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DNA Damage, Repair, and Cancer Metabolism

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.



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Special Issue



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Message from the Editor-in-Chief

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