Reviewer’s report

Title: Rapamycin Prevents Retinal Neovascularization by Downregulation of Cyclin D1 in a Mouse Model of Oxygen-Induced Retinopathy

Version: 0 Date: 17 May 2019

Reviewer: Belal Azab

Reviewer's report:

Here are my comments:

- English language revision is needed, some sentences are not clear and vague, especially the methods section.

- Figure 1 (B and C), the legend should specify, where the neovascularization is, like how the nonperfused area is point on by the arrows. Figure 2, should specify what the arrows stand for. in overall the figure legends should be more descriptive and points out all elements of the figure.

- I think the methods should be explained in a way that helps the reader understands why each experiment is used in this study.

- Rapamycin is known to be somehow safe to the eyes, but it could be a good point to add any side effects this drug has on other organs. It is suggested that it has a potential use as a treatment of retinal neovascularization-related diseases, but it could cause a problem elsewhere, so the potential harm should also be included somewhere in the manuscript, or even the it should be stated that there is no side effects if there is none.

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.

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

**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal