

Special Issue

Genomics and Epigenetics of Stem Cell

Message from the Guest Editors

Stem cells are the focus of extensive research and medical applications. Acquiring knowledge of their epigenetic changes, which can influence upregulation and downregulation of the cell genome, is important to describe the mechanisms and function of stem cells. Proper differentiation in one of more than 200 different cell types in the human body is essential for safe and effective applications in regenerative medicine. Epigenetics play key roles in development, stem cell differentiation, and have a high impact on human disease, and they occur throughout life from embryonic development into adulthood. Stem cells undergo several cellular divisions in a regulated manner; the genetic code remains the same in theory, but several mutations or other phenomena related to aging can cause changes in phenotypes. The information is particularly essential for strategies of cell-based therapies, where pure populations of required cell types are required for transplantation. This Special Issue of *IJMS* focuses on the research field of “Genomics and Epigenetics of Stem Cell” and welcomes both original research articles and review papers.

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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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