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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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<https://www.frontiersin.org/articles/10.3389/fvets.2019.00178> ▾

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 ...

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Author: Alexis L Gale, Renata L Linardi, George Mc...

Publish Year: 2019

Donor-Matched Comparison of Chondrogenic Potential of ...

<https://www.frontiersin.org/articles/10.3389/fvets.2016.00121> ▾

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

Donor-Matched Comparison of Chondrogenic Potential of ...

europepmc.org/abstract/MED/28149840 ▾

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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Author: Mohammed Zayed, Christopher Caniglia, N...

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Respective stemness and chondrogenic potential of ...

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-020-01786-5> ▾

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Comparison of the Chondrogenic Differentiation Potential ...

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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**...

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Author: Alexis L Gale, Renata L Linardi, George Mc...

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Chondrogenic differentiation potential of adult and fetal ...

<https://pubmed.ncbi.nlm.nih.gov/30801754>

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 design...

Videos of Chondrogenic Potential Of Mesenchymal Stem Cells Fro...

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mesenchymal stem cell—



Mitosis in Mesenchymal

Conclusions

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

7:53

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Chondrogenic Differentiation of Defined Equine **Mesenchymal Stem Cells** Derived from Umbilical Cord Blood for **Use** in Cartilage Repair Therapy Int J Mol Sci . 2018 Feb 10;19(2):537. doi:...

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

Publish Year: 2018

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 <p>mesenchymal stem cell— Shijiazhuang Kidney Disease Hospital</p> <p>Sep 12, 2014 youku › 黑侠-剑客</p>	 <p>Mitosis in Mesenchymal Stem Cells using Nanolive imaging</p> <p>309 views · Sep 10, 2019 Vimeo › Nanolive</p>	<p>Conclusions</p> <ul style="list-style-type: none"> • Mesenchymal stem cells are in trials for <ul style="list-style-type: none"> — Heart Disease — Liver Failure — GVHD — Multiple Sclerosis — Bone Fractures <p>Mesenchymal Stem Cell Trials</p> <p>28 views · Sep 3, 2007 Vimeo › cellmedicine</p>
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Chondrogenic Differentiation of Defined Equine Mesenchymal ...

<https://www.ncbi.nlm.nih.gov/pubmed/29439436>

Feb 10, 2018 · **Chondrogenic** Differentiation of Defined Equine **Mesenchymal Stem Cells** Derived from Umbilical Cord Blood for **Use** in Cartilage Repair Therapy. ... (3D) culture approach with the chondrogeni...

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

Publish Year: 2018

Respective stemness and chondrogenic potential of ...

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