Reviewer’s report

Title: Genome-wide discovery and characterization of long noncoding RNAs in patients with multiple myeloma

Version: 1 Date: 31 May 2019

Reviewer: Jie Sun

Reviewer’s report:

The authors performed lncRNA profiling in only three MM cells and conducted some trivial analysis. The following problems exist in the current study.

1. In the introduction, recently several publications about lncRNAs biomarkers and multiple myeloma are missing, these related efforts should be introduced and commented, for example: PMID: 26362431, PMID: 26895470, PMID: 29700321

2. There is unclear in method section. For example, how lncRNA and mRNA expression were obtained from RNA sequencing data. When the authors identified the differentially expressed lncRNAs, how many lncRNAs were measured in RNA sequencing data? There is a lack of results from the DE analysis, eg. methods, adjusted p-value, mean expression in groups, log fold changes. How the ceRNA network was constructed?

3. The samples used in study is very small, is not enough for get some conclusion.

4. Although the authors checked the enriched GO and kegg annotations for lncRNAs, there was no further study on the involved biological pathways or molecular mechanism about the individual lncRNAs.

5. There are many grammar errors all through the text. The English needs significant improvement to increase the quality and clarity of the article.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.
No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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