



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 92318

Title: Targeted metabolomics study of fatty acid metabolism in lean metabolic-associated fatty liver disease patients

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 02446244

Position: Peer Reviewer

Academic degree: MD

Professional title: Research Fellow

Reviewer’s Country/Territory: Italy

Author’s Country/Territory: China

Manuscript submission date: 2024-01-22

Reviewer chosen by: Yu Bai

Reviewer accepted review: 2024-04-02 08:16

Reviewer performed review: 2024-04-05 13:23

Review time: 3 Days and 5 Hours

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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



Baishideng Publishing Group

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: office@baishideng.com
https://www.wjgnet.com

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 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

The paper is interesting and well structured. The data are clearly presented and discussed



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Peer-review model: Single blind

Reviewer's code: 02446061

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor, Research Scientist

Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2024-01-22

Reviewer chosen by: Yu Bai

Reviewer accepted review: 2024-04-07 20:23

Reviewer performed review: 2024-04-11 02:17

Review time: 3 Days and 5 Hours

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

The manuscript's content is interesting. I suggest edit introduction, discussion and conclusions for a clear,concise and accurate expression of the observed in your experiments. In fact, results indicated differences between the NAFLD and other patients, but also changes are in dependence of the studied fatty acid. These results could be relevant implications in clinical early diagnosis, treatment and follow-up of patients. A concise section of conclusions is desirable, since the final part of discussion section (in the current manuscript) seems unadequate as conclusions. the clear expresion of Limitations and prospective work is desirable. The entire manuscript requires proofreading to avoid grammar and punctuation mistakes. Please check what is the meaning or intention for expressing ($P < 0.001$, $P < 0.05$) as one of these could be adequate in each case. Also, authors MUST declare methods and Governamental or institutional authorization and laws for use of serum samples.



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Peer-review model: Single blind

Reviewer's code: 03259512

Position: Editorial Board

Academic degree: MSc, PhD

Professional title: Assistant Professor, Senior Researcher

Reviewer's Country/Territory: Australia

Author's Country/Territory: China

Manuscript submission date: 2024-01-22

Reviewer chosen by: Yu Bai

Reviewer accepted review: 2024-04-02 02:31

Reviewer performed review: 2024-04-12 01:26

Review time: 9 Days and 22 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 checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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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

The study found that metabolic profile of lean-type NAFLD patients was significantly different from that of healthy participants. Authors identified a total of 65 biomarkers, including palmitic acid, oleic acid, linoleic acid, and arachidonic acid that were marked by the most significant changes. The study provides guidance/biomarkers which can be used for the prevention and treatment of lean-type NAFLD. There are only minor points to address. 1. All used abbreviations should be deciphered first time in the text. Alternatively, a list of abbreviations should be included. 2. NAFLD is currently called MAFLD. Authors should indicate this change of definitions in the Introduction section and cite relevant refs. 3. Text should be checked, and it is necessary to add space after full stop. Example: lines 349, 355 etc. new paragraph should also start with space. 4. It would be good to draw a schematic signaling diagram , similar to this one <https://www.mdpi.com/2218-1989/12/11/1081>. Your diagram should include your findings and suggest the signaling targets.