Reviewer's report

**Title:** Meta-analysis of differentially expressed genes in osteosarcoma based on gene expression data

**Version:** 1  **Date:** 11 June 2014

**Reviewer:** Xiaofeng Lv

**Reviewer's report:**

The authors performed a microarray meta-analysis with the objective to identify DEGs and biological processes associated with gene expression changes in osteosarcoma (OS) in order to understand the pathology of OS and to generate new therapies. This is a carefully done study and the findings are of considerable interest. A few minor revisions are list below:

1. I suggest that the authors spend some on improving the quality of English. At the first paragraph in result part, the last sentence “In 4 studies bone tissues from individuals with OS was utilized, while in 3 studies with OS cell lines and one study with bone tissues and cell lines respectively” is a little misleading and there is something wrong with the usage of “respectively”.

2. In introduction part, the author didn’t mention whether similar meta-analysis has been performed before to present the originality of this meta-analysis. If similar meta-analysis has been done, point out the weakness.

3. I recommend that the authors give more details when explaining the result, for example, the authors may state what’s node and edge.

**Level of interest:** An exceptional article

**Quality of written English:** Acceptable

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

No.