Reviewer’s report

Title: Regulating Autonomic Nervous System Homeostasis improves Pulmonary Function in rabbits with Acute Lung Injury

Version: 0 Date: 21 Dec 2016

Reviewer: David Köhler

Reviewer’s report:

The authors observe a regulation of homeostasis of automatic nervous system (ANS), by inhibiting sympathetic hyperactivity and/or enhancing parasympathetic activity with an acute lung injury model.

The authors show a good correlation between the sympaticus and parasympaticus activity triggered by the ALI model. The study is well designed, conducted and the model used is suitable to describe the withdraw conclusions.

Generally the figure legends of the complete manuscript are extremely simplified. The figures should stand alone and therefore include the description of the experiment, method, the groups, the n number and statistical analysis.

To strength the observed evidences, in figure 1, 2 and 3 error bars are used but statistical analysis should be included additionally, and comparisons between the groups described and highlighted.

In the results section the indexed figures are not presented consistently, (so for Fig5 indexed parameters a), b) and c) are not independently described) as well as in the figure legends.

The indexing of figure 6 is barely visible, and there should be burned in on different colour of just sit in black outside of the picture. Additionally, if the condenser of your microscope is adjusted slightly lower and with increased light power, your system will produce lung pictures with even light in the centre and in the edges of your CCD camera.

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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