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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 65072

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Potential therapeutic applications of mesenchymal stem cells for the treatment of eye diseases

Mannino G *et al.* MSCs for eye diseases

Giuliana Mannino, Cristina Russo, Anna Longo, Carmelina Daniela Anfuso, Gabriella Lupo, Debora Lo Furno, Rosario Giuffrida, Giovanni Giurdanella

Abstract

Stem cell-based treatments have been extensively explored in the last few decades to develop therapeutic strategies aimed at providing effective alternatives for those human

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Dec 01, 2019 · The **therapeutic potential of MSCs** was studied in a dry **eye syndrome** murine model caused by an intraorbital injection of concanavalin A (Lee et al., 2015). The results showed that periorbitally injected **MSCs** reduced an infiltration with CD4 (+) T-cells and decreased inflammatory cytokine levels in the intraorbital gland and on the eye surface.

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May 11, 2020 · **Mesenchymal stem cells** (MSCs) are derived from a wide range of sources and easily isolated and cultured. MSCs have the capacity for in vitro amplification and self-renewal, low immunogenicity and ...

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The Therapeutic Potential of Mesenchymal Stem Cells in the ...
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Based on these beneficial effects, **mesenchymal stem cells** are considered a promising alternative **therapeutic** approach for effective **treatment** of atherosclerosis. In this review, we summarize the current findings on **potential applications of mesenchymal stem cells** for preventing and regressing atherosclerosis as well as discuss strategies for ...

Author: Vyacheslav Ogay, Aliya Sekenova, Yelen... Publish Year: 2021

Potential application for mesenchymal stem cells in the ...
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Stem cells isolated from various sources have been shown to vary in their differentiation capacity or pluripotentiality. Two groups of **stem cells**, embryonic and adult **stem cells**, may be capable of differentiating into any desired tissue or **cell** type, which offers hope for the development of **therapeutic applications** for a large number of disorders.

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Cited by: 29 Author: C. Randall Harrell, Bojana Simovic Markovi...
Publish Year: 2018

[Potential applications of mesenchymal stem cells in ...
<https://www.ncbi.nlm.nih.gov/pubmed/23342388>

Author information: (1)Tianjin Medical University Eye Center, Tianjin, China. Except for the characteristics of **stem cells**, **mesenchymal stem cells** (MSC) have other distinct functions such as prompting wound healing, **anti-inflammatory** and **immunoregulatory** ability, which has made them one of the most promising candidates for cell therapy.

Author: Xiao-min Zhang, Xiao-rong Li Publish Year: 2012

The therapeutic potential of mesenchymal stem cells. Cell ...
<https://www.ncbi.nlm.nih.gov/pubmed/17665987>

Mesenchymal stem cells (MSCs) are multipotent **cells** with a number of **potential therapeutic applications**. At present, they are being used in a clinical trial for the **treatment** of myocardial infarction and are being studied as a **therapy** for other vascular disorders.

Cited by: 183 Author: Sonia C Picinich, Pravin J Mishra, Prasun J ...
Publish Year: 2007

Therapeutic Potential of Mesenchymal Stem Cells and Their ...
<https://www.hindawi.com/journals/sci/2019/7869130>

Accordingly, several new **therapeutic approaches**, including **stem cell-based therapy**, have been explored for the **glaucoma treatment**. In this review article, we emphasized current knowledge regarding molecular and cellular mechanisms responsible for beneficial effects of **mesenchymal stem cells** (MSCs) and their secretome in the treatment of glaucoma.

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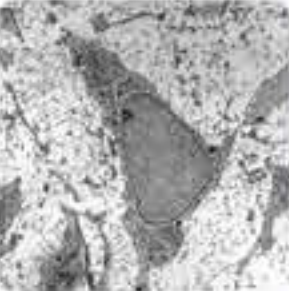
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Mesenchymal stem cells (MSCs) also known as mesenchymal stromal cells or medicinal signaling cells are multipotent stromal cells that can differentiate into a variety of cell types, including osteoblasts (bone cells), chondrocytes (cartilage cells), myocytes (muscle cells) and adipocytes (fat cells which give rise to marrow adipose tissue).

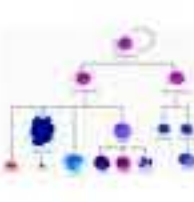
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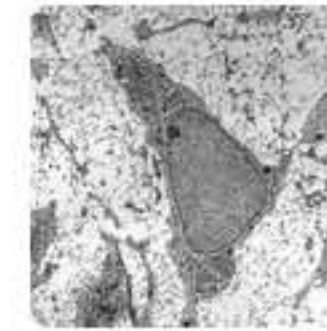
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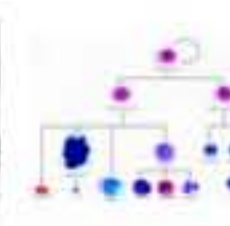
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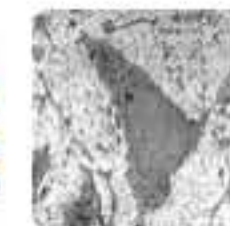
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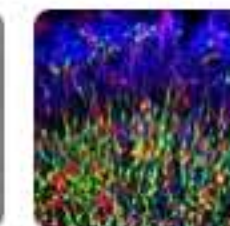
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