Reviewer's report

Title: MicroRNA and mRNA expression profiling in rat acute respiratory distress syndrome

Version: 3 Date: 8 June 2014

Reviewer: Tamas Dolinay

Reviewer's report:

The revised manuscript provides important additions to our current understanding of gene-environment interactions in ARDS.

Minor essential revisions:
1. Abstract page 1 line 15 after miR26a requires a comma no a period
2. Background page 2, line 2-3, sentence should say: ARDS usually occurs in sepsis or with other major injuries that may lead to multiple organ failure. Lung inflammation, hypoxemia and non-cardiogenic pulmonary edema formation are characteristic features of ARDS.
3. Let7 is a gene name, the first letter should be capitalized throughout the manuscript.
4. page 17 and 27, please take out underlining from website references
5. Please review table and figure titles for unnecessary periods.

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.