

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 65072

Manuscript Type: MINIREVIEWS

Potential therapeutic applications of ³mesenchymal 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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In the last few years **stem cell transplantation** has bee ... At present a wide variety of methods have been proposed to **treat eye disorders**, **drug therapies** are most commonly used. It should be noted that **effective treatment** modalities especially for degeneration of the retina and optic nerve are lacking.

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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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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.

Therapeutic Potential of Mesenchymal Stem Cell-Derived ...

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Mesenchymal stem cells (MSCs) were, due to their immunomodulatory and pro-angiogenic characteristics, extensively explored as new **therapeutic** agents in cell-based **therapy** of uveitis, glaucoma, retinal and ocular surface diseases. Since it was recently revealed that exosomes play an important role in biological functions of MSCs, herewith we summarized current knowledge about the ...

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

[Potential applications of mesenchymal stem cells in ...

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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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Mesenchymal stem cells for the treatment of psoriasis: a ...

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Mesenchymal stem cells (MSCs) have recently been shown to have not only regenerative capabilities but also immunomodulating properties. For this reason, they are currently under investigation in clinical trials for the **treatment** of several autoimmune systemic disorders. Psoriasis is a systemic immun ...

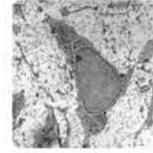
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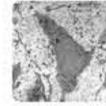


Mesenchymal stem cells (MSCs) also known as mesenchymal stromal cells or medicinal signaling cells are multipotent stromal cells that can differentiate into a variety of cell types, including osteoblasts (bone cells), chondrocytes (cartilage cells), myocytes (muscle cells) and adipocytes (fat cells which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

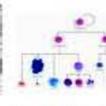
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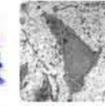
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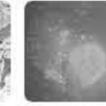
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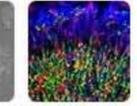
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Induced Pluripotent Stem Cell



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Potential therapeutic application of mesenchymal stem cells in ophthalmology. At present a wide variety of methods have been proposed to treat eye disorders, **drug therapies** are most commonly used. It should be noted that effective treatment modalities especially for degeneration of the retina and optic nerve are lacking.

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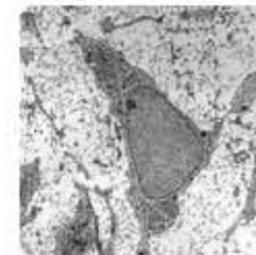
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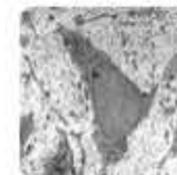


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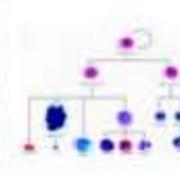
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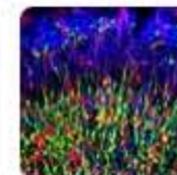
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