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PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 89196

Title: Update on the gut microbiome in health and diseases

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05491748

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-10-23

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2023-11-20 00:32

Reviewer performed review: 2023-11-20 03:15

Review time: 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 checked="" 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 type="checkbox"/> Grade B: Good <input checked="" 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 type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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
Re-review	<input type="checkbox"/> Yes <input checked="" 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

Dear Authors, As an editorial, the authors ought to discuss an important issue in this field with the aim of provoking substantive consideration throughout the field that will translate into a sustainable movement forward in its perspectives and practices. However, the current editorial draft is too broad and general and may not present a powerful argument on research directions and future prospects within the field of the gut microbiome in health and diseases. Several editorials and review papers have previously been published on these similar subjects (e.g. Afzaal M, Saeed F, Shah YA, Hussain M, Rabail R, Socol CT, Hassoun A, Pateiro M, Lorenzo JM, Rusu AV and Aadil RM (2022) Human gut microbiota in health and disease: Unveiling the relationship. *Front. Microbiol.* 13:999001. doi: 10.3389/fmicb.2022.999001; Wang, L., Wang, S., Zhang, Q. et al. The role of the gut microbiota in health and cardiovascular diseases. *Mol Biomed* 3, 30 (2022). doi.org/10.1186/s43556-022-00091-2; Gao Y, Li D, Liu YX. Microbiome research outlook: past, present, and future. *Protein Cell.* 2023;pwad031. doi:10.1093/procel/pwad031). In addition, some important academic terminologies were wrongly presented, for example, GPR 41 and 43 receptors, not GPCR 41.

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Peer-review model: Single blind

Reviewer's code: 00068182

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Professor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Italy

Manuscript submission date: 2023-10-23

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2023-11-26 12:09

Reviewer performed review: 2023-11-26 12:55

Review time: 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" 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 type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



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Re-review	<input type="checkbox"/> Yes <input checked="" 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

As a review, it is written broadly and is not very focused on a few issues. In addition, references and articles are poorly interconnected.