Accepted Manuscript

Biomimetically grown apatite spheres from aggregated bioglass nanoparticles with ultrahigh porosity and surface area imply potential drug delivery and cell engineering applications

Ahmed El-Fiqi, Jennifer O. Buitrago, Sung Hee Yang, Hae-Won Kim

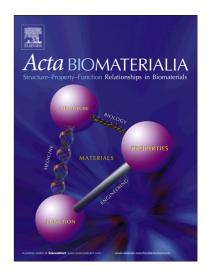
PII: S1742-7061(17)30473-7

DOI: http://dx.doi.org/10.1016/j.actbio.2017.07.036

Reference: ACTBIO 5003

To appear in: Acta Biomaterialia

Received Date: 22 May 2017 Revised Date: 6 July 2017 Accepted Date: 24 July 2017



Please cite this article as: El-Fiqi, A., Buitrago, J.O., Yang, S.H., Kim, H-W., Biomimetically grown apatite spheres from aggregated bioglass nanoparticles with ultrahigh porosity and surface area imply potential drug delivery and cell engineering applications, *Acta Biomaterialia* (2017), doi: http://dx.doi.org/10.1016/j.actbio.2017.07.036

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

Biomimetically grown apatite spheres from aggregated bioglass nanoparticles with ultrahigh porosity and surface area imply potential drug delivery and cell engineering applications

Ahmed El-Fiqi^{1,2,3}, Jennifer O. Buitrago ^{1,2}, Sung Hee Yang ^{1,2}, and Hae-Won Kim^{1,2,4,*}

For: Acta Biomaterialia

¹ Institute of Tissue Regeneration Engineering (ITREN), Dankook University, Cheonan 31116, Republic of Korea

² Department of Nanobimedical Science and BK21 PLUS NBM Global Research Center for Regenerative Medicine, Dankook University, Cheonan 31116, Republic of Korea

³ Glass Research Department, National Research Center, Cairo 12622, Egypt

⁴ Department of Biomaterials Science, School of Dentistry, Dankook University, Cheonan 31116, Republic of Korea

^{*}Corresponding author: Tel) +82 41 550 3081; Fax) +82 41 550 3085; E-mail) kimhw@dku.edu

Download English Version:

https://daneshyari.com/en/article/6449000

Download Persian Version:

https://daneshyari.com/article/6449000

<u>Daneshyari.com</u>