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DNA Damage Repair in Cancer: Genetics, Molecular Mechanisms, Diagnostic and Therapeutic Perspectives

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Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

Dear Colleagues,

DNA damage response (DDR) plays a crucial role in genome integrity preservation. Changes in DNA damage signaling pathways, DNA repair, and DNA recombination, among other mechanisms, can potentially lead to genomic instability, increase susceptibility to cancer, and influence cancer treatment. Genome instability is a well-established hallmark of cancer, also showing a role in tumor sensitivity and resistance to cancer therapy (including chemotherapy and radiation). Since genome instability, mutation burden, and DNA repair efficiency in cancer cells may have prognostic and predictive value, they also provide a portfolio of new molecular targets and treatment strategies in cancer.

We invite researchers to submit research and review articles addressing various issues DNA repair in cancer, including but not limited to the following topics:

DNA damage and repair as mechanisms of carcinogenesis

DDR in cancer biology

Role of DNA damage and repair in cancer diagnosis and prognosis

DNA repair as a molecular target and therapeutic option in cancer



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Special Issue



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Message from the Editor-in-Chief

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