

PEER-REVIEW REPORT

Name of journal: *World Journal of Hepatology*

Manuscript NO: 84673

Title: Gut Microbiome and Metabolic-associated Fatty Liver Disease (MAFLD): Current Status and Potential Applications

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03805231

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Adjunct Professor, Assistant Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2023-03-23

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-23 22:22

Reviewer performed review: 2023-04-23 23:26

Review time: 1 Hour

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in 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 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input 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

This is a very nice revision about new aspects regarding microbiota and NASH. Although there is little evidence regarding this theme, this review was able to address important topics. figures are of great quality. Review the format concerning subtitles and subsections of the manuscript, and also the conclusion (must have a subtitle line 8 (page 23) - the way to write MAFLD must be correct References: The references are up dated and representative, being 37% of the last 5 years. the format are not according the rules of WJG and must be reviewed

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Title: Gut Microbiome and Metabolic-associated Fatty Liver Disease (MAFLD): Current Status and Potential Applications

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03764379

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Director, Professor

Reviewer's Country/Territory: Argentina

Author's Country/Territory: China

Manuscript submission date: 2023-03-23

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-21 14:22

Reviewer performed review: 2023-04-28 16:05

Review time: 7 Days and 1 Hour

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
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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 review "Gut microbiome and MAFLD: current status and possible applications", ID: 05077820; by Fei Yao, Wei-peng Lu, Hao-ming Xu is a manuscript that presents the difficulty of deciding which is the proper publication site. This is because it is interesting, well-designed, up-to-date, well-referenced (#147), clear figures, and well-discussed. From this reviewer's point of view, this is an excellent book chapter (#22 pages from abstract to references). To be considered for publication in a journal, authors must focus on a few of the many subheadings submitted, such as "lipid disorders and GM" or "insulin resistance and GM," "hepatic and ethanol and GM pathophysiology," etc., but , is a basic, extensive description, which should be deepened further. For example, choline is a very interesting molecule, since it is only incorporated by the diet and by the synthesis of the gut microbiome. Diets deficient in choline and vit. B12 administered to weanling rats induces fatty liver and renal cortical necrosis with almost 100% deaths within 10 days. This pathophysiology should be presented and discussed. The authors overlooked this and other data, it is possible that it is due to the extensive information, which although it covers many topics, does not do so in depth.



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