

# Accepted Manuscript

Full length article

Cartilage Regeneration Using Arthroscopic Flushing Fluid-derived Mesenchymal Stem Cells Encapsulated in a One-step Rapid Cross-linked Hydrogel

Jun Li, Yongcan Huang, Jun Song, Xiaolin Li, Xintao Zhang, Zhiyu Zhou, Di Chen, Peter X. Ma, Wenjing Peng, Wenxin Wang, Guangqian Zhou

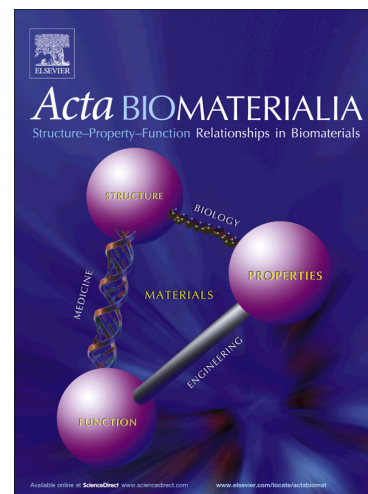
PII: S1742-7061(18)30496-3  
DOI: <https://doi.org/10.1016/j.actbio.2018.08.029>  
Reference: ACTBIO 5633

To appear in: *Acta Biomaterialia*

Received Date: 5 March 2018  
Revised Date: 14 August 2018  
Accepted Date: 23 August 2018

Please cite this article as: Li, J., Huang, Y., Song, J., Li, X., Zhang, X., Zhou, Z., Chen, D., Ma, P.X., Peng, W., Wang, W., Zhou, G., Cartilage Regeneration Using Arthroscopic Flushing Fluid-derived Mesenchymal Stem Cells Encapsulated in a One-step Rapid Cross-linked Hydrogel, *Acta Biomaterialia* (2018), doi: <https://doi.org/10.1016/j.actbio.2018.08.029>

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.



# Cartilage Regeneration Using Arthroscopic Flushing Fluid-derived Mesenchymal Stem Cells Encapsulated in a One-step Rapid Cross-linked Hydrogel

Jun Li<sup>a,b</sup>, Yongcan Huang<sup>c</sup>, Jun Song<sup>b</sup>, Xiaolin Li<sup>a,d</sup>, Xintao Zhang<sup>c</sup>, Zhiyu Zhou<sup>a</sup>, Di Chen<sup>a,e</sup>,  
Peter X. Ma<sup>f</sup>, Wenjing Peng<sup>g</sup>, Wenxin Wang<sup>d\*</sup>, Guangqian Zhou<sup>a\*</sup>

<sup>a</sup> Shenzhen Key Laboratory of Anti-Ageing and Regenerative Medicine, Department of Medical Cell Biology and Genetics, Guangdong Key Laboratory for Genome Stability & Disease Prevention, Shenzhen University Medical School, Shenzhen, Guangdong 518060, China.

<sup>b</sup> Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education and Guangdong Province, College of Optoelectronic Engineering, Shenzhen University, Guangdong, 518060, China.

<sup>c</sup> Shenzhen Engineering Laboratory of Orthopaedic Regenerative Technologies, Departments of Orthopaedics, Peking University Shenzhen Hospital, Shenzhen, Guangdong 510086, China.

<sup>d</sup> The Charles Institute of Dermatology, School of Medicine and Medical Science, University College Dublin, Dublin, Ireland.

<sup>e</sup> Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL 60612, USA.

<sup>f</sup> Schools of Dentistry, Engineering and Medicine, University of Michigan, Ann Arbor, MI 48109-1078, USA.

<sup>g</sup> Shenzhen Anhe Health Sciences Co. Ltd., Longhua District, Shenzhen, China

Correspondence should be addressed to: Dr GQ Zhou (gqzhou@szu.edu.cn) or Dr W Wang (wenxin.wang@ucd.ie).

**Abstract**

Download English Version:

<https://daneshyari.com/en/article/10224741>

Download Persian Version:

<https://daneshyari.com/article/10224741>

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