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Microenvironmental Factors and Functional Modulation in Mesenchymal Stem Cells 2.0

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Deadline for manuscript submissions: closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

Mesenchymal stem cells (MSCs) are biological candidates for numerous applications in the fields of regenerative and immunotherapy. Their multilineage medicine differentiation ability and immune modulatory functions promote their application for disease management in different inflammatory, degenerative, and immunological conditions. However, the local cellular microenvironment and the MSC source can control miscellaneous biological features of these cells. The crosstalk between cells mesenchymal stem and numerous microenvironmental factors has been reported to endorse a variety of biological responses and functions. Stimulation or inhibition of MSC receptors and functions by the surrounding microenvironmental factors before or within potential treatment events may serve as an effective method to control the biological function of MSCs as needed in different therapeutic stages of the disease.

This Special Issue aims to be a collection of recent research on microenvironmental factors and functional modulation in mesenchymal stem cells.

Specialsue

We look forward to your contributions.



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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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