

1 / 45

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 54893

Manuscript Type: SYSTEMATIC REVIEWS

Mesenchymal stem cell and mesenchymal stem cell-derived extracellular vesicles: Potential roles in rheumatic diseases

Jing-Han Yang, Feng-Xia Liu, Jing-Hua Wang, Min Cheng, Shu-Feng Wang,
Dong-Hua Xu

Abstract

BACKGROUND

Mesenchymal stem cells (MSCs) have been widely investigated in rheumatic disease due to their immunomodulatory and regenerative properties. Recently, mounting studies have implicated the therapeutic potency of MSCs mostly due to the bioactive factors they produce. Extracellular vesicle (EV)

Match Overview

1	Internet 26 words crawled on 12-Jun-2017 www.mdpi.com	<1%
2	Crossref 17 words Miguel Tofiño-Vian, Maria Isabel Guillén, Maria José Alcaraz... "Extracellular vesicles: A new therapeutic strategy for joint c	<1%
3	Crossref 15 words Somayeh Keshtkar, Negar Azarpira, Mohammad Hossein G hahremani. "Mesenchymal stem cell-derived extracellular ...	<1%
4	Internet 15 words crawled on 05-Dec-2019 f6publishing.blob.core.windows.net	<1%
5	Internet 14 words crawled on 17-Dec-2015 office.wjgnet.com	<1%
6	Internet 13 words crawled on 18-Apr-2020 journals.sagepub.com	<1%
7	Internet 13 words crawled on 20-Dec-2019 www.emjreviews.com	<1%
8	Internet 13 words crawled on 20-Mar-2020	<1%



Mesenchymal Stem Cell and Mesenchymal Stem Cell-der



ALL

IMAGES

VIDEOS

28,700 Results

Any time ▾

[Mesenchymal Stem Cell Derived Extracellular Vesicles: A ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/28486431>

May 09, 2017 · **Mesenchymal Stem Cell Derived Extracellular Vesicles: A Role in Hematopoietic Transplantation? ... Mesenchymal stem cells (MSCs)** are a heterogeneous cellular population containing different progenitors able to repair tissues, support hematopoiesis, and modulate immune and inflammatory responses. ... gene therapy) for different **diseases** ...

Cited by: 14

Author: Luciana De Luca, Stefania Trino, Ilaria La...

Publish Year: 2017

[Role of Mesenchymal Stem Cell-Derived Extracellular ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6801704>

3. **Extracellular Vesicles of Stem Cells.** The composition of EVs depends on the type of parental cell and conditions under which **vesicle** release occurs [] and often reflects the specific expression profile and changes in epigenetic regulation of the EV-producing cell [39,40,41]. Previous studies have shown that MSCs do not require direct contact with neighboring cells to induce regeneration [42 ...

Cited by: 1

Author: Sevindzh Kletukhina, Olga Neustroeva, V...

Publish Year: 2019

Mesenchymal stem cell and mesenchymal stem cell-derived extrac



ALL IMAGES VIDEOS

154,000 Results Any time ▾

[Role of Mesenchymal Stem Cell-Derived Extracellular ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6801704>

Sep 27, 2019 · For example, **platelet-derived EVs transfer coagulation** factors and participate in blood clotting , **embryonic stem cell-derived EVs increase** survival and improve expansion of **recipient cells** [9,41,50], **cancer cell-derived EVs** contain oncogenic molecules and contribute to the remodeling of **tumor microenvironment** .

Cited by: 1 **Author:** Sevindzh Kletukhina, Olga Neustroeva, V...

Publish Year: 2019

[Mesenchymal Stromal/stem Cell-derived Extracellular ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5817101>

Jan 01, 2018 · **Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles** Promote Human Cartilage Regeneration In Vitro Lucienne A. Vonk , 3 Sanne F. J. van Dooremalen , 1, 2 Nalan Liv , 1 Judith Klumperman , 1 Paul J. Coffey , 1, 2 Daniël B.F. Saris , 3, 4, 5 and Magdalena J. Lorenowicz 1, 2,

Cited by: 61 **Author:** Lucienne A. Vonk, Sanne F.J. van Doore...

Publish Year: 2018

[Mesenchymal Stem Cell Derived Extracellular Vesicles: A ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/28486431>

May 09, 2017 · **Mesenchymal Stem Cell Derived Extracellular Vesicles: A Role in Hematopoietic Transplantation?** ... **Mesenchymal stem cells** (MSCs) are a heterogeneous cellular population containing different progenitors able to repair tissues, support hematopoiesis, and modulate immune and inflammatory responses. ... with HSCs, may contribute to the ...

Cited by: 14 **Author:** Luciana De Luca, Stefania Trino, Ilaria La...



152,000 Results Any time

Mesenchymal Stromal/stem Cell-derived Extracellular ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5817101>

Jan 01, 2018 · **Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles** Promote Human Cartilage Regeneration In Vitro Lucienne A. Vonk , 3 Sanne F. J. van Dooremalen , 1, 2 Nalan Liv , 1 Judith Klumperman , 1 Paul J. Coffey , 1, 2 Daniël B.F. Saris , 3, 4, 5 and Magdalena J. Lorenowicz 1, 2,

Cited by: 61 **Author:** Lucienne A. Vonk, Sanne F.J. van Doore...

Publish Year: 2018

Mesenchymal Stem Cell-derived Extracellular Vesicles ...

<https://www.sciencedirect.com/science/article/pii/S152500161630106X>

Mesenchymal Stem Cell-derived Extracellular Vesicles: Toward Cell-free Therapeutic Applications. **Mesenchymal stem (stromal) cells (MSCs)** are **multipotent cells** with the ability to differentiate into several **cell types**, thus serving as a **cell reservoir** for regenerative medicine. Much of the current interest in therapeutic application of MSCs to various disease settings can be linked to their ...

Cited by: 354 **Author:** Sweta Rani, Aideen E Ryan, Matthew D ...

Publish Year: 2015

Mesenchymal stem cell-derived extracellular vesicles ...

<https://www.ncbi.nlm.nih.gov/pubmed/29523213>

Mar 09, 2018 · **Mesenchymal stem cell-derived extracellular vesicles:** novel frontiers in regenerative medicine. Keshtkar S(1)(2), Azarpira N(3)(4), Ghahremani MH(1)(5). Author information: (1)Department of Molecular Medicine, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, Iran.

Cited by: 85 **Author:** Somayeh Keshtkar, Somayeh Keshtkar, ...

Publish Year: 2018

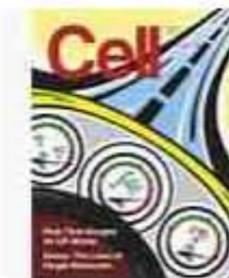
Mesenchymal Stem Cell-Derived Extracellular Vesicles ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4746282>

Feb 09, 2016 · Abstract. **Mesenchymal stem cells (MSCs)** are **adult multipotent stem cells** that are entiate into multiple specialized **cell types** including osteocytes, adipocytes, and

Cell

Scientific Journal



Cell is a peer-reviewed scientific journal publishing research papers across a broad range of disciplines within the life sciences. Areas covered include molecular biology, cell biology, systems biology, stem cells, developmental biology, genetics and geno... +



Wikipedia



Official site

Discipline: Biology

Publisher: Cell Press

Frequency: Bimonthly

Data from: Wikipedia

Wikipedia text under CC-BY-SA license

Suggest an edit