

ANSWERING REVIEWERS

January 04, 2015



Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 12626-review.doc).

Title: UV-induced alloantigen-specific immunosuppression in transplant immunity

Author: Tomohide Hori, Kagemasa Kuribayashi, Kanako Saito, Linan Wang, Mie Torii, Shinji Uemoto, Taku Iida, Shintaro Yagi, Takuma Kato

Name of Journal: *World Journal of Transplantation*

ESPS Manuscript NO: 12626

The manuscript has been improved according to the suggestions of reviewers:

1 Format has been updated, according to your Science Editor.

2 Revision has been made according to the suggestions of your reviewers

(1) The schema illustrating the populated reactions in achieving alloantigen-specific immunosuppression after UV irradiation, involving UV irradiation, APCs, Tregs, NKT cells and key cytokines (Reviewer #1's comment)

Thank you for your valuable suggestion.

At first, according to your suggestion, we added new figure (Figure 1, in the revised manuscript) and the brief mention in the figure legend (Page 24 line 1-14, in the Marked revised manuscript). Figure 1 is the schema illustrating the populated reactions in achieving alloantigen-specific immunosuppression

after UV irradiation, involving UV irradiation, APCs, Tregs, NKT cells and key cytokines. According to your suggestion, we added the mentions of this mechanism in the text (Page 10 line 2-16, in the Marked revised manuscript).

(2) Clinical usage and future perspectives (Reviewer #1's comment)

Thank you for your valuable suggestion.

According to your suggestion, for possibilities for clinical use, and some future perspectives in human, we added the mentions of the current status in the text (Page 11 line 3-page 12 line 13, in the Marked revised manuscript).

(3) Summarization of the current findings (Reviewer #2's comment)

Thank you for your suggestion.

Reviewer#1 also suggested that we have to summarize the current findings. Then, we summarized the current findings in the mention and new figure.

According to your suggestion, we added the mentions of this mechanism in the text (Page 10 line 2-16, in the Marked revised manuscript).

According to your suggestion, we added new figure (Figure 1, in the revised manuscript) and the brief mention in the figure legend (Page 24 line 1-14, in the Marked revised manuscript). Figure 1 is the schema illustrating the populated reactions in achieving alloantigen-specific immunosuppression after UV irradiation, involving UV irradiation, APCs, Tregs, NKT cells and key cytokines.

We believe our paper may be informative for journal readers.

(4) Clinical relevance (Reviewer #2's comment)

Thank you for your valuable suggestion.

Reviewer 1 also suggested that we have to mention the clinical use. Clinical physicians recognized that UV-induced immunosuppression has a therapeutic potential in human, and therefore, UV-irradiation itself have been already applied for actual clinical use (Page 11, line 14-16, in the Marked revised manuscript). Also, UV-irradiation accompanied with antigen immunization in human has been reported, and we quoted these human-related studies in the initial manuscript. We added the new references in the revised manuscript.

According to your suggestion, for possibilities for clinical use, and some future perspectives in human,

we added the mentions of the current status in the text (Page 11 line 3-page 12 line 13, in the Marked revised manuscript).

3 References and typesetting were corrected, according to your Science Editor.

Thank you again for publishing our *MiniReview* manuscript in the *World Journal of Transplantation*.

Sincerely yours,

Tomohide Hori, Ph.D., M.D.

Department of Hepato-Pancreato-Biliary and Transplant Surgery

Kyoto University Graduate School of Medicine

54 Shogoinkawara-cho, Sakyo-ku, Kyoto 606-8507, Japan

Phone: +81-75-751-3651; Fax: +81-75-751-3106.

E-mail: horit@kuhp.kyoto-u.ac.jp