

Special Issue

DNA Dynamics

Message from the Guest Editor

Since the identification of the double helix structure of DNA in 1953, significant progress has been made in understanding how this fascinating molecule is able to both preserve and transmit genetic information. Sophisticated DNA replication mechanisms ensure the correct duplication of genetic information and equally specialized repair mechanisms help to address and resolve the insults suffered during normal cellular metabolism.

Beyond this remarkable stability, the double helix of DNA is an extremely dynamic molecule and it actively contributes to its multiple functions. Dynamic interaction between proteins and DNA regulate important processes such as DNA transcription and repair.

The complex structure of chromatin in eukaryotic organisms is also a further contribution to the dynamism of DNA and actively collaborates with its primary functions.

The intent of this special issue of International Journal of Molecular Sciences is to welcome papers and reviews that analyze these aspects of DNA dynamics also taking advantage of recent technologies that allow single cell analysis.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 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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