Reviewer’s report

**Title:** Osteogenic Differentiation of Amniotic Epithelial Cells: Synergism of Pulsed Electromagnetic Field and Biochemical Stimuli

**Version:** 2  **Date:** 20 May 2014

**Reviewer:** Mei-Ling Ho

**Reviewer’s report:**

Minor Essential Revisions:
Most of the revision is appropriate; however, the following errors need to be corrected:

1. Fig 4 is the IHC for OC, but showed Alizarin red staining on the top of the fig.
2. Some English grammar errors in Discussion section are indicated in yellow:
   1) P.8: The osteo-induction medium was also ability to induce the osteogenesis of AECs as reported in the previous literature[5].
   2) P.9: Additionally, similar gene expression profile of BMP2, Runx2 and #-catenin were observed. These results may be due to the fact that BMP-2/Runx2 or Wnt/#-catenin signaling are required for the initiation of osteoblast differentiation,
   3) P.9: In our study, the induction expression of Nrf2 and Keap1 was observed in the treatment of PEMF and/or osteogenic inducing media, and the gene expression of Nrf2 and Keap1 exhibited a similar profile during the osteogenesis of AECs.

**Level of interest:** An article whose findings are important to those with closely related research interests

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

**Statistical review:** No, the manuscript does not need to be seen by a statistician.