injury and Its Therapies

Guest Editor:

Dr. Juliann G. Kiang

Armed Forces Radiobiology
Research Institute, Uniformed
Services University of the Health
Sciences, Bethesda, MD 20889-
5648, USA

Deadline for manuscript
submissions:

closed (31 March 2020)

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.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, Grosspeteranlage 5
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