

Format for ANSWERING REVIEWERS

December 22, 2014



Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 13497-review.doc).

Title: Interplay between Rab27a effectors in pancreatic beta-cells

Author: Mami Yamaoka, Toshimasa Ishizaki, Toshihide Kimura

Name of Journal: *World Journal of Diabetes*

ESPS Manuscript NO: 13497

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

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer.

(1) In Fig 2., explanation of "resident" and "visitor" is lacking in the figure legend and the main text. Please make clear the meaning of these descriptions.

We have mistaken the words. We have changed "Resident" to "Passengers" in Figure 2. Moreover, we have added explanation of these words in the figure legend and the main text (page 8, line 4- and page 23, line 4-).

(2) The authors suggest that the mechanism of GTP-GDP switch of Rab27a induces endocytosis of secretion granule and keeps the surface area of the beta cells constant. This means that a mutation of Rab27a that inhibits interaction with coronin3 may increase the surface area of the beta cells after insulin secretion. Do the authors have data about that?

A long-term overexpression of a dominant negative coronin 3 mutant promoted beta-cell death (unpublished data). These results suggest that the membrane recycling system controlled by Rab27a may be necessary for beta-cell survival. Further studies are required to investigate the surface area of the beta cells. We have rewritten the text (Page 13, line 22-).

(3) I suggest only very few modifications in order to insert assessments for possible clinical applications of Rab27a in pancreatic cells and pancreatic diseases.

In accordance with the reviewer's suggestion, we have added text regarding possible clinical applications of Rab27a in pancreatic cells and pancreatic diseases (Page 13, line 22-).

3 References and typesetting were corrected

Sincerely yours,

Toshihide Kimura

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