

Dear Editor,

We are submitting a revised manuscript #28950 entitled “NADPH oxidase-1 deficiency offers little protection in mice infected by *Salmonella Typhimurium*” to *World Journal of Gastroenterology* to be considered for publication. In this revised manuscript, we made changes according to reviewer’s comments. Specific changes are listed below (highlighted in yellow):

Reviewer’s comments:

Chu F-F et al. investigated the role of Nox1 in the *Salmonella typhimurium* (S.t_m) colonization and infection in mice model. The paper is interesting and useful relative to the general understanding of S.t_m infection with relevant cognitive implications in terms of colonization and infectious treatment. However, some effort should be made to improve the manuscript.

- 1) Results section, page 11: To improve the understanding of the results, the authors should indicate the role and function of the Villin as an actin-binding protein associated with the actin core bundle of the brush border.

Response: We have added the statement in page 11 as highlighted.

- 2) The policy of this Journal requires that the structure of the manuscript contain title, abstract, key words, introduction, materials, methods, experimental procedure, results, discussion, conclusion, acknowledgements, and references. The authors clearly presented the manuscript with all the paragraphs mentioned except for the conclusion section. Moreover, the authors clearly identified an interesting point of view of their research highlighting, at the end of the discussion section, that “A clinical relevance of this study is that when targeting Nox1, it is unlikely that the anti-Nox1 therapy would increase risks of bacterial infection”. This should be amplified with more literature information and the conclusion section should present future research directions.

Response: We have added more literature information on the other roles of Nox1 at the end of Discussion section. We added Conclusion section which has future research direction.

- 3) In Material and methods section, *Salmonella enteric serovar Typhimurium* (S. T_m) paragraph (page 7) the authors mentioned a figure. Please add the number 2, which the figure refers to.

Response: The figure number is added.

4) Figures 2 and 3: the authors refer to the Salmonella as “Sal” but in the manuscript is always named S.tm. Please uniform the figures to the text.

Response: We have changed the labels in Figures 2 and 3 to S. tm to make it consistent with the text.

Editor’s comments:

1) Please modify your title to include the keyword 'typhlitis induced'.

Response: The title was modified to- **NADPH oxidase-1 deficiency offers little protection in *Salmonella* Typhimurium-induced typhlitis in mice**

2) Please reformat all the reference numbers (superscript with square brackets). Please check throughout. Normal line space is required.

Response: This was done (reference numbers in superscript with square brackets, and 1.5 line spacing throughout).

3) Please provide language certificate letter by professional English language editing companies (Classification of manuscript language quality evaluation is B). For manuscripts submitted by non-native speakers of English, please provided language certificate by professional English language editing companies

Response: The City of Hope has an English language editing office. We submitted the paper to that office for editing. The paper was revised and the office certifies that the paper is now at an acceptable level of English quality per the signed letter.

Tables shouldn’t be images, but as **word or excel** format so that I can edit them easily.

Response: The table was submitted in word

4) Please provide the “Highlighted contents” here, which is a necessary content. See the requirements as follows:

COMMENTS

Background

To concisely and accurately summarize the related background of the article and to enable the readers to gain some basic knowledge relevant to the article, thus helping them better understand the significance of the article.

Research frontiers

To briefly introduce the hotspots or important areas in the research field related to the article.

Innovations and breakthroughs

To summarize and emphasize the differences, particularly the advances, achievements, innovations and breakthroughs, from the other related or similar articles so as to allow the readers to catch up the major points of the article.

Applications

To summarize the actual application values, the implications for further application and modification, or the perspectives of future application of the article.

Terminology

To concisely and accurately describe, define or explain the specific, unique terms that are not familiar to majority of the readers, but are essential for the readers to understand the article.

Peer review

To provide the comments from peer reviewers that most represent the characteristics, values and significance of the article, and allow the readers to have an objective point of view toward the article.

Response: These sections were added to the text.

We are extremely grateful to the reviewer's insightful comments and appreciation of our work. We believe that with these changes, the manuscript has enhanced its quality and clarify. Your kind consideration of this manuscript is highly appreciated.

Sincerely yours,

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