

Special Issue

Modifications of Molecular Structure and Interactions in Epigenome, 3rd Edition

Message from the Guest Editors

Epigenetic regulation involves heritable changes in gene expression that occur independent of changes in the primary DNA sequence. Such changes in gene expression are coupled to the chromatin structure.

Modifications of its components, like DNA methylation, covalent histone modifications, nucleosome positioning, histone variants, and miRNAs, adds up to combinatorial patterns collectively termed as epigenome. The regulatory machinery also involves numerous enzymes and other proteins interacting with chromatin components. The understanding and precise description of such molecular interactions is key to the mapping of the epigenome, and to the design of new molecules interfering with epigenetic diseases. The present Special Issue welcomes manuscripts on molecular interactions of epigenetic regulation, including new methodological approaches and applications of established techniques.

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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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