

Special Issue

Stem Cells in Health and Disease

Message from the Guest Editors

In recent years, our knowledge about the dual role of stem cells in health and disease has increased significantly. However, the biological and molecular mechanisms of this double function are yet to be fully understood.

New advancements in stem-cell research open a new door for patients suffering from diseases not yet successfully treated. Stem-cell-based therapy, including embryonic stem cells, human pluripotent stem cells, multipotent mesenchymal stem cells, and neural stem cells, has recently emerged as a key player in regenerative medicine because of the inherent ability of these stem cells to self-renew and the potential to differentiate into other cell types. Moreover, recent advances in cell-reprogramming and genome-editing technologies have provided additional tools for developing more effective and tailored stem-cell-based therapies.

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