

October 11, 2014



Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: Salmasi et al 12947-edited).

**Title: The role of nanotopography in the development of tissue engineered 3D organs and tissues using mesenchymal stem cells**

**Author:** Shima Salmasi, Deepak M Kalaskar, Wai W Yoon, Gordon W Blunn, Alexander M Seifalian

**Name of Journal:** *World Journal of Stem Cells*

**ESPS Manuscript NO:** 12947

The manuscript has been improved according to the suggestions of reviewers:

**Responses to Reviewer 1.**

**a) There are numerous grammatical errors and some redundancy.**

We have corrected the manuscript to ensure it is free of grammatical errors and redundancy.

**b) The question at the end of the title should be removed.**

We have removed the question mark at the end of the title.

**c) Figure 4, the 'B' and 'C' are hard to read; should be in white.**

We have corrected this figure and the 'B' and 'C' are now in white.

**d) There is no indication that permission has been obtained by publishers to use figures from other publications.**

Figures taken from previously published articles have been reproduced after permission was obtained from the copy right owner of each of the images. Please note that figures 1 & 2 were generated by the authors of the above article, while figure 3 was open access, hence no permission was required. In regards to other figures (Figures 4-8) permissions have been obtained through the publisher of each individual original work.

## **Responses to Reviewer 2.**

- a) **Please add the description of possible adverse systemic of nanoparticle when the surface of nanotopography are degraded or adverse effect of it for the proliferation, differentiation of MSCs.**

According to this comment we have added a new section to the manuscript entitled "POTENTIAL ADVERS EFFECTS OF ERODED NANOPARTICLES ON MSCS". This section explains what happens to nanoparticles once a surface with nanotopography is eroded. It also explains the potential adverse effects of such nanoparticles on the cellular behaviour of MSCs by providing concise examples.

We would like to thanks all the reviewers and editor for their valuable input to improve this manuscript.

Sincerely yours,

Dr Deepak Kalaskar