



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 83637

Title: Effects of ethanol and sex on propionate metabolism evaluated via a faster 13C-propionate breath test in rats

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05372567

Position: Editorial Board

Academic degree: MD

Professional title: Assistant Professor, Surgeon, Surgical Oncologist

Reviewer’s Country/Territory: China

Author’s Country/Territory: Japan

Manuscript submission date: 2023-02-02

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-24 11:19

Reviewer performed review: 2023-02-26 01:03

Review time: 1 Day and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade B: Good <input 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 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 type="checkbox"/> Accept (General priority) <input checked="" 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

It is a well-written manuscript, in which the authors evaluated a faster 13C-propionate breath test (PBT) for assessing the effects of long-term ethanol consumption on propionate metabolism in ethanol-fed rats. Faster PBT showed that 16% ethanol consumption promotes propionate metabolism without inducing liver injury and may be used clinically to evaluate gut flora status. Some minor suggestions. 1. Novelty of the research could be discussed more in the discussion section. 2. English language needs to be revised.



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Peer-review model: Single blind

Reviewer's code: 02536288

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Research Scientist, Senior Lecturer

Reviewer's Country/Territory: Russia

Author's Country/Territory: Japan

Manuscript submission date: 2023-02-02

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-28 12:44

Reviewer performed review: 2023-02-28 13:29

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

Thank you for interesting manuscript. I have a few comments: 1. It is not very clear why propionate metabolism is associated with a deficiency of B12 only, when a large number of factors can affect the level of propionate 2. Additionally, it would be important to evaluate the composition of the gut microbiota as a factor that can change the level of propionate 3. It is unclear how long the rats took alcohol. If not for long, it is difficult to expect the effect of alcohol on ALT and B12 levels 4. It is not clear whether a C13 propionate breath test is eventually proposed to diagnose B12 deficiency or intestinal microbiota disorders 5. It is recommended to describe in detail of alcohol intake