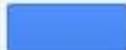


The effect of human umbilical cord-derived Mesenchymal stem cells on liver fibrosis



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26 Apr 2010 ... MSC can be isolated from bone marrow, umbilical cord blood, ... MSCs are known to have immune suppressive action on ... In addition to this chondrogenic differentiation potential of MSCs, recent ... Cirrhosis is a consequence of chronic hepatic injury characterized by replacement of liver tissue by fibrosis ...

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[www.sciencedirect.com/science/article/pii/S1873506108000597](http://www.sciencedirect.com/science/article/pii/S1873506108000597)

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 34090

Manuscript Type: ORIGINAL ARTICLE

### Basic Study

Effect of human umbilical cord-derived Mesenchymal stem cells on liver fibrosis and hepatic differentiation potential *in vivo*

Guo-Zun Zhang, Hui-Cong Sun, Li-Bo Zheng, Jin-Bo Guo, Xiao-Lan Zhang

### Abstract

#### AIM

To investigate the therapeutic effect and hepatic differentiation potential of human umbilical cord-derived mesenchymal stem cells (hUC-MSCs).

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2015年1月21日 - Keywords: Liver fibrosis, Cirrhosis, Mesenchymal stem cells, Cell ..... Cell-based therapy has been proposed as a less invasive potential .... Moreover, the in vivo hepatic differentiation of MSCs has been ... Li et al[126] demonstrated that transplantation of exosomes derived from human umbilical cord MSCs ...

### Mesenchymal Stem Cells: Current Clinical Applications and ...

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**in vitro hepatic differentiation potential of mesenchymal stem ... differentiation potential and therapeutic effect of cord blood ... markers, liver fibrosis and engraftment of cBMSCs were ....** Figure 2. detection of **human-derived cells** by immunohistochemistry of liver section ... MSCs from the bone marrow (8,15,23), **umbilical cord**.

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2016年5月12日 - Compared with other **MSC** types, **liver-derived human MSCs (LHMSCs) ...** Cell therapy, **Hepatic differentiation, Liver-derived mesenchymal stem cells ...** Cell-based therapy has been proposed as a **potential** alternative to OLT [2-4]. ... tissues, including the lung, **umbilical cord**, and adipose tissue [14, 15].