Reviewer's report

Title: Analysis of human alveolar bone osteoblasts behaviour on a hydroxyapatite nanotechnological substrate: an in vitro study.

Version: 2
Date: 3 January 2014

Reviewer: Luciana Saraiva

Reviewer's report:

MAJOR COMPULSORY REVISIONS
1. Abstract: rewrite lines 2 and 3, they are confused
2. Abstract: replace "was monitored upon culture on a ..." by "were analyzed in a culture with ... substrate and compared ...."
3. Abstract: line12 - omit as
4. Abstract: line14 - replace osteocontuctive by osteoconductive
5. Abstract - conclusions - rewrite to improve the meaning
6. Introduction - 4th paragraph - line 4 - replace " when HA is grafted under healthy periosteum and well vascularized bone" by " when HA is grafted beneath a healthy periosteum and on a well-vascularized bone"
7. Introduction - 6th paragraph - line 1/2: can stimulate both THE differentiation ... osteogenic pathways AND human ....
8 M&M: line 1 - fresh human bone removed from alveolar crest was obtained after approval ... (omir full ethical and replace isolates by removed)
9. M&M: line 3 - replace y by years-
10. M&M: line 6 - replace processed by processing
11. M&M: line 14 - replace microscope by microscopy
12. M&M: line 18 - replace disches by plates
13. Results: rewrite the first paragraph, it is confused
14. Results: page 9 - table 3 - no data available (omit). In the same line replace TO by to.
15. Results: no statistical data was shown
16. Discussion: rewrite the first paragraph, it is confused
17. Discussion page 10 - 1st paragraph, lines 7/8 - replace: "to osteoblasts are, likely, the basic and pivotal mechanism regulating bone healing" by "to osteoblasts are, probably, basic and pivotal mechanisms in the regulating of bone healing"
18. Conclusions - 1st paragraph - put "on site" before human ostoblasts
19. References: review the references because the references 6 and 21 are the same
20. Figure 2: correct letters in Figure 2 (B and C are inverted)

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests' below.