

Editor

World Journal of Gastroenterology

Minireview, manuscript number 65799: Impact of *Helicobacter pylori* infection on gut microbiota.

Dear editor,

Thank you very much for peer review on our manuscript.

We have revised the review according to the comments made by reviewers. Revised points are written in red.

Point-to point comments are as follows.

Kind regards,

Tadashi Shimoyama

Reviewer #1:

1. *H. pylori* infection is in the stomach, and antibiotics and PPIs also act on the stomach. Should the author investigate the changes in the composition and diversity of the gastric microbiota instead of the gut microbiota.

Reply: We agree with the relevance of this comment. However, most of the studies on the association between *H. pylori* infection and the microbiota have focused on the gastric microbiota and there are some reviews in the gastric microbiota. While smaller number of studies have investigated the gut microbiota harbored in the intestinal tract of the patients with *H. pylori* infection and there are few reviews for the influence of *H. pylori* infection on the microbiota in the intestinal tract. Therefore, in this mini-review, we focused on the associations between *H. pylori* infection and the microbiota in the intestinal tract.

2. As we all know, in addition to age, gender, BMI and virulence, diet is also a non-negligible factor affecting the microbiota.

Reply: As reviewer's comments, we added the sentences and references to indicate that diet is one of the factors affecting the microbiota.

3. In addition to CagA, VacA is also a factor affecting the virulence of *H. pylori*, and new insights suggest that VacA and CagA may counter-regulate each other to manipulate host cell responses. However, in the "The mechanisms of changes in gut microbiota induced by *H. pylori* infection" part, the author only discusses the CagA's effect on the gut microbiota is sufficient.

As reviewer's comment, VacA is an important factor, like CagA, affecting the virulence of *H. pylori*. We added the sentences about VacA in the "The mechanisms of changes in gut microbiota induced by *H. pylori* infection".

4. The name of the bacteria should be written in italics, please check the full text carefully.

Reply: As reviewer's comment, we corrected the name of the bacteria in italic form.

Science editor

(1) The title is too long, and it should be no more than 18 words;

Reply: The title of this manuscript is 8 words. We do not think the title is too long.

(2) The "Author Contributions" section is missing. Please provide the author contributions; and

Reply: We added the "Author Contributions" section.

(3) The column should be minireviews.

Reply: We changed the column to minireviews.