

ANSWERING REVIEWERS

Dear Editor,

Please find the enclosed revised manuscript in Word format (file name: 20720-Revised manuscript.docx).

Title: Mucosal-associated invariant T cells from induced pluripotent stem cells: A novel approach for modeling human diseases

Authors: Chie Sugimoto, Hiroyoshi Fujita, Hiroshi Wakao

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 20720

The manuscript has been revised according to the suggestions of the reviewer.

(1) The authors should clearly specify what is new in their work in comparison with other related works (i.e. Nishimura T, et al. *Cell Stem Cell* 2013, or Vizcardo R, et al., *Cell Stem Cell*. 2013).

Response: As described in the first part of the manuscript (pages 4-10), MAIT cells belong to a novel innate-like T cell family member, which is phenotypically and functionally distinct from the conventional T cells such as the cancer antigen-specific CD8 T cells as mentioned in the works by Nishimura et al. and Vizcardo et al. Furthermore, we have added several descriptions regarding the differences between MAIT cells and those in the cancer antigen-specific T cells in page 11.

(2) The work is interesting though it is mostly a methodological description with a possible, potential, clinical application; though, there are no scientific hypotheses or experiments in it.

Response: We respectfully disagree with the reviewer's comment. Our manuscript is a review paper in which we incorporate the reported findings, our own results, and perspectives. As a review, we present neither original experimental data nor hypotheses in this article. However, to facilitate comprehension we have modified a section title to "Future perspectives...." in page 12.

(3) I would suggest to revise the English writing through the whole manuscript.

Response: Thank you for your kind recommendation. The revised manuscript by a native English speaker is now available (see attached 20720-Language certificate.pdf).

Thank you again for reviewing our manuscript for publication in the *World Journal of Stem Cells*.

Looking forward to hearing back from you very soon.

Yours Sincerely,

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