

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Diabetes*

**Manuscript NO:** 88549

**Title:** Comparative study of type 2 diabetes mellitus-associated gut microbiota between the Dai and Han populations

**Provenance and peer review:** Unsolicited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03490943

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Doctor, Postdoc

**Reviewer's Country/Territory:** Serbia

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-10-07

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-10-07 08:26

**Reviewer performed review:** 2023-10-15 16:46

**Review time:** 8 Days and 8 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 Grade E: Do not publish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

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 topic of manuscript is very interesting and obtained results are relevant. However, authors should address the following points: Isn't type 2 diabetes clinically characterized mainly by hyperglycemia? Please, clarify if the enrolled individuals with type 2 diabetes were newly diagnosed and drug-naïve Why adult control and type 2 diabetes individuals were not matched by age? If participants with type 2 diabetes were treated with antidiabetic drugs this should be reported as well, especially knowing these drugs may alter gut microbiota Discussion section consists mostly of a repetition of the obtained results; authors should put their results in the context of a previous knowledge in the studied area Some of the references are duplicated in the Reference list (e.g. 26 and 32) Once the abbreviations are defined, they should be used consistently throughout the text The whole manuscript requires light language polishing Table 1 is very busy and hard to follow; please, check the accuracy of data (e.g. total cholesterol among type 2 diabetes individuals in the Han population)

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**Reviewer's code:** 07734331

**Position:** Peer Reviewer

**Academic degree:** N/A

**Professional title:** N/A

**Reviewer's Country/Territory:** Iraq

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-10-07

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-10-07 22:00

**Reviewer performed review:** 2023-10-15 18:16

**Review time:** 7 Days and 20 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 type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input checked="" 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

<b>Scientific significance of the conclusion in this manuscript</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 authors have not been well explained if the participants were clearly informed of all the study procedures before signing the consent form, and whether the subjects have completed the Study Questionnaires so as to provide personal details and information about health, diet, smoking activity and lifestyle at the time of sample collection. 2- The authors have not been clarified whether this study was approved by the Ethics Committee of the University and what is the number of approvals. 3- There are many QC tests that can be used to evaluate performance, precision, and accuracy throughout the study. 4- The data seemed of good quality and had been validated using appropriate quality control methods. However, only very basic statistics were performed. More sophisticated techniques such as Analysis of Variance (ANOVA) and Principal Components Analysis (PCA) are required to elucidate the interactions in the data. 5- The authors have not explained the effect of gender, therefore the effect of other factors such as gender, food, and smoking activity requires investigations. 6- I suggest the title of article: Comparative study of type 2 diabetes-associated gut microbiota between the Dai and Han populations

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's Country/Territory:** Serbia

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-10-07

**Reviewer chosen by:** Jing-Jie Wang

**Reviewer accepted review:** 2023-10-25 04:02

**Reviewer performed review:** 2023-10-28 14:41

**Review time:** 3 Days and 10 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
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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" 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**

Unfortunately, in my opinion, authors did not invest sufficient effort to improve their manuscript based on suggestions provided by the reviewers.