Reviewer’s report

**Title:** Global expression profiling identifies adipogenesis-regulated microRNAs in mouse primary adipocytes and links miR-21 to human obesity

**Version:** 1  **Date:** 20 December 2010

**Reviewer:** Lei Liu

**Reviewer’s report:**

This paper profiled the global miRNAs with microarray to carry out the parallel analysis of both white and brown primary adipocytes. Moreover, they found that mir-21 expression correlated positively with human obesity. The contents were well described and writing was acceptable. There are a number of points should be addressed. It can be accepted after minor essential revisions.

Major comments:

1. The title should be rewrote.
2. Keywords were not enough.
3. How about the quality of the total RNA of murine.
4. This paper thought that “either the gene-chip probe or the TaqMan assay is unreliable”. What about other methods or possible reason for this result?

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

**Quality of written English:** Acceptable

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

**Declaration of competing interests:**

I declare that I have no competing interests.