PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 69536

Title: Gut microbiota-derived metabolites are novel targets for improving insulin resistance

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05225141

Position: Peer Reviewer

Academic degree: DVM, PhD

Professional title: Doctor

Reviewer's Country/Territory: United States

Author's Country/Territory: Brazil

Manuscript submission date: 2021-07-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-05 12:12

Reviewer performed review: 2021-07-10 12:35

Review time: 5 Days

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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

SPECIFIC COMMENTS TO AUTHORS

Based on a review paper published in World Journal of Diabetes recently, the authors wrote a letter to the editor. Overall, the letter mainly summarizes the context of the review and brings some studies that show the unbeneficial effect of gut microbiota-derived metabolites. However, the major concern is that the authors did not mention how to target these metabolites and the associated literature studies as the title shows the potential targets of treatment. In addition, there are some minors in this short letter. Minors: 1. Conflict of interest is needed; 2. Grammar errors, such as in abstract, Insulin resistance (IR) is a global pandemic metabolic disease that progress (> progresses) to type 2 diabetes mellitus., bacterial-derived metabolites, and so on; 3. Typo errors such as proprionate > propionate; 4. Abbreviation: STAT3. 5. Reference: World J Diabetes. 2021;12(6): 685-915. The page number looks not correct.

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish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) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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

SPECIFIC COMMENTS TO AUTHORS

There are some major points that have to be addressed   1. The aim of the paper is unclear, the message is not significant. 2. The core tip should be included in the main text. 3. Valid conclusions should be stated.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 69536

Title: Gut microbiota-derived metabolites are novel targets for improving insulin resistance

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03967085

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Assistant Professor, Chief Doctor

Reviewer's Country/Territory: Bulgaria

Author's Country/Territory: Brazil

Manuscript submission date: 2021-07-03

Reviewer chosen by: Chen-Chen Gao (Online Science Editor)

Reviewer accepted review: 2021-10-11 02:10

Reviewer performed review: 2021-10-11 22:37

Review time: 20 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) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous

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

SPECIFIC COMMENTS TO AUTHORS

This proposed letter to the editor is concise and comprehensive. The authors addressed all the issues raised by the referees from the last round of peer reviewing.