

PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 76055

Title: Gut microbiota interactions with anti-diabetic medications and pathogenesis of type 2 diabetes mellitus

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06259399

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Australia

Author's Country/Territory: United States

Manuscript submission date: 2022-03-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-01 20:08

Reviewer performed review: 2022-03-04 00:52

Review time: 2 Days and 4 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☐ Grade A: Priority publishing ☒ 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 ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No



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Peer-reviewer statements	Peer-Review: [☒] Anonymous [☐] Onymous Conflicts-of-Interest: [☐] Yes [☒] No
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SPECIFIC COMMENTS TO AUTHORS

As per attached document

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Manuscript NO: 76055

Title: Gut microbiota interactions with anti-diabetic medications and pathogenesis of type 2 diabetes mellitus

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04091933

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Senior Researcher

Reviewer's Country/Territory: Russia

Author's Country/Territory: United States

Manuscript submission date: 2022-03-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-01 13:48

Reviewer performed review: 2022-04-10 15:36

Review time: 9 Days and 1 Hour

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☒ Grade A: Priority publishing ☐ 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 ☐ Major revision ☐ Rejection
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SPECIFIC COMMENTS TO AUTHORS

The manuscript is very relevant and discusses the role of the gut microbiota in the pathogenesis of type 2 diabetes mellitus from the perspective of microbial metabolism and bacterial translocation. In addition, the interaction between the gut microbiota and various drugs used in the treatment of T2DM is discussed. The review is well written. The figures and table are well designed and reflect the main aspects of the review. Strong recommendations to the authors: to add references to table 1; to correct the statement "butyrate-producing bacteria such as *Akkermansia muciniphila*", since this bacterium does not produce butyrate, but propionate. Literary references are relevant, latest, without self-citation (<5%). The manuscript can be recommended for publication.