Reviewer's report

**Title:** Circulating miRNAs reflect early myocardial injury and recovery after heart transplantation

**Version:** 2 **Date:** 17 May 2013

**Reviewer:** Junming Guo

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MicroRNAs (miRNAs), have been showed in human plasma and correlate with varying pathologies. In this study, the authors monitored early myocardial injury and recovery after heart transplantation by detecting level of circulating muscle-specific miR-133a, miR-133b and miR-208a. These results are interesting.

1. Besides miR-133a, miR-133b and miR-208a, there are several other muscle-specific miRNAs, such as miR-1, etc. Why only these miRNAs were used in this study?

2. P2: qRT-PCR is not quantitative real-time polymerase chain reaction, but quantitative reverse transcription-polymerase chain reaction.

3. P6: “To date, no housekeeping miRNAs have been established and validated to normalize for the miRNAs content.” It’s wrong. Actually, miR-16 has been used as a reference in the detection of body fluid miRNAs (Cui L, et al. Cancer. 2013 May 1;119(9):1618-26). Should gave some discussion about this.

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

**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.

**Declaration of competing interests:**

I declare that I have no competing interests.