

Special Issue

Study on Human Mesenchymal Stem Cells

Message from the Guest Editor

Mesenchymal stem cells (MSCs) are a group of multipotent cells of mesodermal origin. They were originally obtained from bone marrow, although MSC-like cells were subsequently derived from other tissues, including the placenta, umbilical cord, adipose tissue, skeletal muscle, and corneal stroma. Despite being used in hundreds of clinical trials, their retrospective derivation in culture poses challenges in understanding their anatomical identity, phenotype, tissue localization, and biological functions. MSCs have emerged as one of the most promising sources for cardiac regenerative and reparative therapy. At present, there is a need to discern the characteristics of tissue-specific MSCs and harmonize the methods and definitions for these cells. Likewise, novel approaches (genetic engineering, physical therapy) have been developed to enhance the use of MSCs in the treatment of various diseases. This Special Issue will focus on different aspects of human mesenchymal stem cells, including molecular, gene, application, therapy, etc. We welcome original reviews, research articles, communications, and technical notes on human mesenchymal stem cells.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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