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Application Status and Development Prospects of Stem Cells

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Message from the Guest Editor

Stem cells pave the way for the formation of all tissues and organs of the body and can play different roles in development, disease progression, and tissue repair processes. They are unspecialized cells and based on their differentiation potential, can be classified in several types, totipotent stem cells, pluripotent stem cells, multipotent stem cells, oligopotent stem cells, unipotent stem cells. Up to now, stem cells represent a great promise in different application fields, which include cell therapies, disease modeling, and drug development, among others.

This Special Issue in *Genes* on the “Application Status and Development Prospects of Stem Cells” will address the main applications of stem cells in clinics and other relevant advances related to this novel and promising research topic. Therefore, contributions by experts in the field, in the form of original research papers, mini-reviews, and reviews are most welcome.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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