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Immunoregulatory mechanisms of mesenchymal stem and ...

<https://www.nature.com/articles/s41581-018-0023-5>

Jun 12, 2018 · Immunoregulatory mechanisms of mesenchymal stem and stromal cells in inflammatory diseases. Interestingly, even nonviable MSCs can exert beneficial effects, with apoptotic MSCs showing immunosuppressive functions in vivo. Because the immunomodulatory capabilities of MSCs are not constitutive but rather are licensed by inflammatory cytokines,...

Cited by: 20

Author: Yufang Shi, Yufang Shi, Yu Wang, Qing ...

Publish Year: 2018

Author: Yufang Shi

Stem Cells and Healing: Impact on Inflammation

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3842880>

Inflammation and the impact of preactivation. In another organ system, the allergic response to inflammatory airway disease was reduced by the use of human iPSCs in a mouse model. 41 A reduction in nasal eosinophilia, levels of Th-2 cytokines, and serum IgE levels were appreciated using human iPSCs in this trial.

Cited by: 68

Author: William J. Ennis, Audrey Sui, Amelia Ba...

Publish Year: 2013

UCSF study explains how chronic inflammation impairs blood ...

<https://blog.cirm.ca.gov/2016/04/26/ucsf-study-explains-how-chronic-inflammation...>

Apr 26, 2016 · UCSF study explains how chronic inflammation impairs blood stem cell function. It involves the activation and mobilization of immune cells that can kill off foreign invaders and help repair damaged tissue. At the heart of the inflammatory response are hematopoietic stem cells (HSCs). These are blood stem cells found in the bone marrow that give rise to all blood cell types.

Mesenchymal Stem Cells Secrete Multiple Cytokines That ...

journals.plos.org/plosone/article?id=10.1371/journal.pone.0035685

Apr 25, 2012 · Introduction. In order to test this hypothesis we monitored the production of cytokines by MSC. We then determined the effect of MSC paracrine factors on cellular migration of MSC, angiogenesis by canine vascular endothelial cells and apoptosis in H9c2 myoblasts.

Published

in: PLOS ONE · 2012

Authors: Robert A Boomsma · Robert A Boomsma · David L Geenen

Affiliation: University of Illinois at Chicago · Trinity Christian College

About:

Chemotaxis · Apoptosis · Phosphorylation · Cell culture · Phosphatidylinositol 3-Kinases

14

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 49334

Manuscript Type: REVIEW

Cytokine interplay among the diseased retina, inflammatory cells and mesenchymal stem cells - a clue to stem cell-based therapy

Holan V *et al.* Cytokine interplay among the stem cell-based therapy

Vladimir Holan, Barbora Hermankova, Magdalena Krulova, Alena Zajicova

Abstract

Retinal degenerative disorders, such as diabetic retinopathy, retinitis pigmentosa, age-related macular degeneration or glaucoma, represent the most common causes of loss of vision and blindness. In spite of intensive research, treatment options to prevent, stop or cure these diseases are limited. Newer therapeutic approaches are offered by stem cell-based therapy. To date, various types of stem cells have been evaluated in a range of models. Among them, mesenchymal stem/stromal cells (MSCs) derived from bone

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Mesenchymal stem cells in the treatment of inflammatory ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4404391>

Apr 26, 2015 · Multipotent mesenchymal stromal cells [also known as mesenchymal stem cells (MSCs)] are currently being studied as a cell-based treatment for inflammatory disorders. Experimental animal models of human immune-mediated diseases have been instrumental in establishing their immunosuppressive properties.

Cited by: 34

Author: Matthew W Klinker, Cheng-Hong Wei

Publish Year: 2015

Cytokine Cocktails & Stem Cell Factories (Part 3 of a ...

barefacedtruth.com/2012/07/03/stem-cell-factories-custom-cytokine-cocktails-part-3 ▾

The type of stem cell most often used is the mesenchymal stem cell from the bone marrow compartment. There is a population of cells there that act as our body's 911 system, send cells to respond to emergencies, by supplementing the local tissue cells and tissue-resident stem cells. These specialized bone marrow stem cells (we call them BM-MSK ...

Perspectives of Stem Cell-Based Therapy for Age-Related ...

<https://journals.sagepub.com/doi/full/10.1177/0963689717721227>

Nov 08, 2017 · In this respect, stem cell-based therapy holds great promise. 1,2. Among various stem cell types that have been suggested or already tested for treatment of retinal diseases, the mesenchymal stem cells (MSCs) turned out to be the most promising cells.

Cited by: 3

Author: Vladimir Holan, Barbora Hermankova, Jan...

Publish Year: 2017

Concise Review: Mesenchymal Stem Cell Treatment of the ...

<https://stemcells.journals.onlinelibrary.wiley.com/doi/full/10.1002/stem.556>

Nov 09, 2010 · Among stem cells, MSCs have several advantages for therapeutic use such as ability to migrate to the sites of tissue injury, strong immunosuppressive effects [6-8], better safety after infusion of allogeneic MSCs [22, 23], and lack of ethical issues, such as those related to the application of human embryonic stem cells. However, there are ...

Cited by: 233

Author: Vladislav Volarevic, Nebojsa N. Arsenijevi...

Publish Year: 2011