

Special Issue

Molecular Research on Epigenetic Modifications

Message from the Guest Editors

Epigenetics generally refers to heritable changes in gene expression and in the organization of chromatin that are not caused by alterations in the DNA sequence. The complexity of the mammalian genome is regulated by heritable epigenetic mechanisms, which are the basis of cell differentiation, development and homeostasis. These mechanisms help to determine cell fate and phenotype and must be stably maintained during cell division to preserve their identity, as well as to react to intrinsic signals during development or those originating from external environmental factors. Aberrations in epigenetic modifications are essential protagonists in the genesis and progression of various diseases, including cancer, assuming a predominant role in the understanding and treatment of these diseases. The molecular basis of epigenetics is very complex and the discovery of new molecular targets for new and more powerful drugs has led to the search for small modulating molecules that can revert an increasing number of diseases. We welcome researchers to contribute to the scientific advancement of this promising new discipline.

Guest Editors

Dr. Marco Miceli

Dr. Mariella Cuomo

Dr. Rosa Della Monica

Deadline for manuscript submissions

20 February 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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