

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 63802

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Chondrogenic potential of mesenchymal stem cells from horses using a magnetic 3D cell culture system

Fülber J *et al.* Chondrogenic potential of horse MSCs

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Focal cartilage injury occurs commonly and often precipitates OA. **Mesenchymal stem cells** (MSCs) may be useful for repairing cartilage lesions, thereby preventing joint degeneration. Although MSCs isolated from **bone marrow** have been shown to have **chondrogenic potential**, **synovial** membrane-derived MSCs (SM-MSCs) may have superior **chondrogenic** abilities due to a common progenitor **cell** between ...

Cited by: 6**Author:** Alexis L Gale, Renata L Linardi, George Mc...**Publish Year:** 2019

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Jan 18, 2017 · **Mesenchymal stem cells** (MSCs) have been demonstrated to be useful for cartilage **tissue** regeneration. **Bone marrow** (BM) and **synovial fluid** (SF) are promising sources for MSCs to be used in cartilage regeneration. In order to improve the clinical outcomes, it is recommended that prior to clinical use, the cellular properties and, specifically, their **chondrogenic potential** must be investigated.

Cited by: 11**Author:** Mohammed Zayed, Christopher Caniglia, N...**Publish Year:** 2017

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Jan 01, 2016 · **Bone marrow**-derived **mesenchymal stem cells** (BMMSCs) and **synovial fluid**-derived **mesenchymal stem cells** (SFMSCs) were induced to differentiate **using** lineage-specific media. (A,B) Oil Red O staining of **cells** cultured for 7 days in undifferentiated and ...

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Chondrogenic differentiation potential of adult and fetal ...

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The hypothesis tested was that **cells** derived from interzone tissue have a **chondrogenic potential** that exceeds that of adult bone marrow-derived and adipose-derived **mesenchymal cell** isolates. Study desig...

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Conclusions

- Mesenchymal stem cells are in trials for
 - Heart Disease
 - Liver Failure
 - GVHD
 - Multiple Sclerosis
 - Bone Fractures

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Cited by: 23 **Author:** Mélanie Desancé, Romain Contentin, Lélia ...

Publish Year: 2018

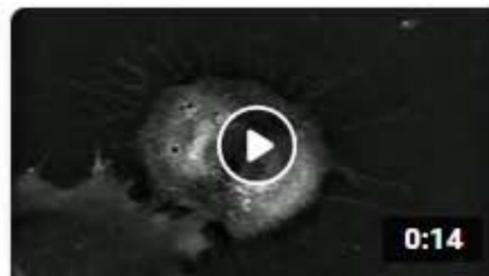
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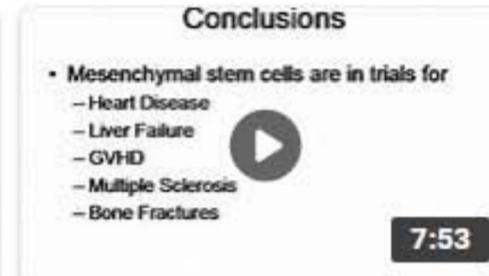
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