

Accepted Manuscript

Full length article

Multilayered coating of titanium implants promotes coupled osteogenesis and angiogenesis *in vitro* and *in vivo*

Weizhen Chen, Kui Xu, Bailong Tao, Liangliang Dai, Yonglin Yu, Caiyun Mu, Xinkun Shen, Yan Hu, Ye He, Kaiyong Cai

PII: S1742-7061(18)30246-0

DOI: <https://doi.org/10.1016/j.actbio.2018.04.043>

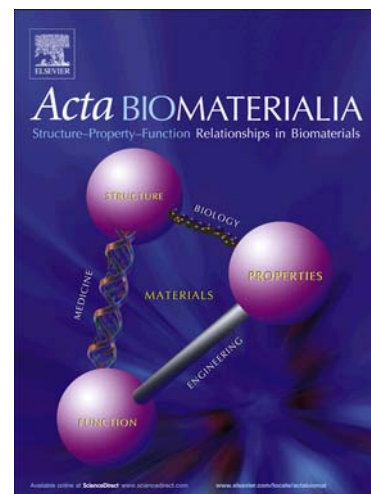
Reference: ACTBIO 5443

To appear in: *Acta Biomaterialia*

Received Date: 20 December 2017

Revised Date: 27 March 2018

Accepted Date: 22 April 2018



Please cite this article as: Chen, W., Xu, K., Tao, B., Dai, L., Yu, Y., Mu, C., Shen, X., Hu, Y., He, Y., Cai, K., Multilayered coating of titanium implants promotes coupled osteogenesis and angiogenesis *in vitro* and *in vivo*, *Acta Biomaterialia* (2018), doi: <https://doi.org/10.1016/j.actbio.2018.04.043>

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.

Multilayered coating of titanium implants promotes coupled osteogenesis and angiogenesis *in vitro* and *in vivo*

Weizhen Chen^{a, c}, Kui Xu^d, Bailong Tao^a, Liangliang Dai^a, Yonglin Yu^a, Caiyun Mu^a, Xinkun Shen^a, Yan Hu^a, Ye He^a, Kaiyong Cai^{a, b*}

^aKey Laboratory of Biorheological Science and Technology, Ministry of Education College of Bioengineering, Chongqing University, Chongqing 400044, China

^bChongqing Collaborative Innovation Center for Minimally-invasive and Noninvasive Medicine, Chongqing 400016, China

^cFirst Affiliated Hospital, College of Medicine of Zhejiang University, & Key Laboratory of Clinical In Vitro Diagnostic Techniques of Zhejiang Province, Hangzhou, Zhejiang 310003, China.

^dBiomedical Engineering Center, Medical School of Ningbo University, Ningbo, Zhejiang 315211, China

*Corresponding author: Prof. Kaiyong Cai

College of Bioengineering

Chongqing University

Chongqing 400044

P. R. China

Tel: +86-23-65102507

E-mail: kaiyong_cai@cqu.edu.cn

Download English Version:

<https://daneshyari.com/en/article/6482854>

Download Persian Version:

<https://daneshyari.com/article/6482854>

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