

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 88359

Title: Identification of hub genes associated with Helicobacter pylori infection and type 2 diabetes mellitus: A pilot bioinformatics study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05393454

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2023-09-21

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-10-20 07:22

Reviewer performed review: 2023-10-30 13:42

Review time: 10 Days and 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

1. The English need improvement since there are some grammatical and syntax errors in the manuscript. For example, • in line number 56, the words “the less” may be as “less”; • in line number 71, “in immune” as “in the immune”; • in line number 72, “that H. pylori” as “H. pylori”; • in line number 140, “intersection” as “the intersection”; • in line number 224, “was expressed” as “were expressed”; • in line number 233, “was lower” as “were lower”; • in line number 249, “highest” as “the highest”; • in line number 295, “state in” as “state of”; • in line number 310, “to treat” as “treatment of”; • in line number 333, “may involve” as “may be involved”; • in line number 334, “experiment” as “the experiment”. The grammar mistakes which are not mentioned here are also to be checked and corrected properly. 2. There are some typing mistakes as well, and authors are advised to carefully proof-read the text. For example, • in line number 60, the words “control on” may be as “control in”; • in line number 93, “tissues samples” as “tissue samples”; • in line number 157, “bioinformatics based” as “bioinformatics-based”; • in line number 167, “ethnics” as “ethics”; • in line number 233, “H. pylori infected” as “H. pylori-infected”; • in line number 288, “factor alpha” as “factor-alpha”; • all over the

manuscript, “H. pylori associated” as “H. pylori-associated”; • in line number 306, “individual” as “individuals”; • in line number 313, “cell mediated” as “cell-mediated”. The typos not mentioned here are also to be checked and corrected properly. 3. Check the abbreviations throughout the manuscript and introduce the abbreviation when the full word appears the first time in the abstract and the remaining part of the manuscript (For example, Differentially expressed genes (DEGs), Gene Ontology (GO), protein-protein interaction (PPI), etc.). Make a word abbreviated in the article that is repeated at least three times in the text, not all words to be abbreviated. 4. The full form of the species should be given when the first time appears in both the abstract and in the remaining part of the manuscript and it should be followed by only the first letter of the genus (For example, *Helicobacter pylori* when the first time appear and followed by *H. pylori*). 5. The introduction part appears less informative about *Helicobacter pylori* and type 2 diabetes, thus this section should be indicated as detailed to understand the manuscript in clear since the main objectives is focused on *Helicobacter pylori* and type 2 diabetes. 6. The authors may cite recent prevalence or incidence data *Helicobacter pylori* and type 2 diabetes and it should be at-least of 2023 since the authors have cited only up to 2022. 7. The genus and species name should be italic all over the manuscript (*Helicobacter pylori* or *H. pylori*). 8. The table and figure legends should be improved and a proper footnote should be given. All legends should have enough description for a reader to understand the tables and figures without having to refer back to the main text of the manuscript. For example, the necessary abbreviations should be given (DEGs, HbA1c, etc.).

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Title: Identification of hub genes associated with Helicobacter pylori infection and type 2 diabetes mellitus: A pilot bioinformatics study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02941672

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-09-21

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-10-31 12:03

Reviewer performed review: 2023-11-04 09:31

Review time: 3 Days and 21 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors identified five hub genes that indicated that chronic inflammation caused by H. pylori infection is involved in diabetes mellitus by comprehensive analysis. It is interesting to note that all these genes correlate with immunity, including B cells, CD8+ T cells, macrophages, neutrophils and DCs. The results had been confirmed by RNA expression analysis in gastric tissue from H. pylori-infected diabetic patients. Further analysis of the detailed mechanism is needed using animal experiments in the future. Although there are issues such as small sample size as described in the paper, additional experiments or major modifications are not necessary.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Diabetes*

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Reviewer's code: 05393454

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2023-09-21

Reviewer chosen by: Cong Lin

Reviewer accepted review: 2023-11-24 05:06

Reviewer performed review: 2023-11-25 06:06

Review time: 1 Day and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

1. There are some grammatical, alignments and typographical errors are noted in the manuscript and it should be thoroughly checked and corrected throughout the manuscript. For example, the words "province hospital" may be as "Province Hospital"; "establishment of" as "the establishment of"; "between expression" as "between the expression"; "gene gene" as "gene-gene"; "postload" as "post load"; "t test" as "t-test"; "neutrophil mediated" as "neutrophil-mediated"; "heparin binding" as "heparin-binding"; "that expression" as "that the expression"; "19 downregulated" as "'19 were downregulated; "in development" as "in the development"; "in recognition" as "in the recognition"; "on KEGG" as "on the KEGG"; "formation of" as "the formation of"; "validated expression" as "validated the expression"; "to be coregulated" as "was coregulated"; "infection related" as "infection is related"; "T2DM remains" as "T2DM remain"; "In the future" as "In future"; "will investigating" as "will be investigating". 2. This suggestion is not carried out properly and it should be rectified (Check the abbreviations throughout the manuscript and introduce the abbreviation when the full word appears the first time in the abstract and the remaining part of the manuscript) For example, the authors used both forms alternatively for "Differentially expressed genes (DEGs)". This types of corrections need to be checked all over the manuscript. 3. This suggestion is not carried out properly and it should be rectified. The full form of the species should be given when the first time appears in both the abstract and in the remaining part of the manuscript and it should be followed by only the first letter of the genus (For example, *Helicobacter pylori* when the first time appear and followed by *H. pylori*). 4. This suggestion is not carried out properly and it should be rectified. The genus and species name should be italic all over the manuscript (*Helicobacter pylori* or

H. pylori) For example, in core tip it is not carried out and also the same should be checked all over the manuscript.

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Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2023-09-21

Reviewer chosen by: Cong Lin

Reviewer accepted review: 2023-11-23 10:35

Reviewer performed review: 2023-11-26 00:29

Review time: 2 Days and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

It has been appropriately amended and requires no further revision.