

Accepted Manuscript

A collagen microchannel scaffold carrying paclitaxel-liposomes induces neuronal differentiation of neural stem cells through Wnt/ β -catenin signaling for spinal cord injury repair

Xiaoran Li, Caixia Fan, Zhifeng Xiao, Yannan Zhao, Haimin Zhang, Jie Sun, Yan Zhuang, Xianming Wu, Jiajia Shi, Yanyan Chen, Jianwu Dai

PII: S0142-9612(18)30591-X

DOI: [10.1016/j.biomaterials.2018.08.037](https://doi.org/10.1016/j.biomaterials.2018.08.037)

Reference: JBMT 18843

To appear in: *Biomaterials*

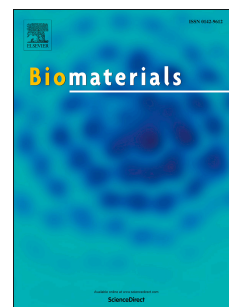
Received Date: 6 January 2018

Revised Date: 9 August 2018

Accepted Date: 20 August 2018

Please cite this article as: Li X, Fan C, Xiao Z, Zhao Y, Zhang H, Sun J, Zhuang Y, Wu X, Shi J, Chen Y, Dai J, A collagen microchannel scaffold carrying paclitaxel-liposomes induces neuronal differentiation of neural stem cells through Wnt/ β -catenin signaling for spinal cord injury repair, *Biomaterials* (2018), doi: [10.1016/j.biomaterials.2018.08.037](https://doi.org/10.1016/j.biomaterials.2018.08.037).

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



A collagen microchannel scaffold carrying paclitaxel-liposomes induces neuronal differentiation of neural stem cells through Wnt/ β -catenin signaling for spinal cord injury repair

Xiaoran Li^{a,1}, Caixia Fan^{a,1}, Zhifeng Xiao^{b,1}, Yannan Zhao^b, Haimin Zhang^a, Jie Sun^c, Yan Zhuang^a, Xianming Wu^b, Jiajia Shi^a, Yanyan Chen^a, Jianwu Dai^{a,b,c,*}

^a CAS Key Laboratory for Nano-Bio Interface Research, Division of Nanobiomedicine, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou 215123, China

^b Key Laboratory of Molecular Developmental Biology, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing 100080, China

^c Institute of Combined Injury, State Key Laboratory of Trauma, Burns and Combined Injury, College of Preventive Medicine, Third Military Medical University, Chongqing 400038, China

¹ These authors contributed equally to this work

*Corresponding author:

Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, 398 Ruoshui Road, Suzhou Industrial Park, Suzhou 215123, China. Tel.: +86 512 62872766, fax: +86 51262872596.

E-mail: jwdai@genetics.ac.cn

Download English Version:

<https://daneshyari.com/en/article/8946484>

Download Persian Version:

<https://daneshyari.com/article/8946484>

[Daneshyari.com](https://daneshyari.com)