

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 91166

Title: Women health and microbiota: Different aspects of well-being

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05824612

Position: Peer Reviewer

Academic degree: PhD, PsyD

Professional title: Adjunct Professor, Assistant Lecturer, Reader in Health Technology Assessment, Research Assistant, Research Assistant Professor, Research Associate, Research Fellow, Research Scientist, Researcher, Science Editor, Statistician

Reviewer's Country/Territory: Iran

Author's Country/Territory: Italy

Manuscript submission date: 2023-12-23

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-12-24 07:09

Reviewer performed review: 2023-12-24 07:28

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 Grade E: Do not publish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 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 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 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The topic is fascinating, but a thorough restructuring of the content is necessary. I kindly request the esteemed author to revise the entire article with a deeper and more coherent perspective, taking into consideration the suggested changes. Afterward, please resubmit it for further review. I believe this feedback will be valuable in improving the quality of your work. Best regards.

1. The abstract succinctly summarizes the editorial content, focusing on the importance of understanding sex differences in gut microbiota and their implications for health. However, it might benefit from a more precise title that directly indicates the focus on sex differences in gut microbiota.
2. some paragraphs are quite lengthy, particularly the one starting with "In this editorial we comment on the article published by Marano et al[6]." Breaking this into smaller paragraphs could enhance readability.
3. In discussion it may be enhanced by including more specific examples or case studies to illustrate the points made, particularly in the discussion of



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the differences in gut microbiota between sexes. 4. there are instances where simpler language could be used for broader accessibility, especially for readers who might not be specialists in this field. For example, the sentence "In detail, the hormones are produced and secreted by commensal bacteria, and interactions between microorganisms and hormones can impact human behavior, immunity, and metabolism[5]" could be simplified for clarity. 5. Ensure consistency in terminology throughout the editorial. For instance, the terms "gut microbiota" and "intestinal microbiota" are used interchangeably. It would be beneficial to stick to one term for clarity. 6. While the editorial references a range of studies, including some as recent as 2014, it would be strengthened by the inclusion of the latest research findings in the field to ensure the information is up-to-date. 7. The conclusion effectively highlights the need for further research, particularly focusing on metabolites. It could be made more impactful by briefly mentioning potential applications of this research in clinical practice or public health. 8. The editorial interchangeably uses 'gender' and 'sex' in discussing microbiota differences. It's important to clarify these terms, as 'sex' refers to biological differences, while 'gender' encompasses the roles, behaviors, and identities that societies attribute to individuals. This distinction is crucial in scientific writing, especially in a topic sensitive to these differences.