

Accepted Manuscript

Porous composite scaffold incorporating osteogenic phytomolecule icariin for promoting skeletal regeneration in challenging osteonecrotic bone in rabbits

Yuxiao Lai, Huijuan Cao, Xinluan Wang, Shukui Chen, Ming Zhang, Nan Wang, Zhihong Yao, Yi Dai, Xinhui Xie, Peng Zhang, Xinsheng Yao, Ling Qin



PII: S0142-9612(17)30666-X

DOI: [10.1016/j.biomaterials.2017.10.025](https://doi.org/10.1016/j.biomaterials.2017.10.025)

Reference: JBMT 18307

To appear in: *Biomaterials*

Received Date: 16 June 2017

Revised Date: 7 October 2017

Accepted Date: 13 October 2017

Please cite this article as: Lai Y, Cao H, Wang X, Chen S, Zhang M, Wang N, Yao Z, Dai Y, Xie X, Zhang P, Yao X, Qin L, Porous composite scaffold incorporating osteogenic phytomolecule icariin for promoting skeletal regeneration in challenging osteonecrotic bone in rabbits, *Biomaterials* (2017), doi: 10.1016/j.biomaterials.2017.10.025.

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.

1 **Porous composite scaffold incorporating osteogenic**
2 **phytomolecule Icariin for promoting skeletal regeneration in**
3 **challenging osteonecrotic bone in rabbits**

4 Yuxiao Lai^{a,1,*}, Huijuan Cao^{a,b,1}, Xinluan Wang^{a,c,*}, Shukui Chen^a, Ming Zhang^a, Nan
5 Wang^a, Zhihong Yao^d, Yi Dai^d, Xinhui Xie^{c,f}, Peng Zhang^{a,b}, Xinsheng Yao^e, Ling
6 Qin^{a,c}

7 ^a Translational Medicine R&D Center, Institute of Biomedical and Health Engineering, Shenzhen
8 Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen 518055, PR China

9 ^b Shenzhen Bioactive Materials Engineering Lab for Medicine, Shenzhen 518055, PR China

10 ^c Musculoskeletal Research Laboratory of Department of Orthopaedics & Traumatology and
11 Innovative Orthopaedic Biomaterial and Drug Translational Research Laboratory of Li Ka Shing
12 Institute of Health, The Chinese University of Hong Kong, Hong Kong SAR, PR China

13 ^d Institute of Traditional Chinese Medicine and Natural Products, College of Pharmacy, Jinan
14 University, Guangzhou 510632, China

15 ^e The Department of Orthopedics, ZhongDa hospital, School of Medicine, Southeast University,
16 Nanjing, China

17
18 * Corresponding authors. Translational Medicine R&D Center, Institute of
19 Biomedical and Health Engineering, Shenzhen Institutes of Advanced Technology,
20 Chinese Academy of Sciences, Shenzhen, 518055, PR China

21 E-mail address: yx.lai@siat.ac.cn (YX. Lai), xl.wang@siat.ac.cn (XL. Wang)

22 ¹These authors contributed equally as first author to this work.

23
24
25
26

Download English Version:

<https://daneshyari.com/en/article/6484779>

Download Persian Version:

<https://daneshyari.com/article/6484779>

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