Special Issue

Molecular and Cellular Mechanisms underlying the Immunomodulatory Potential of Mesenchymal Stromal Cells

Message from the Guest Editor

Mesenchymal stromal Cells (MSCs) are multipotent non-hematopoietic cells which exert a myriad of functions through cell-cell contact or secretion of a plethora of molecules (PGE2, IDO, HGF, IL-10, HLA-G, miRNAs, metabolites etc.) which can also be transported by extracellular vesicles to the target tissues. These molecules may either directly affect function of cells of innate and adaptive immunity or indirectly by acting on cell populations (T-regulatory cells, T cells producing GM-CSF, coronin-1a expressing T cells, regulatory monocytes etc.), which in turn themselves may modulate the immune response. Based on their immunosuppressive properties, MSCs hold great promise in the treatment of immune disorders such as graft-versus-host disease and many other inflammatory disorders in the organism. This special issue should provide more insights into the most currently uncovered mechanisms of action which mediate the cross-talk of MSCs with the cells of immune system in a preclinical and clinical setting. For further reading, please visit the Special Issue website.

Guest Editor

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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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