

## PEER-REVIEW REPORT

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

**Manuscript NO:** 53791

**Title:** Oxidative stress in alcohol-related liver disease

**Reviewer's code:** 02791493

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Professor

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

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2020-01-07

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-01-07 23:37

**Reviewer performed review:** 2020-01-14 09:38

**Review time:** 6 Days and 10 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 Grade E: Do not publish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 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
<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 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

## SPECIFIC COMMENTS TO AUTHORS



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This review article well covers alcohol-related liver diseases widely. So that the article will be beneficial for researchers who are out of the field or young investigators. Molecules belonging to “reactive oxygen species” or “free radicals” are in different categories, although some are overlapping. In this manuscript, “reactive oxygen species” rather than “free radicals” are better terminology. Minor issues. 1. Errors in spelling: for example, “P450 E21” to “P450 2E1” and “mitochrondrial” to “mitochondrial” in page 2, “litres” to “liters” in page 4., “peroxynitrate” to “peroxynitrite” in page 9, etc... 2. Words inside Fig. 2, Fig. 3 and Fig. 4 are too small to be read.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 53791

**Title:** Oxidative stress in alcohol-related liver disease

**Reviewer's code:** 03884035

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2020-01-07

**Reviewer chosen by:** AI Technique

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**Review time:** 6 Days and 22 Hours

<b>Scientific quality</b>	<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
<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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The manuscript is well written, with a simple and clear exposition of the topic. However, no original findings can be found in this manuscript right now. It is a detailed description of alcohol metabolism, but no specific session is dedicated to clinical relevant observations. In my opinion this paper should be modified as follows: - The authors should write a short “methods” chapter, where the sources of the search and the method of search can be found - the chapter “mitochondrial stress and metovhondrial adaptations to oxidative stress” should be part of the same chapter, which need to be consistently shortened, in order to avoid the loss of interest of the reader. - The chapter “cell signaling pathways” should be shortened as well. The figures are more interesting than the description itself in the text - The last four chapters “future perspectives”, “mitochondrial stress”, “trace elements” and “epigenetic regulation” should be changed, creating an appealing chapter where all the studies present in literature on the development of drugs (experimeted in animals or in human) should be collected, dividing the studies for topic (mitochondrial stress, trace elements etc). Even if there are no effective treatments for ALD, this point should be stressed with an extensive presentation of the literature findings. As now presented by the authors, these four chapter don’t give any information. In the manuscript several studies are cited in the first four chapters after introduction, but they need to be collected in order to create a focus for the reader