

Accepted Manuscript

Magnetic nanocomposite scaffolds combined with static magnetic field in the stimulation of osteoblastic differentiation and bone formation

Hyung-Mun Yun, Su-Jin Ahn, Kyung-Ran Park, Mi-Joo Kim, Jung-Ju Kim, Guang-Zhen Jin, Hae-Won Kim, PhD, Professor, Eun-Cheol Kim



PII: S0142-9612(16)00049-1

DOI: [10.1016/j.biomaterials.2016.01.035](https://doi.org/10.1016/j.biomaterials.2016.01.035)

Reference: JBMT 17311

To appear in: *Biomaterials*

Received Date: 12 October 2015

Revised Date: 6 January 2016

Accepted Date: 15 January 2016

Please cite this article as: Yun H-M, Ahn S-J, Park K-R, Kim M-J, Kim J-J, Jin G-Z, Kim H-W, Kim E-C, Magnetic nanocomposite scaffolds combined with static magnetic field in the stimulation of osteoblastic differentiation and bone formation, *Biomaterials* (2016), doi: 10.1016/j.biomaterials.2016.01.035.

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.

Magnetic nanocomposite scaffolds combined with static magnetic field in the stimulation of osteoblastic differentiation and bone formation

Hyung-Mun Yun¹, Su-Jin Ahn², Kyung-Ran Park¹, Mi-Joo Kim¹, Jung-Ju Kim^{3,4}, Guang-Zhen Jin^{3,4},
Hae-Won Kim^{3,4,5,*}, Eun-Cheol Kim^{1,*}

¹*Department of Oral and Maxillofacial Pathology, and Research Center for Tooth and Periodontal Regeneration (MRC), School of Dentistry, Kyung Hee University, Seoul, Republic of Korea.*

²*Department of Prosthodontics, School of Dentistry, Kyung Hee University, Seoul, Republic of Korea*

³*Institute of Tissue Regeneration Engineering (ITREN), Dankook University, Cheonan, Republic of Korea*

⁴*Department of Nanobiomedical Science & BK21 PLUS NBM Global Research Center for Regenerative Medicine, Dankook University, Cheonan, Republic of Korea*

⁵*Department of Biomaterials Science, College of Dentistry, Dankook University, Cheonan, Republic of Korea*

***Correspondence (co-correspondence):**

Eun-Cheol Kim, Department of Oral and Maxillofacial Pathology, School of Dentistry, Kyung Hee University, 1 Heogi-Dong, Dongdaemun-Gu, Seoul 130-701, Republic of Korea. Tel: Korea.
Tel.: +82-2-961-0746; fax: +82-2-960-1457; eckim@khu.ac.kr

Hae-Won Kim, PhD, Professor, Institute of Tissue Regeneration Engineering (ITREN), Dankook University, Cheonan 330-714, Republic of Korea,
Tel) +82 41 550 3081; Fax) +82 41 550 3085; E-mail) kimhw@dku.edu

For: Biomaterials

Download English Version:

<https://daneshyari.com/en/article/6485053>

Download Persian Version:

<https://daneshyari.com/article/6485053>

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