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**Name of Journal:** *World Journal of Experimental Medicine*

**Manuscript NO:** 34117

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**Construction of Biomimetic Spinal Cord by the Combination of Basic Fibroblast Growth Factor Modified Thermosensitive Hydrogel and Acellular Spinal Cord Scaffold: New approach to Repair Spinal Cord Injuries**

**Yang Liu, Qian Li, Bin Zhang, De-Xiang Ban, Shi-Qing Feng**

#### **Abstract**

The incidence of spinal cord injury (SCI) has been gradually increasing, and the treatment has troubled the medical field all the time. Primary and secondary injuries ultimately lead to nerve impulse conduction block.

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## Hydrogels and Cell Based Therapies in Spinal Cord Injury Regeneration

<https://www.hindawi.com/journals/sci/2015/948040/> ▾ 翻译此页

作者: RC Assunção-Silva - 2015 - 被引用次数: 24 - 相关文章

2014年12月14日 - **Spinal cord injury** (SCI) is a central nervous system- (CNS-) related disorder for ... as single therapeutic **approaches** for SCI **repair** will be discussed in this review. .... have been in the forefront of **new** strategies to **approach** SCI treatment. .... The association of collagen **scaffolds** to **basic FGF** also induced ...

## Biomaterial Design Strategies for the Treatment of Spinal Cord Injuries

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: KS Straley - 2010 - 被引用次数: 165 - 相关文章

This manuscript presents a comprehensive review of biomaterial-**scaffold** design ... Upon **spinal cord injury**, the native **fibroblasts**, neuroglia, and endothelial cells create ... **growth factors**, or cells must be taken in order to effectively **repair spinal cord** .... **Constructing** nerve guidance channels with electrically active materials ...

## Advances in regenerative therapies for spinal cord injury: a ...

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: M Tsintou - 2015 - 被引用次数: 23 - 相关文章

**Spinal cord injury** (SCI) is a highly debilitating disorder with no effective therapeutic plan ... Due to the


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### Repair of spinal cord injury by implantation of bFGF-incorporated ...

<https://www.ncbi.nlm.nih.gov/pubmed/25761585> - 翻译此页

作者 : B Chen - 2015 - 被引用次数 : 18 - 相关文章

2015年3月12日 - Repair of spinal cord injury by implantation of bFGF-incorporated ... hydrogel incorporated with basic fibroblast growth factor (bFGF) into the ... Prior to implantation, the combined hydrogel was surrounded by an acellular vascular matrix. ... HEMA-MOETACL hydrogel is a promising scaffold for intrathecal, ...

### Biomaterial Design Strategies for the Treatment of Spinal Cord Injuries

[https://www.ncbi.nlm.nih.gov/NCBI/Literature/PubMedCentral\(PMC\)](https://www.ncbi.nlm.nih.gov/NCBI/Literature/PubMedCentral(PMC)) - 翻译此页

作者 : KS Straley - 2010 - 被引用次数 : 176 - 相关文章

This manuscript presents a comprehensive review of biomaterial-scaffold design ... Upon spinal cord injury, the native fibroblasts, neuroglia, and endothelial cells create ... growth factors, or cells must be taken in order to effectively repair spinal cord .... Constructing nerve guidance channels with electrically active materials ...

### Thermo-sensitive hydrogels combined with decellularised matrix ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5138609/> - 翻译此页

作者 : HL Xu - 2016 - 被引用次数 : 1 - 相关文章

2016年12月6日 - In this study, an acellular spinal cord scaffold (ASC) was ... into a heparin modified poloxamer (HP) solution to prepare atemperature-sensitive hydrogel (bFGF-ASC-HP). ... Traumatic spinal cord injury (SCI) is a devastating condition ... Basic fibroblast growth factor (bFGF) was ordered from Gelusite Biology ...

### A Thermosensitive Heparin-Poloxamer Hydrogel Bridges aFGF to ...

[pubs.acs.org/doi/full/10.1021/acsami.6b13155?src=recsys](https://pubs.acs.org/doi/full/10.1021/acsami.6b13155?src=recsys) - 翻译此页

2017年2月9日 - Spinal cord injury (SCI) is a crippling and severely disabling disease ... Acidic fibroblast



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### New approach to spinal cord, brain injury researchJeff Twiss and ...

[www.sc.edu/uofsc/posts/2015/07\\_twiss\\_kalinski\\_axons.php](http://www.sc.edu/uofsc/posts/2015/07_twiss_kalinski_axons.php) ▼ 翻译此页

2015年7月14日 - New approach to spinal cord, brain injury research ... an innate repair mechanism in central nervous system axons that might be harnessed to ...

缺少字词: multifunctional biomimetic

### Advances in regenerative therapies for spinal cord injury: a ...

[https://www.ncbi.nlm.nih.gov/NCBI/Literature/PubMed Central \(PMC\)](https://www.ncbi.nlm.nih.gov/NCBI/Literature/PubMedCentral(PMC)) - 翻译此页

作者: M Tsintou - 2015 - 被引用次数: 30 - 相关文章

Spinal cord injury (SCI) is a highly debilitating disorder with no effective ..... for SCI repair, even though gel patterning in a relatively new approach in this area of ...

### Discovery offers new hope to repair spinal cord injuries: Scientists ...

<https://www.sciencedaily.com/releases/2017/04/170424152544.htm> ▼ 翻译此页

2017年4月24日 - Discovery offers new hope to repair spinal cord injuries ... However, these approaches either do not attempt or cannot reliably produce the ...

缺少字词: multifunctional biomimetic

### Full Text - Journal of Neurosurgery

[thejns.org/doi/full/10.3171/jns.1998.89.5.0699](http://thejns.org/doi/full/10.3171/jns.1998.89.5.0699) ▼ 翻译此页

作者: MB Bracken - 1998 - 被引用次数: 505 - 相关文章

In the first National Acute Spinal Cord Injury Study (NASCIS I), ..... (2016) B-Cell Depletion with CD20 Antibodies as New Approach in the .... Biomimetic Materials: Polymeric Substrates for Axonal Regeneration. ... Translating mechanisms of neuroprotection, regeneration, and repair to treatment of spinal cord injury.

### Methylprednisolone or tirilazad mesylate administration after acute ...