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

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Deadline for manuscript submissions:

closed (30 June 2022)

Message from the Guest Editor

Dear Colleagues,

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](#).



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