

Special Issue

Epigenetics and Beyond: New Advances in Drug Discovery

Message from the Guest Editors

Epigenetics studies heritable or acquired changes in gene expression. Changes are caused by non-genetic mechanisms without alterations in gene structure or sequence. Typical mechanisms are histone modifications, DNA methylation, and chromatin remodelling, which are essential in the regulation of many physiological processes. Alterations in these mechanisms can have implications in a number of cancers, as well as in immunological and neurodegenerative conditions. Several targets have emerged as tools to treat different diseases. Among these targets, histone deacetylases (HDACs), histone acetyltransferases (HATs), histone methyltransferases (HMTs), histone demethylases (KDMs), protein kinases (PTKs), protein phosphatases (PPs), ubiquitin ligases and deubiquitinating enzymes (DUBs) are druggable and offer the opportunity to study different diseases, including infectious diseases. In this context, we welcome review articles and original articles from chemical and biological points of view, ranging from drug discovery to biological/pharmacological studies, in order to fully cover topics related to the molecular sciences.

Guest Editors

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Deadline for manuscript submissions

closed (20 March 2025)



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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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