

Special Issue

MicroRNAs and Stem Cells 3.0

Message from the Guest Editors

MicroRNAs are involved in cellular processes such as differentiation, growth, and apoptosis. Stem cells have peculiar properties such as differentiation and self-renewal, which can be strongly influenced by epigenetic changes. Notably, miRNAs are able to fine-tune stem cell behavior by suppressing the translation of many target mRNAs, thus inducing fluctuations in gene expression and protein translation. Unraveling epigenetic factors and their role in influencing pluripotency and 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 about various aspects of the molecular regulation of stem cell behavior and cellular phenotype by miRNA. In addition, clinical studies evaluating miRNA and stem cells in regenerative medicine are suitable for submission to this Special Issue.

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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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