

[Immunomodulation by Mesenchymal Stem Cells \(MSCs ...
https://www.frontiersin.org/articles/10.3389/fimmu.2019.01191](https://www.frontiersin.org/articles/10.3389/fimmu.2019.01191)

< **Introduction** Immunomodulation by Livin... Immunomodulation by Apop >

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...

[See more on frontiersin.org](#)

Cited by: 150 Author: Andreas Robert Rudolf Weiss, Marc Hen...
Publish Year: 2019

[Mesenchymal Stem Cell Immunomodulation: Mechanisms ...
https://www.sciencedirect.com/science/article/pii/S0165614720301450](https://www.sciencedirect.com/science/article/pii/S0165614720301450)

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...
Publish Year: 2020

PEOPLE ALSO ASK

How does MSc affect the function of immune effector cells? ▾

How are MSCs used in allogeneic cell therapy? ▾

How are the effects of MSCs communicated to the body? ▾

What is MSC-mediated immunomodulation? ▾

国内版 国际版

Microsoft Bing

Effects of living and metabolically inactive mesenchymal stromal c



ALL IMAGES VIDEOS

12,300 Results Any time ▾

The effect of mesenchymal stromal cell-hyaluronic acid ...

<https://www.semanticscholar.org/paper/The-effect-of-mesenchymal-stromal-cell...>

During the past several years, multipotent **mesenchymal stromal cells** (MSCs) have rapidly moved from in vitro and animal studies into clinical trials as a therapeutic modality potentially applicable to a wide range of disorders. It has been proposed that ex vivo culture-expanded MSCs exert **their** tissue regeneration potential through **their** immunomodulatory and anti-inflammatory properties, and ...

[PDF] The Effect of Mesenchymal Stromal Cell-Hyaluronic Acid ...

<https://www.researchgate.net/profile/Xia-Chen-36...>

The **Effect** of **Mesenchymal Stromal Cell**-Hyaluronic Acid ... MSCs have been extensively studied in the context of **their** interactions with adaptive immune **cells**, such as T and B ... immune **cells** ...

PRIME PubMed | The effect of mesenchymal stromal cell ...

<https://neuro.unboundmedicine.com/medline/citation/...> ▾

During the past several years, multipotent **mesenchymal stromal cells** (MSCs) have rapidly moved from in vitro and animal studies into clinical trials as a therapeutic modality potentially applicable to a wide range of disorders. It has been proposed that ex vivo culture-expanded MSCs exert **their** tissue regeneration potential through **their** immunomodulatory and anti-inflammatory properties, and ...

DNA damage repair response in mesenchymal stromal cells ...

<https://www.sciencedirect.com/science/article/pii/S1568163720302609>

Sep 01, 2020 · **Mesenchymal stromal cells**. **Mesenchymal stromal cells** (MSCs) are characterized by fibroblast-like morphology. these **cells** are derived from bone marrow (BM) and different tissues (Horwitz

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

Match Overview

1	Internet 54 words crawled on 15-Feb-2020 stemcellsjournals.onlinelibrary.wiley.com	1%
2	Crossref 33 words Kopke M, Kallmann P, Pappertz M, Muhammad El-Shahawy F, Engelen D, Jochen Ringe, Carsten Ischke, Sophie Va	1%
3	Internet 30 words crawled on 26-Dec-2020 www.heraldsgenetics.us	<1%
4	Crossref 17 words Daniel J. Kola, Bryan DiCarlo, Robert A. Hetz, Philippa Smith, Charles S. Cox, Scott D. Olson "Differential MSC acti...	<1%
5	Internet 15 words crawled on 15-Jun-2021 stemcellres.biomedcentral.com	<1%
6	Internet 15 words crawled on 07-Oct-2020 www.nature.com	<1%
7	Crossref 14 words Alfonso Erin, Xiang Yang Zhu, Amrutesh S. Puranik, Hui Tang et al. "Mesenchymal stem cell-derived extracellular ve...	<1%
8	Crossref 14 words Jian-Yang, Xue Zou, Pedro A. Jose, Chunyu Zeng "Extrac... ular vesicles: Potential impact on cardiovascular diseases",	<1%

国内版

国际版

Effects of living and metabolically inactive mesenchymal stromal cells



ALL

IMAGES

VIDEOS

12,200 Results

Any time ▾

[PDF] [The Effect of Mesenchymal Stromal Cell-Hyaluronic Acid ...](#)

<https://www.researchgate.net/profile/Xia-Chen-36...>

The Effect of Mesenchymal Stromal Cell-Hyaluronic Acid ... MSCs have been extensively studied in the context of their interactions with adaptive immune cells, such as T and B ... immune cells ...

[The effect of mesenchymal stromal cell-hyaluronic acid ...](#)

<https://www.semanticscholar.org/paper/The-effect-of-mesenchymal-stromal-cell...>

During the past several years, multipotent mesenchymal stromal cells (MSCs) have rapidly moved from in vitro and animal studies into clinical trials as a therapeutic modality potentially applicable to a wide range of disorders. It has been proposed that ex vivo culture-expanded MSCs exert their tissue regeneration potential through their immunomodulatory and anti-inflammatory properties, and ...

PRIME PubMed | [The effect of mesenchymal stromal cell ...](#)

<https://neuro.unboundmedicine.com/medline/citation/...> ▾

During the past several years, multipotent mesenchymal stromal cells (MSCs) have rapidly moved from in vitro and animal studies into clinical trials as a therapeutic modality potentially applicable to a wide range of disorders. It has been proposed that ex vivo culture-expanded MSCs exert their tissue regeneration potential through their immunomodulatory and anti-inflammatory properties, and ...

[PDF] [The Effect of Multipotent Mesenchymal Stromal Cell ...](#)

<https://www.researchgate.net/profile/Tetiana...>

The Effect of Multipotent Mesenchymal Stromal Cell Derivatives on the Properties of Breast Cancer Cells in vitro and in vivo T. Herheliuk a , *, O. Perepelytsina b , L. Ostapchenko a , and M ...

[Differential effects of heat ... - Stem Cells Journals](#)

<https://stemcellsjournals.onlinelibrary.wiley.com/doi/full/10.1002/stem.3165>

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