

Special Issue

Molecular Advances in DNA Repair and Damage Research

Message from the Guest Editor

Genetic material is continuously exposed to genotoxic insults and is crucially reliant on DNA repair mechanisms. Genome maintenance processes vary between somatic and germ cells, with somatic cells requiring maintenance only during an individual's lifespan, while the germline perpetuates its genetic information indefinitely. Mechanistically diverse repair machineries recognize and address DNA lesions. The DNA damage response impacts a wide range of homeostatic processes and can ultimately lead to cell fate changes, such as apoptosis or cellular senescence. DNA damage is causally linked to the aging process and aging-associated diseases, notably cancer. In this Special Issue, we invite manuscripts that explore DNA damage and repair mechanisms, genomic instability, pharmaceutical drug development, therapeutic resistance and carcinogenesis related to one or more DNA damage/repair proteins. We sincerely hope that this collection can contribute to the field of oncology. To this end, partial clinical research and survey studies are not suitable.

Guest Editor

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