Reviewer’s report

Title: Rosiglitazone increases endothelial cell migration and vascular permeability through Akt phosphorylation

Version: 0 Date: 08 Feb 2017

Reviewer: Christian Andersen

Reviewer's report:

State why JAM-A and ZO-1 were used as the tight junction markers.

Need hypothesis driven reasoning for experiment.

Why was 5mg/kg/day of rosiglitazone given to mice? How relevant to human treatment? How much of rosiglitazone makes it to target site?

Use known PPARgamma molecular mechanism as control (MAPK/ERK).

Figure 2b: Please comment on the almost 50% reduction of cell migration when PI3K inhibitor is used.

Why were combination treatments (of inhibitors) not used? PI3K + Akt inhibitor treatments.

More comments in uploaded paper.

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.

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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