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PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 75187

Title: H 953 hypothetical protein overexpresses and localization as virulence factor from Helicobacter pylori during infection to gastric epithelium cells

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03818597
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Assistant Professor
Reviewer's Country/Territory: Iran
Author's Country/Territory: Mexico

Manuscript submission date: 2022-01-29
Reviewer chosen by: AI Technique
Reviewer accepted review: 2022-01-29 15:18
Reviewer performed review: 2022-01-29 20:33
Review time: 5 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

- The title was unclear, please revised it to be more informative. - please describe about characteristics and profile of virulence genes of H. pylori strain 26695. - the author should be discussed about prevalence and percentage of conserved domains of HP0953 between H. pylori or close-related taxa using in silico investigation i.e. Pfam server. - discuss about limitation of study. the evaluation of coexpression HP0953 as well as other virulence factor could be more interesting. In addition, the author could assessed pro-inflammatory response of AGS such as IL-8 when infected with HP0953 positive strain and its mutant strains.

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Reviewer's code: 05753119
Position: Peer Reviewer
Academic degree: BSc, MSc, PhD
Professional title: Doctor
Reviewer's Country/Territory: Turkey
Author's Country/Territory: Mexico

Manuscript submission date: 2022-01-29
Reviewer chosen by: Fei-Yan Lin
Reviewer accepted review: 2022-03-17 17:00
Reviewer performed review: 2022-03-18 18:38
Review time: 1 Day and 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Authors investigated the manuscript titled that "Localization and expression of HP0953, a hypothetical protein from Helicobacter pylori, and a putative virulence factor". Their findings are well reported and the methods were rigorous, and pretty accurate to back their conclusions that in their manuscript. I congratulate you for the good write up of this manuscript, however, you need to edit some points. My comments are below; Title is reflects the main subjects. Authors are aimed that to investigate the expression and localization of HP0953 during adhesion to an inert surface and AGS cells. Thus, abstract summarized and reflected description of work. -Literature and references are not enough. The authors need to go through their reference list and include mostly newer references (2022 also). -Similarity rate is 27% (high). If possible, it should reduce below 20%. - The manuscript should edit according to journal format. - The limitations should be in the discussion part. - Figures are good but image of Western Blot is bright maybe contrast can be edit. Then if you use quantification program for western blot (such as Image J.) you can calculate quantify protein bands from western blot. It is important point. The quantification will reflect the relative amounts as a ratio of each protein band relative to the lane's loading control. Thank you Best Regards, Dr. Duygu Kırkık

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Peer-review model: Single blind

Reviewer's code: 05754827
Position: Peer Reviewer
Academic degree: PhD

Professional title: Deputy Director

Reviewer's Country/Territory: China

Author's Country/Territory: Mexico

Manuscript submission date: 2022-01-29

Reviewer chosen by: Fei-Yan Lin

Reviewer accepted review: 2022-03-18 02:44

Reviewer performed review: 2022-03-29 07:29

Review time: 11 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is a very interesting study in which the authors describe the location of the protein is determined for the first time, inside and outside the bacterium.However, the manuscript is nicely written and presented but still, there are additional points for improving the overall quality of the manuscript. Here I suggest authors should address the following points before resubmitting the manuscript. 1.The order of the results may need to be adjusted and the article more logical. 2.In fig1, should the authors determine whether the control group was infected with 0h or uninfected? In the methods section the authors describe that "One bottle was used as control as its culture was not infected with the bacterial strain"; also, if Hp0953 is the genome of Hp, why the expression be detected in the AGS cell samples infected with 0h; it could not have Hp adhering to AGS cells at 0h, and if it is the Hp genome that was not eluted during the infection process, why would 0h be detected in the AGS cells? so is it appropriate to use this group as a control group? 3.as shown in Fig1 and fig5, mRNA levels are lower at 3h, why do the authors show the figure of infection at 3h not 12h in fig5, what is the authors' explanation for this?