

Special Issue

DNA Damage and DNA Repair Pathways in Cancer Development

Message from the Guest Editor

DNA lesions produced by a variety of genotoxic stresses are precisely repaired to avoid the genomic instability which is associated with a high predisposition to cancer development. The occurrence of unrepaired DNA lesions is countered by DNA-damage response (DDR) composed of complex cascades followed by the induction of cell-cycle arrest or apoptosis. As most tumors show impaired DDR, many studies have focused on the understanding of detailed molecular mechanisms in DDR-pathways and/or cancer-related DNA repair defects to reveal the cause of cancers. Comprehensive analyses of canonical and non-canonical DNA repair pathways and the interactions of each molecule defective in various cancers are promising to search for potential therapeutic targets. Therefore, authors are invited to submit original research and review articles that address the physiological, pathophysiological, pharmacological, and epidemiological importance of DDR and/or DNA repair pathways in cancer development.

Guest Editor

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