

Special Issue

DNA Damage, Genomic Instability and Human Diseases

Message from the Guest Editor

It is well known that protecting of genome is important for each organism because DNA alterations such as mutations and chromosomal aberrations can lead to tumorigenesis, development of various diseases, or cell death. Therefore, cells have evolved multiple mechanisms to detect and repair DNA breaks, mismatches and mutations of damaged or incompletely replicated DNA to secure the integrity of the genome. In this Special Issue, we welcome reviews, original research articles and communications that advance our understanding of all aspects of mechanisms participating in genome maintenance, with a special focus on better understanding of the regulatory mechanisms of DNA repair pathways, crosstalk between different DNA repair pathways and coordination of DNA repair complexes with DNA replication or RNA transcription machinery. Keywords

- DNA damage
- DNA repair
- DNA damage response
- Genomic instability
- DNA replication
- DNA damage checkpoint

*An **early-bird discount** will be offered for submission before the deadline and you could contact SI editor liana.duan@mdpi.com for details.

Guest Editor

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closed (31 October 2022)



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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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