Reviewer's report

Title: Effects of resveratrol on Th17 cell-related immune responses under tacrolimus-based immunosuppression

Version: 0 Date: 21 Dec 2017

Reviewer: Ratana Banjerdpongchai

Reviewer's report:

Major points:

It is an intriguing study of the resveratrol effect on Th17 cell-related immune responses in the presence of tacrolimus (an immunosuppressive drug), in the mimic transplantation status using PBMCs, HRPTEpiCs (human renal proximal tubular epithelial cells lines), Jurkat cells in vitro, whether in vivo and ex vivo model (xenograft using allograft in mice). It is a novel finding of explanation of the mechanism of resveratrol on enhanced immune suppression together with tacrolimus. The signaling pathways were also clarified to be via AMPK and mTOR phosphorylation pathway. However, the report should include of the sources, tradename, company, city and country of the reagents in Methods. The authors used the Real-time RT-PCR, it did not need to add Real-time PCR again in the following sub-topic. The polarization should be more clarified and described. The conditions or species or sources of each cell should be emphasized, which mimic transplantation in human-beings or mammals, in vitro, in vivo and ex vivo. Discussion part should be added with the research works of Jang GR & Harris RZ, 2007: Drug interactions involving ethanol and alcoholic beverages, about the polyphenols in alcohol interaction resulting in hepatotoxicity.

Minor points:

Every full name should be mentioned first and abbreviated form in the brackets. Reference format: especially the journal name: some are in full and some are abbreviated. It should be strictly according to that of the journal's form.
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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