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Several studies have demonstrated that human umbilical cord blood-derived mesenchymal stem cells can promote neural regeneration following **brain injury**. However, the therapeutic effects of human umbilical cord blood-derived mesenchymal stem cells in guiding peripheral nerve regeneration remain poorly understood.

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Sep 15, 2012 · Several studies have demonstrated that **human umbilical cord blood-derived mesenchymal stem cells** can promote **neural regeneration** following **brain injury**. However, the therapeutic effects of **human umbilical cord blood-derived mesenchymal stem cells** in guiding **peripheral nerve regeneration** remain poorly understood.

Cited by: 10 **Author:** Mi-Ae Sung, Hun Jong Jung, Jung-Woo Le...

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In the present study, **human umbilical cord-derived mesenchymal stem cells (hUCMSCs)**, which are easily accessible and more **proliferative** than **Schwann cells**, were used to prepare an **extracellular matrix**. We identified the morphology and function of **hUCMSCs** and investigated their effect on **peripheral nerve regeneration**.

Cited by: 5 **Author:** Bo Xiao, Feng Rao, Zhi-yuan Guo, Xun Su...

Publish Year: 2016

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 53364

Manuscript type: SYSTEMATIC REVIEWS

Human umbilical cord derived mesenchymal stem cells in peripheral nerve regeneration

Bojanic C *et al.* UCMSCs in nerve regeneration

Christine Bojanic, Kendrick To, Bridget Zhang, Christopher Mak, Wasim S Khan

Abstract

BACKGROUND

Peripheral nerve injury can occur as a result of trauma or disease and carries significant morbidity including sensory and motor loss. The body has limited

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Publish Year: 2016

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Author: Mi-Ae Sung, Hun Jong Jung, Jung-Woo L...

Publish Year: 2012

位置: 8600 Rockville Pike, Bethesda, MD

2012-9-15 · However, the therapeutic effects of human umbilical cord blood-derived mesenchymal stem cells in guiding peripheral nerve regeneration remain poorly understood. This study was designed to investigate the effects of human umbilical cord blood-derived mesenchymal stem cells on neural regeneration using a rat sciatic nerve crush injury model.



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