



Notice: Please give your response to the comments point-by-point as shown in the following format.

【At the END of each reply/response from you, please DO describe how you responded to the reviewer comment in the text, e.g., "we added some data(see Page xx, line xx)" or "we have modified our text as advised (see Page xx, line xx)"] .

Comment 1: *****

Reply 1: *****

Changes in the text: *****

Comment 2: *****

Reply 2: *****

Changes in the text: *****

Peer Review File

Article information: <http://dx.doi.org/10.21037/atm-20-7881>

Reviewer Comments

Comment 1:

Introduction:

The last part of the introduction is not clear, please clarify your aim in this study not your results!

The last sentence of the introduction is not clear.

Reply 1: We deleted the last sentence of the introduction and revised the penultimate sentence “The goal of this study was to explore further the role of CD8⁺CD45RC^{low} Treg in alleviation rejection in the rat liver transplant model.” to read “The goal of this study was to explore further the role of CD8⁺CD45RC^{low} Treg and FGL2 in alleviation rejection in the rat liver transplant model.”

Changes in the text: We have revised the description in the introduction. (see Page 3, line72-78)

Methods:

Please describe your experimental set up in detail:

Comment 2: How many rats were in each group

Reply 2: blank group (n=18), control group (n=18), and FGL2+ group (n=24)

Changes in the text: We explained the grouping and the amount of rats in each group. (see Page 4, line107-109)

Comment 3: Did you treat only Lewis rats with viral genome?

Reply 3: The donors (Lewis rats) were treated with viral genome 28 days before operation. The recipients did not receive any treatments preoperative and postoperative.

Changes in the text: We furtherly described the intervention measures for donors and recipients. (see Page 4, line 111)

Comment 4: Did the recipient receive any treatment following the transplantation?

Reply 4: The recipients did not receive any treatments following the transplantation.

Changes in the text: We furtherly described the intervention measures for recipients. (see Page 4, line 111)

Comment 5: In qPCR: Which samples did you use for this analyses?

Reply 5: The liver and spleen of recipients in different groups and in different times.

Changes in the text: We explained what samples we used. (see Page 5, line 132)

Comment 6: H&E Staining: I Assume that you didn't use fluorescence microscopy but light microscopy

Reply 6: Yes, we used the light microscopy.

Changes in the text: We changed the "fluorescence microscopy" into "light microscopy" (see Page 6, line 165-166)

Results:

Comment 7: Page 7, 177-178: This meaning of this sentence is not clear.

Reply 7: Sorry, we did not make it clear. In the spleen, there was no significant difference in the expression of regulatory CD8⁺CD45RC^{low} Tregs among the three groups, but the expression level of CD8⁺CD45RC^{low} Tregs showed a significant decrease with the survival time longer.

Changes in the text: We edited this sentence. (see Page 7, line 193-195)

Comment 8: Page 7, 183: What does "GFP" mean?

Reply 8: It is a kind of Green Fluorescent Protein (GFP)

Changes in the text: We have added the meanings of GFP (see Page 7, line 200)

Comment 9: Please use unique abbreviations for the groups (either FGL2+ or AAV-FGL2, not both.

Reply 9: We used the abbreviations for the groups (FGL2+)

Changes in the text: We have modified our text as advised.

Comment 10: Please use the term "control" not for the FGL2- group

Reply 10: We renamed the group, they are blank group, control group and FGL2+ group, respectively.

Changes in the text: We have modified our text as advised (see page 4, line 107-109).

Comment 11: Page 7, 195: You cannot use the term "continuously increased", since you have only two time points in this group.

Reply 11: We agree with the opinions of reviewers. We deleted the word "continuously".

Changes in the text: We have modified our text as advised. (see page 8, 213)

Comment 12: Page 8, 223: What does "IHC" mean?

Reply 12: Its meaning is "immunohistochemistry"

Changes in the text: We changed the "IHC" to "immunohistochemistry". (see Page 9, line 241)

Comment 13: Please provide results, which you used for the statistic.

Reply 13: The survival time was exhibited in the article, other data were presented as tables.

Changes in the text: We added data and tables (see Page 10, line 253-256)

Discussion:

Comment 14: Page 10, 293: It is too bold to say, that "Treg and FGL" are necessary for alleviation of the acute rejection", even your results are quite good.

Reply 14: We agree with the opinions of reviewers.

Changes in the text: We changed "are necessary for" to "may exert effects for" (see Page 11, line 314-315, 321-322)

Figures:

Comment 15: Figure 2 B/C are confusing. Please clarify the POD7 and POD 14 on the first diagrams left (2B).

Reply 15: We are sorry, this our mistakes. We have changed the icons.

Changes in the text: We changed the icons.

Comment 16: Please let your manuscript checked by a native speaker for grammar after the revisions

Reply 16: We would like to choose the extensive language editing service from your company - AME Editing Service, thank you.