



Genome Maintenance and Cancer

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closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

Genome instability has been recognized as a driving force for the development of cancer, and DNA repair systems as crucial factors ensuring the maintenance of genome stability and prevention of cancer. DNA damage and DNA repair pathways are promising cancer biomarkers with high potential for use in personalized treatment approaches. Authors are warmly invited to submit original research and review articles to this Special Issue which address the latest progress and current understanding of the role of DNA damage and repair in cancer.

Topics include, but are not limited to:

- Role of genome instability in cancer
- Prognostic value of genome instability
- Use of DNA repair inhibitors in cancer treatment
- Role of DNA repair variants in cancer incidence and treatment
- Synthetic lethality based on the use of DNA repair inhibitors
- Targeting of DNA repair by miRNA
- Loss of DNA repair in cancer
- Drug targeting of genome instability in cancer
- DNA repair biomarkers
- Role of genome instability and DNA repair in tumor mutation load





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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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