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**Name of Journal:** *World Journal of Stem Cells*

**Manuscript NO:** 46607

**Manuscript Type:** REVIEW

**Human umbilical cord mesenchymal stem cells ameliorate liver fibrosis *in vitro* and *in vivo*: From biological characteristics to therapeutic mechanisms**

Yin F *et al.* Mesenchymal stem cells and liver fibrosis

Fei Yin, Wen-Ying Wang, Wen-Hua Jiang

Fei Yin, Wen-Ying Wang, Wen-Hua Jiang, Department of Histology and Embryology, Basic Medical College of Jilin University, Changchun 130021, Jilin Province, China



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Mar 15, 2013 · Introduction. The multipotent differentiation ability of **mesenchymal stem cells** (MSCs) has been reported and it has attracted a lot of attention as a reliable cell source for **liver therapy** [ 9 – 11 ]. Similar to the MSCs from **bone marrow**, **human umbilical cord-MSCs** (hucMSCs) have a high self-renewal ability and low immunogenicity,...

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Acute respiratory distress syndrome is characterized by loss of lung tissue as a result of inflammation and **fibrosis**. Augmenting tissue repair by the use of **mesenchymal stem cells** may be an important advance in treating this condition. We evaluated the role of term **human umbilical cord cells** derived ...

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## Mesenchymal stem cells from human umbilical cords ...

<https://onlinelibrary.wiley.com/doi/10.1111/j.1478-3231.2008.01855.x>

Aims: To investigate **human umbilical cord**-derived **mesenchymal stem cells** (hUCMSCs) for use in the reversal of mouse hepatic injury. Methods: **Human umbilical cord**-derived **mesenchymal stem cells**, characterized by flow cytometry, were transplanted into carbon tetrachloride (CCI 4)-injured mice, and then followed for determination of localization and differentiation.

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## Liver-derived human mesenchymal stem cells: a novel ...

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-016-0330-3> ▾

May 12, 2016 · **Mesenchymal stem cells** (MSCs) represent an attractive cell type for research and therapy due to their ability to proliferate, differentiate, modulate immune reactions, and secrete trophic factors. MSCs exist in a multitude of tissues, including bone marrow, **umbilical cord**, and adipose tissues. Moreover, MSCs have recently been isolated from the **liver**.

**Cited by:** 17**Author:** Yini Wang, Xiaopeng Yu, Ermei Chen, La...**Publish Year:** 2016

## Exosomes Derived from Human Umbilical Cord ...

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<https://www.liebertpub.com/doi/10.1089/scd.2012.0395>

Sep 24, 2012 · Taken together, these results suggest that hucMSC-Ex could ameliorate CCI 4-induced liver fibrosis by inhibiting EMT and protecting hepatocytes. This provides a novel approach for the treatment of fibrotic liver disease. ... Exosomes from Human Umbilical Cord Mesenchymal Stem Cells Reduce Damage from Oxidative Stress and the Epithelial ...

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### Mesenchymal stem cells from human umbilical cords ...

<https://onlinelibrary.wiley.com/doi/10.1111/j.1478-3231.2008.01855.x>

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Author: Yongmin Yan, Wenrong Xu, Hui Qian, Yu...

Publish Year: 2009

### Tonsil-derived Mesenchymal Stem Cells Ameliorate CCl4 ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4342568>

Feb 27, 2015 · We used human palatine tonsil as a novel source of mesenchymal stem cells (T-MSCs) and examined their ability to differentiate into hepatocyte-like cells in vivo and in vitro. Carbon tetrachloride (CCI 4) mouse model was used to investigate the ability of T-MSCs to home to the site of liver ...

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Author: Minhwa Park, Yu-Hee Kim, So-Youn Woo...

Publish Year: 2015

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