

Special Issue

DNA Damage, Repair, and Cancer Metabolism

Message from the Guest Editor

Genomic integrity is continuously being threatened by a plethora of DNA-damaging agents both from inside and outside of the cell. To counteract these harmful threats, cells have evolved a defense mechanism called the DNA damage response, which involves DNA repair, cell cycle checkpoints, replication stress, and programmed cell death. It is certain that a better understanding of the DNA damage response will provide new avenues for us to prevent and treat conditions posed by DNA damage, such as cancer and aging. This Special Issue aims to highlight the latest advances in the pharmacokinetic and pharmacodynamic analyses of a certain DNA-damaging agent; the discovery of novel factors and regulatory mechanisms of the DNA damage response, including DNA repair, checkpoint, replication stress, and cell death; as well as crosstalk between the systems. Reviews or articles on the molecular targets of synthetic lethality, strategies for personalized precision cancer therapy, and molecular mechanisms of cellular senescence modulated by the DNA damage response will also be considered for publication.

Guest Editor

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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.

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