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Author: Baldur Kristjánsson, Sittisak Honsawek

Publish Year: 2017

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www.ncbi.nlm.nih.gov › ... › [Stem Cell Res Ther](#) › v.3(4); 2012

Jul 09, 2012 · **Mesenchymal stem cells for cartilage repair in osteoarthritis**. ... Possible mechanisms operative in **cartilage regeneration** by **mesenchymal stem cells**. The anti-inflammatory and immunosuppressive properties of bone marrow stromal **cells** (BMSCs) ensure that these **cells** can reduce inflammation in the knee. ... Preclinical efficacy of ...

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Mesenchymal stem cell therapy in the treatment of ...

www.ncbi.nlm.nih.gov › ... › [BMC Musculoskelet Disord](#) › v.17; 2016

May 26, 2016 · A growing interest in the area of regenerative medicine, led by an improved understanding of the role of **mesenchymal stem cells** in tissue homeostasis and repair, has seen recent

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46623

Manuscript Type: REVIEW

Mesenchymal stem cells for cartilage regeneration in dogs

Akari Sasaki, Mitsuru Mizuno, Manabu Mochizuki, Ichiro Sekiya

Abstract

Articular cartilage damage and osteoarthritis (OA) are common orthopedic diseases in both humans and dogs. Once damaged, the articular cartilage seldom undergoes spontaneous repair because of its avascular, aneural, and alymphatic state, and the damage progresses to a chronic and painful situation.

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Over the last years, **multipotent stromal** cells have been used in efforts to treat OA. **Mesenchymal stem/progenitor** cells (MSCs) are **stromal** cells that can differentiate into bone, fat, and cartilage cells. They reside within **bone marrow** and **fat**.

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Stem Cell Cartilage Regeneration - What You Need to Know

<https://www.regenexx.com/blog/stem-cell-cartilage-regeneration> ▾

Can **Stem Cells Regenerate Cartilage**? **Mesenchymal stem cells** (MSCs) can naturally transform into many tissues including **bone**, **cartilage**, and fibrous tissue. There are hundreds of studies of **animal** models where these cells have been shown to help **repair cartilage**.

Mesenchymal stem cells for cartilage repair in osteoarthritis

www.ncbi.nlm.nih.gov > ... > [Stem Cell Res Ther](#) > v.3(4); 2012

Jul 09, 2012 · Bone marrow **stromal cell-based therapy** for **cartilage repair**. It is noteworthy that a clinical study conducted with **adipose tissue-derived stem cells** along with a low dose of **dexamethasone** also showed encouraging results in regard to **cartilage regeneration** and reduced pain score in patients with OA [48].

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Allogeneic Mesenchymal Stem Cells Stimulate Cartilage ...

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

Mesenchymal stem cells (**MSCs**, also known as multipotent **mesenchymal stromal cells**) are a nonhematopoietic adult stem cell population that are present in various tissues such as **bone marrow**, adipose **tissue**, **synovial membrane**, and others.

Cited by: 61 Author: Tommy S. de Windt, Lucienne A. Vonk, I...
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Mesenchymal stem cells for cartilage regeneration in ...

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Cartilage repair by mesenchymal stem cells: Clinical trial ...

<https://www.sciencedirect.com/science/article/pii/S2214031X17300049>

Fetal tissue-derived stem cells, particularly **fetal cartilage-** derived **stem cells** have shown higher chondrogenic activity [64]. Due to the higher **plastic** and proliferation ability of **fetal stem cells** as compared to their adult counterpart, **fetal stem cells** may be a better choice for tissue engineering.

Cited by: 18 Author: Wayne Yuk-wai Lee, Bin Wang
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