



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Hepatology

**Manuscript NO:** 55050

**Title:** Lipidomics in non-alcoholic fatty liver disease

**Reviewer's code:** 00007076

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Director, Full Professor, Senior Scientist

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Greece

**Manuscript submission date:** 2020-02-28

**Reviewer chosen by:** Jin-Zhou Tang (Quit in 2020)

**Reviewer accepted review:** 2020-04-03 05:46

**Reviewer performed review:** 2020-04-04 09:00

**Review time:** 1 Day and 3 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

This is an interesting review article on an issue that is gaining attention in the translational research on NAFLD/NASH. The authors comprehensively revised the literature dealing with the role of lipids in the disorder and, most important, on the role of lipid quantity and moiety in determining the clinical course of fatty liver. Unfortunately, the different and conflicting data are described without critical interpretation making the article poorly perspective. I suggest substantially reduce the rather acritical description of what published (a good example is the section of glycerophospholipids) and expand the discordant observations among different series and most important, the lack of concordance with lipidomic in liver and plasma. This should be the main message of the review. The possible role of lipidomic as a diagnostic tool to discriminate different stages of fatty liver (NAFLD or NASH with different grading) must be expanded.



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Hepatology

**Manuscript NO:** 55050

**Title:** Lipidomics in non-alcoholic fatty liver disease

**Reviewer's code:** 02702057

**Position:** Peer Reviewer

**Academic degree:** BSc, MSc, PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Greece

**Manuscript submission date:** 2020-02-28

**Reviewer chosen by:** Xiao-Quan Yu

**Reviewer accepted review:** 2020-05-17 14:00

**Reviewer performed review:** 2020-05-17 17:53

**Review time:** 3 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Manuscript titled “Lipidomics in non-alcoholic fatty liver disease” deal an important issue of NAFLD. The purpose of this study was to summarize the findings of main human lipidomics studies in NAFLD and delineate the currently available information on pathogenetic role of each lipid class in lipotoxicity and disease progression. Based on the current literature this paper present new data to differentiate this study to others already present in the literature. The contents are very interesting and well written. Minor concerns should be solved before to accept it for publication. Please improve the introduction section. Please add a sentence regarding Fatty liver disease, nutrition and lifestyle: Please quote adequate reference as follow or other similar: Fatty liver disease and lifestyle in youngsters: diet, food intake frequency, exercise, sleep shortage and fashion. *Liver Int.* 2016 Mar;36(3):427-33. Nonalcoholic fatty liver disease (NAFLD) prevention: role of Mediterranean diet and physical activity. *Hepatobiliary Surg Nutr.* 2019 Apr;8(2):167-169. doi: 10.21037/hbsn.2018.12.05. Early effects of high-fat diet, extra-virgin olive oil and vitamin D in a sedentary rat model of non-alcoholic fatty liver disease. *Histol Histopathol.* 2018 Nov;33(11):1201-1213. 4Ps medicine of the fatty liver: the research model of predictive, preventive, personalized and participatory medicine-recommendations for facing obesity, fatty liver and fibrosis epidemics. *EPMA J.* 2014 Dec 7;5(1):21. In the conclusion section please add the scientific/clinical relevance of your work.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Hepatology

**Manuscript NO:** 55050

**Title:** Lipidomics in non-alcoholic fatty liver disease

**Reviewer's code:** 00007076

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Director, Full Professor, Senior Scientist

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Greece

**Manuscript submission date:** 2020-02-28

**Reviewer chosen by:** Ze-Mao Gong

**Reviewer accepted review:** 2020-06-08 06:09

**Reviewer performed review:** 2020-06-08 06:15

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	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 revised version is improved and all my critiques have been addressed.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Greece

**Manuscript submission date:** 2020-02-28

**Reviewer chosen by:** Ze-Mao Gong

**Reviewer accepted review:** 2020-06-08 07:26

**Reviewer performed review:** 2020-06-08 07:31

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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<b>Peer-reviewer statements</b>	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 now is acceptable for publication.