



Stem Cells Application in Clinical Practice: Advances and Challenges

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Message from the Guest Editors

The use of SCs and of synthetic biology approaches to treat disease has significant promise. Likewise, enthusiasm for SC therapy is running high within the medical community of researchers and patients.

Many aspects concerning the biology of SCs, their differential potential in vitro and in vivo, and their mechanisms of action remain unsolved. However, the use of SCs requires a high level of competence during all phases of the procedure, from cell isolation to clinical trial evaluation. Finally, the clinical application of SCs fosters numerous ethical and safety discussions.

This Special Issue of *Genes* will place a special emphasis on basic, translational, and clinical research in stem cell therapeutics and regenerative medicine. We welcome research articles as well as reviews addressing different issues related to stem cells.

Topics of interest include the following:

- Sources, isolation, nature, and molecular characterization of SCs
- Phenotyping of SCs
- Developmental potential, biological functions, and therapeutic uses of SCs
- Clinical studies using SCs
- Adult and fetal SCs





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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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