

Special Issue

New Findings and Insights in Inflammation-Induced DNA Damage, Mutations and Cancer

Message from the Guest Editor

Inflammation and mutagenesis are well-known hallmarks of cancer, and while the mechanisms linking inflammation or mutagenesis to cancer are frequently interrogated, the interrelationships between inflammation and mutagenesis and subsequent influences on cancer are less well studied. DNA damage is a key node in the network that connects inflammation and mutagenesis—inflammation both causes and is caused by DNA damage, and DNA damage is the dominant cause of mutagenesis (aside from spontaneous replication errors). Additionally, increases in cellular proliferation (a result of inflammation and a feature of carcinogenesis) sensitize cells to DNA damage-induced mutations. Environmental exposures and endogenous processes can increase inflammation, DNA damage, and/or proliferation, in turn provoking the progressive accumulation of mutations that leads to carcinogenesis. This Special Issue of the *International Journal of Molecular Sciences* is dedicated to recent advances in understanding the complex relationships between inflammation, DNA damage, and mutagenesis that govern cancer development.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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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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