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Mesenchymal stem cell (MSC) therapy offers a promising treatment option for autoimmune diseases, sepsis, and in transplant surgery (1–7). However, the underlying cellular and molecular mechanisms of MSC-mediated immunomodulation have not been fully clarified. Studies have demonstrated various immunomodulatory changes following the administration of MSCs, although a clear picture is still missing and study results are often inconsistent. This might partially be explained by the fact that MSCs from dif...

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Cited by: 150 Author: Andreas Robert Rudolf Weiss, Marc Hen...
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Sep 01, 2020 · MSCs participate in both innate immunity and adaptive immunity, and their immunomodulatory functions are exerted mainly via interactions with immune cells through cell-to-cell contact and paracrine activity involving T cells, B cells, natural killer (NK) cells, macrophages, monocytes, dendritic cells (DCs), and neutrophils [] (). Download : Download high-res image (350KB)

Cited by: 13 Author: Na Song, Na Song, Na Song, Martijn Sch...
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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 64790

Manuscript Type: REVIEW

Effects of living and metabolically inactive mesenchymal stromal cells and their derivatives on monocytes and macrophages

Sant'Ana AN *et al.* Effects of MSCs on monocytes and macrophages

Abstract

Mesenchymal stromal cells (MSCs) are multipotent and self-renewing stem cells that have great potential as cell therapy for autoimmune and inflammatory disorders, as well as for other clinical conditions, due to their immunoregulatory and regenerative properties. MSCs modulate the inflammatory milieu by releasing soluble factors and acting through cell-to-cell mechanisms. MSCs switch the classical inflammatory status of monocytes and macrophages towards a non-classical and anti-inflammatory phenotype. This is characterized by an increased secretion of anti-inflammatory

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Feb 26, 2020 · 1 INTRODUCTION. Mesenchymal stromal cells (MSCs) are of clinical interest due to the ease of procurement, multipotency, and immunomodulatory capacity. 1 MSCs hold promise as cell therapy candidates for the treatment of diseases associated with an aberrant immune system. Despite the numerous clinical and preclinical studies conducted with MSC, the therapeutic outcomes are paradoxical and their ...

Cited by: 7

Author: Andreas R. R. Weiss, Olivia Lee, Olivia L...

Publish Year: 2020