BMC Biomedical Engineering

Open Access

Correction to: Osteogenic potential of heterogeneous and CD271-enriched mesenchymal stromal cells cultured on apatite-wollastonite 3D scaffolds



Sylvia Müller¹, Lyndsey Nicholson¹, Naif Al Harbi², Elena Mancuso², Elena Jones³, Anne Dickinson¹, Xiao Nong Wang¹ and Kenneth Dalgarno^{2*}

Correction to: BMC Biomed Eng (2019) 1: 16. https://doi.org/10.1186/s42490-019-0015-y

In the original publication of this article [1] the figures and captions were linked incorrectly. In this correction article the figures & captions are correctly published. The publisher apologizes to authors and readers for this error.

Author details

¹Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, UK. ²School of Engineering, Newcastle University, Newcastle upon Tyne NE2 4HH, UK. ³Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds, Leeds, UK.

Published online: 11 December 2019

Reference

 Müller S, Nicholson L, Al Harbi N, et al. Osteogenic potential of heterogeneous and CD271-enriched mesenchymal stromal cells cultured on apatite-wollastonite 3D scaffolds. BMC Biomed Eng. 2019;116. https://doi. org/10.1186/s42490-019-0015-y.

The original article can be found online at https://doi.org/10.1186/s42490-019-0015-y

* Correspondence: kenny.dalgarno@ncl.ac.uk;

kenny.dalgarno@newcastle.ac.uk

 $^{2}\mbox{School}$ of Engineering, Newcastle University, Newcastle upon Tyne NE2 4HH, UK

Full list of author information is available at the end of the article



© The Author(s). 2019 **Open Access** This article is distributed under the terms of the Creative Commons Attribution 4.0 International License (http://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The Creative Commons Public Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated.





Müller et al. BMC Biomedical Engineering (2019) 1:34





Fig. 4 Growth kinetics of A-W scaffold seeded PA-MSC and CD271-MSC. **a** Graph showing the concentration of DNA obtained from MSC seeded scaffolds cultured in MSC expansion medium for 1, 3, 7 and 14 days. Day 0 value was obtained from unseeded cells. Error bars represent the SEM of 5 independent experiments. *** $p \le 0.001$ (two way paired ANOVA with Bonferroni post-test). **b-e** Scanning electron microscopy images showing MSC seeded scaffolds after 14 days of culture in MSC expansion medium. Scale bars represent 2 mm (**b**, **d**) and 500 µm (**c**, **e**). Images are representative of 3 independent experiments







Fig. 6 Overall shape and size of A-W scaffolds. A-W scaffolds were produced using the process described by Mancuso et al. (2017). Production involved the use of a Z Corp Z310 plus to print the 3D scaffolds from the A-W powder, followed by sintering in a furnace at 1150 °C to create a porous bowl shaped structure