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Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 31809

Manuscript Type: ORIGINAL ARTICLE

*Basic Study*

**Effects of HO-1/BM MSCs on microcirculation and energy metabolism following liver transplantation**

Liu Yang, Zhong-Yang Shen, Rao-Rao Wang, Ming-Li Yin, Wei-Ping Zheng, Bin Wu, Tao Liu, Hong-Li Song

### Abstract

#### AIM

To explore the effects of heme oxygenase-1 (HO-1)-modified bone marrow mesenchymal stem cells (BM MSCs) on the microcirculation and energy metabolism of hepatic sinusoids following reduced-size liver transplantation

### Match Overview

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In **liver transplantation**, donor age is a strong risk factor of graft failure (8). ... **Consequences** of steatosis on **microcirculatory** flow, **energy** homeostasis and ... **Following** ischemia and reperfusion, older organs generate higher levels of ROS (47), ... During acute injury and transplantation of older kidneys, **HO-1** induction is ...

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9 Oct 2014 ... In this review, the organ-protective **effects** of resveratrol in oxidative .... and nitric oxide, are produced during abnormal **metabolic** reactions ... and diminished rat spleen and ileum oxidative damage **after hepatic** I/R [107]. ... **HO-1 hepatic** mRNA expression and decreased **hepatic** neutrophil recruitment [122].

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29 May 2015 ... Adipose tissue has long been considered an **energy** storage and .... **metabolism** ( Figure 1).9 These pathways can be altered by an ..... **After 1** month, improved

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