

Special Issue

Advances in the Epigenetic Regulation of Stem Cells in Health and Disease

Message from the Guest Editors

Stem cells have peculiar properties, such as differentiation and self-renewal, which can be strongly influenced by epigenetic changes and environmental stressors. Molecular biology and cell morphology studies, through fluorescence and electron microscopy methods, have allowed for the highlighting of alterations, at the mitochondrial level, associated with several diseases. Unraveling epigenetic factors and their roles in influencing pluripotency as well as stem cell differentiation capabilities could pave the way for new therapeutic approaches in regenerative medicine. This Special Issue will include a selection of research papers and reviews concerning various aspects of the molecular and epigenetic regulation of stem cell behavior. In addition, clinical studies evaluating epigenetics and stem cells in regenerative medicine are suitable to be submitted to this Special Issue.

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Deadline for manuscript submissions

closed (31 October 2023)



International Journal of Molecular Sciences

an Open Access Journal
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Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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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.

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