

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 55521

Manuscript Type: BASIC STUDY

Spinal cord injury regeneration using autologous bone marrow derived neurocytes and rat embryonic stem cells: A comparative study in rats.

Sadat-Ali M *et al.* SCI regeneration using ABMDN and rESC

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Bone marrow-derived mesenchymal stem cells (BMSCs) 1 are regarded as a source of **autologous stem cells** for cell replacement therapy in degenerative disorders and traumatic **injury** [4].

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Jul 02, 2018 · Interactions between Skeletal Muscle Myoblasts and their Extracellular Matrix Revealed by a Serum Free Culture System. PubMed. Chaturvedi, Vishal; Dye, Danielle E; Kinnear, Beverl

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Jan 01, 2018 · Cloning mice and ES cells by nuclear transfer from somatic **stem cells** and fully differentiated cells. PubMed. Wang, Zhongde. 2011-01-01. Cloning animals by nuclear transfer (NT) h

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The Efficacy and Safety of Mesenchymal Stem Cell ...

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Oct 26, 2018 · Introduction. **Spinal cord injury** (SCI) is a devastating disease, with a high rate of disability. Patients with SCI always suffer from paralysis, locomotor and sensory dysfunction, urinary incontinence or gastrointestinal dysfunction 1,2. The incidence of SCI is 27–83 per million in the US and 10–30 per million in Europe 3,4, which poses a great burden on society.

Cited by: 16

Author: Panfeng Xu, Xianliang Yang

Publish Year: 2019

Mesenchymal stem cells in the treatment of spinal cord ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3999770>

Apr 26, 2014 · Keywords: **Spinal cord injury**, Mesenchymal **stem cells**, Bone marrow stromal cells, Umbilical **cord derived** mesenchymal **stem cells**, Adipose tissue **derived** mesenchymal **stem cells** Core

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Bone marrow-derived stem cells can differentiate into glial **cells** or neurons which may improve the effects of regenerative therapy in **spinal cord injury** [24, 35]. The best therapeutic outcomes can be achieved with optimal dosage, timing and optimal administration route [42].

Cited by: 8**Author:** Omer Besalti, Zeynep Aktas, Pinar Can, Eyl...**Publish Year:** 2016

[Treatment of spinal cord injury with mesenchymal stem ...](https://cellandbioscience.biomedcentral.com/...)

<https://cellandbioscience.biomedcentral.com/...> ▾

Sep 22, 2020 · **Spinal cord injury** (SCI) is the damage to the **spinal cord** that can lead to temporary or permanent loss of function due to **injury** to the nerve. The SCI patients are often associated with poor quality of life. This review discusses the current status of mesenchymal **stem** cell (MSC) therapy for SCI, criteria to considering for the application of MSC therapy and novel biological therapies that can ...

Author: Ling Ling Liao, Qi Hao Looi, Wui Chuen ... **Publish Year:** 2020

[Stem cells for spinal cord regeneration: Current status](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3019362)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3019362>

Role of Cytokines and Inflammatory Mediators. A **study** carried out on **rats** to note the changes in the microenvironment of the injured **spinal cord** revealed that during the acute phase of **injury**, expression of mRNA coding proinflammatory cytokines like interleukins (IL)-1a, IL-1b, IL-6 and tumor necrosis factor-a (TNF-a), increased 6 to 12 h after the **injury** and peaked at four days.

Cited by: 22**Author:** Zain A. Sobani, Syed A. Quadri, S. Ather En...**Publish Year:** 2010

[A comparison of autologous and allogenic bone marrow ...](https://www.sciencedirect.com/science/article/pii/S0022510X09006315)

<https://www.sciencedirect.com/science/article/pii/S0022510X09006315>

Oct 15, 2009 · The purpose of this **study** is to compare the therapeutic effects between **autologous** and allogenic **bone-marrow-derived** mesenchymal **stem** cell (MSC) transplantation in experimentally-induced **spinal cord injury** (SCI) of dogs. Thirty adult Beagle dogs (control group = 10, **autologous** group = 10, and allogenic group = 10) were used in this **study**.

Cited by: 191**Author:** Dong-In Jung, Jeongim Ha, Byeong-Teck K