Reviewer’s report

Title: Notch1 signaling induces Epithelial-Mesenchymal Transition in lens epithelium cells during hypoxia

Version: 0 Date: 05 Jan 2017

Reviewer: Choul Yong Park

Reviewer's report:

This is an interesting experimental report about the effect of Notch1 signaling pathway on lens epithelium EMT.

To improve the manuscript, I would like to recommend some major revision to include more back-up data.

The detailed comments are belows;

Figure 1. It is necessary to describe why the cellular morphology looked more mesenchymal. What were the characteristics the authors considered when judging cellular morphology. In addition, the phase contrast microscopic pictures have poor resolution. It is necessary to provide both low resolution and high resolution images. If the authors can provide the pictures with immune-cytochemical staining, it would be far better to compare the groups. What was the expression level of keratin and fibronectin at 12 and 24 hour of CoCl2 exposure? Specify how many times the experiments were repeated to get the graphs provided.

Figure 2. Again, please specify the experimental repeat times to get the final graphs. It is necessary to provide the western blot results from 12 and 24 hour of CoCl2 exposure samples.

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.

Yes

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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