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## Astrocyte reactivity and astrogliosis after spinal cord ...

<https://www.ncbi.nlm.nih.gov/pubmed/29054466>

After traumatic injuries of the central nervous system (CNS), including spinal cord injury (SCI), astrocytes surrounding the lesion become reactive and typically undergo hypertrophy and ...

Cited by: 28

Author: Seiji Okada, Masamitsu Hara, Kazu Kob...

Publish Year: 2018

## Repair of spinal cord injury by inhibition of astrocyte ...

<https://www.sciencedirect.com/science/article/pii/S0142961214004402>

Repair of spinal cord injury by inhibition of astrocyte growth and inflammatory factor synthesis through local delivery of flavopiridol in PLGA nanoparticles In vivo study demonstrated that flavopiridol NPs decreased cell-cycle activation, inflammatory expression and glial scarring, and facilitated neuronal survival and regeneration.

Cited by: 33

Author: Hao Ren, Min Han, Jing Zhou, Ze-Feng Z...

Publish Year: 2014

## Building bridges with astrocytes for spinal cord repair

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1561530>

Simultaneous suppression of glial scarring and a general enhancement of axonal outgrowth has now been accomplished in an adult rat model of spinal cord transection. Transplantation of a novel astrocyte cell type derived from glial-restricted precursors in vitro raise the eventual possibility of cellular therapy for spinal cord injury.

Cited by: 6

Author: Robert H Miller

Publish Year: 2006

## Follow Me: Astrocytes in Spinal Cord Repair | Brain Blogger

[www.brainblogger.com/2017/09/09/follow-me-astrocytes-in-spinal-cord-repair](http://www.brainblogger.com/2017/09/09/follow-me-astrocytes-in-spinal-cord-repair) ▾

Sep 09, 2017 · Interestingly, long-distance regeneration of axons is not the only mechanism through which normal spinal cord function can be restored. Injury is known to induce plasticity by several mechanisms including unmasking inactive spared pathways, compensatory collateral sprouting from the intact pathways, or an increase in receptor number due to denervation hypersensitivity..





14  
Name of Journal: World Journal of Clinical Cases  
Manuscript NO: 52855  
Manuscript Type: ORIGINAL ARTICLE

Clinical and Translational Research  
Repair mechanism of astrocytes and non-astrocytes in spinal cord injury

Liu XY *et al.* Repair mechanism in SCI

Xiang-Yun Liu, Jian-Wei Guo, Jian-Qiang Kou, Yuan-Liang Sun, Xiu-Jun Zheng

Abstract  
BACKGROUND

Spinal cord injury (SCI) is a destructive disease that incurs huge personal and social costs, and there is no effective treatment for it. Although the pathogenesis and treatment mechanism of SCI has always been a strong scientific focus, the pathogenesis of it is still under investigation.

AIM  
To explore the key genes based on the modularization of in-depth analysis, so as to identify the repair mechanism of astrocytes and non-astrocytes in SCI.

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## Astrocytes | Facts, Functions, Structure, Types & Repair

<https://human-memory.net/astrocytes> ▾

Oct 10, 2019 · It also regulates the movement of small molecules between the meninges and the parenchyma of the brain and **spinal cord**. **Repair: Astrocytes** are also thought to play a role in the **repair** of the neuronal tissues in CNS. When **injury** occurs to the nervous tissue in the brain or **spinal cord**, **astrocytes** migrate to that place and form glial scar.

## Repair of spinal cord injury by inhibition of astrocyte ...

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The **cell-cycle inhibitor flavopiridol** has been shown to improve **recovery** from **spinal cord injury** in animal models. However, the systemic dose of flavopiridol has **side-effects** and the **mechanism** of action is not clear. This study aimed to develop a strategy for the local delivery of flavopiridol and investigate its **mechanisms** of action.

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## Spinal cord injury repair requires scars | National ...

<https://www.nih.gov/.../nih-research-matters/spinal-cord-injury-repair-requires-scars> ▾

If this communication pathway can't be **repaired**, **spinal cord damage** can cause serious disability, including paralysis. When the **spinal cord** is damaged, specialized **cells** head to the **injury** site and form