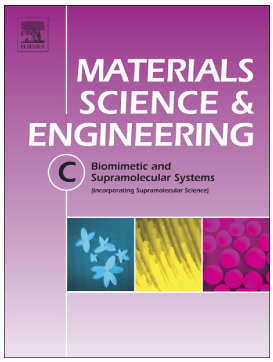
Accepted Manuscript



BMP-2 gene transfection of bone marrow stromal cells to induce osteoblastic differentiation in a rat calvarial defect model

Ming-Kai Hsieh, Chia-Jung Wu, Chun-Chieh Chen, Tsung-Ting Tsai, Chi-Chien Niu, Shinn-Chih Wu, Po-Liang Lai

PII: S0928-4931(17)32156-2
DOI: doi:10.1016/j.msec.2018.06.004
Reference: MSC 8643

To appear in: *Materials Science & Engineering C*

Received date: 5 July 2017
Revised date: 9 May 2018
Accepted date: 7 June 2018

Please cite this article as: Ming-Kai Hsieh, Chia-Jung Wu, Chun-Chieh Chen, Tsung-Ting Tsai, Chi-Chien Niu, Shinn-Chih Wu, Po-Liang Lai , BMP-2 gene transfection of bone marrow stromal cells to induce osteoblastic differentiation in a rat calvarial defect model. Msc (2017), doi:10.1016/j.msec.2018.06.004

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.

ACCEPTED MANUSCRIPT

BMP-2 gene transfection of bone marrow stromal cells to induce osteoblastic differentiation in a rat calvarial defect model

Ming-Kai Hsieh[1,2,3,4], Chia-Jung Wu[2,3] , Chun-Chieh Chen[2,4,5], Tsung-Ting Tsai[2,3,4], Chi-Chien Niu[2,3,4], Shinn-Chih Wu[1,5*], Po-Liang Lai[2,3,4 *]

[1]Institute of Biotechnology, National Taiwan University, Taipei, Taiwan.

[2]Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Taoyuan, Taiwan

[3]Bone and Joint Research Center, Chang Gung Memorial Hospital, Taoyuan, Taiwan

[4]College of Medicine, Chang Gung University, Taoyuan, Taiwan

[5]Department of Animal Science and Technology, National Taiwan University, Taipei, Taiwan.

*Po-Liang Lai and Shinn-Chih Wu are co-corresponding authors

Corresponding author:

Dr. Po-Liang Lai

Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, No. 5, Fu-Shing St., Kweishan, Taoyuan 33305, Taiwan

Tel: +886-3-328-1200 ext. 3612 Fax: +886-3-327-8113

Email: polianglai@gmail.com

Dr.Shinn-Chih Wu

Institute of Biotechnology, National Taiwan University, Taipei, Taiwan, R.O.C.

Department of Animal Science and Technology, National Taiwan University, Taipei, Taiwan, R.O.C. Tel: +886-2-33664147, Fax: +886-2-27324070, E-mail: scw01@ntu.edu.tw

Authors' contributions

M. K. Hsieh, C. J. Wu and C. C. Chen performed the experimental laboratory work. M. K. Hsieh and T. T. Tsai participated in the data analyses, and manuscript drafting. C.C. Niu, S. C. Wu, and P.L. Lai participated in the experimental design. S. C. Wu, and P.L. Lai advised and assisted

Download English Version:

https://daneshyari.com/en/article/7866286

Download Persian Version:

https://daneshyari.com/article/7866286

Daneshyari.com