Reviewer’s report

Title: LncRNATUG1 alleviates sepsis-induced acute lung injury by targeting miR-34b-5p/GAB1

Version: 0 Date: 20 Dec 2019

Reviewer: Varsha Suresh Kumar

Reviewer's report:

The authors have done a comprehensive study on the role of TUG1 lncRNA and its downstream targets in models of sepsis induced acute lung injury. The experiments have been logically carried out. Please address the following points:

1. Could the authors please indicate in the results and figure legends (Fig2 to Fig6) how many mice/ samples were used for each of the individual experiments. The use of dot plots in place of bar graphs wherever possible would also be helpful.

2. For the Dual Luciferase reporter assay, what amount of the vectors was used for transfection.

3. Were the miR mimics synthesized with a specific design/ characteristic? If so, the authors should add some details about the miR mimics synthesized by GenePharm in the methods section.

4. Could the authors please include a quantification for Fig2A.

5. Study of lnRNA TUG1 expression in human lung tissue sepsis samples would further highlight the clinical relevance.

6. Some minor grammatical errors need correction.

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

Yes

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

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.
Yes

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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