Special Issue

Radiation-Induced DNA Damage and Toxicity

Message from the Guest Editors

Radiation-induced DNA damage and toxicity is a critical area of study that explores how ionizing radiation interacts with biological systems, leading to cellular and molecular damage, particularly at the DNA level. When exposed to radiation, cells can experience direct DNA damage, such as double-strand breaks, or indirect damage through the generation of reactive oxygen species (ROS). This Special Issue will gather cuttingedge research on the molecular mechanisms of radiation-induced DNA damage, advancements in DNA repair strategies, the development of biomarkers for radiation exposure, and novel therapeutic strategies to mitigate toxicity, and will help in understanding the implications of radiation for public health and safety. In this Special Issue, original research articles, brief reports, reviews, and interviews are welcome. The research areas may include all aspects of ionizing and non-ionizing radiation-induced DNA damage, ionizing and non-ionizing radiation's effects on cancer, and ionizing and non-ionizing radiation on the immune system, among other relevant topics.

Guest Editors

Dr. Mohammad Asif Sherwani

Department of Dermatology, School of Medicine, University of Alabama at Birmingham, Birmingham, AL 35294, USA

Prof. Dr. Muhammad Magbool

Department of Clinical & Diagnostic Sciences, The University of Alabama at Birmingham, Birmingham, AL 35294, USA

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Message from the Editor-in-Chief

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.

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

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