Reviewer's report

Title: Histone deacetylase inhibition by Entinostat for the prevention of electrical and structural remodeling in heart failure

Version: 0 Date: 19 Mar 2018

Reviewer: Ajay Chowdary Donepudi

Reviewer's report:

Manuscript on "Entinostat prevents remodeling in heart failure" by Freundt et al shown interesting data on effects of a Hdac inhibitor on electrical and structural remodeling in heart failure. This manuscript shown some interesting changes in fibrosis and ion channels protein expression with Hdac inhibitor administration. Although this manuscript has some interesting data, authors did not explained data well in manuscript. Data in this manuscript showed entinostat administration itself has some changes in protein expression and % EAD values similar to paced animals. These changes by entinostat were not mentioned and discussed in the manuscript. Here are my major concerns-

1. Authors need to discuss effects of entinostat in non-paced animals.

2. Western blot images are too blurry. Authors need to provide good images. Why authors only quantified one sample from control non paced animals.

3. Statistics between entinostat treatment and control group are missing. How statistics can be performed with one sample in group. Authors should provide their detailed statistics analysis data.

4. Figure legends in this manuscript are very confusing.

5. One of the significant observation in this manuscript is fibrosis. Images are not clear. Figure legends are confusing for this figure (figure-5). Number of animals mentioned in this figure legend does not match with number of animal mentioned in methods.

6. Authors need to do thorough revision of manuscript for grammatical errors.
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.

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 recommend additional statistical review

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

Needs some language corrections before being published

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