

## Special Issue

# Genome Instability in Health and Disease

### Message from the Guest Editor

A stable genome is a fundamental characteristic of all eukaryotes that is essential for the maintenance and accurate segregation of genetic material in daughter cells. As such, genome stability is vital for normal cell function, physiology, and ultimately species survival. Despite its critical nature, the extensive array of genes, proteins and cellular processes required for genome stability remain poorly understood. Nevertheless, there exist many well characterized processes that are essential for preserving genome stability including DNA repair, DNA replication, centrosome biology, chromatin compaction and chromosome dynamics. Consequently, the aberrant expression, function and regulation of these processes is implicated in disease pathogenesis but is also being explored as a potential therapeutic strategy for disease like cancer.

This Special issue aims to expand our current understanding of genome stability in both physiological and pathological conditions, and on its possible therapeutic exploitation. Experimental studies employing in vitro and in vivo models or review articles are welcome for consideration.

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### Guest Editor

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## International Journal of Molecular Sciences

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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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