

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 79636

Title: Molecular mechanisms implicated in SARS-CoV-2 liver tropism

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05687852

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor, Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: Argentina

Manuscript submission date: 2022-09-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-09 01:44

Reviewer performed review: 2022-09-16 12:42

Review time: 7 Days and 10 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 Grade E: Do not publish
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The author emphasized the current pathways regarded as contributing to the gastrointestinal and hepatic ailments linked to COVID-19 infected patients due to an imbalanced interaction among the liver, systemic inflammation, disrupted coagulation, and the lung. Albeit, the author provides insight into COVID-19 related field, I still have some suggestions. 1, All figures are highly professional, and the authors should guide the readers to the meaning of the images appropriately; otherwise, it is likely to cause misunderstandings. Therefore, I suggest that the author consider revising the figure legends again. 2, In Fig 1, the author discussed the mechanisms of pathological injury upon SARS-CoV-2 infection. It would be fascinating to discuss the correlation between cancer and coronaviruses, such as SARS, or MERS...etc. (PMID: 32416633, 32615317, 32345594, 35639708, 33918958). 3, There are few typo issues for the authors to pay attention. Please unify the writing of scientific terms. "Italic, capital" ? make it consistent throughout the whole manuscript. For example, Page4, ...and 31 out of 45 post-mortem liver tissues contained the SARS-CoV-2 "RNA geome[25]". Please correct "RNA geome" as "RNA genome".

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Reviewer's code: 06111120

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Research Assistant

Reviewer's Country/Territory: Iran

Author's Country/Territory: Argentina

Manuscript submission date: 2022-09-05

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-10-19 12:19

Reviewer performed review: 2022-10-31 14:29

Review time: 12 Days and 2 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is a scoping review suggesting that liver involvement by the SARS-CoV-2 infection is associated with a high rate of morbidity and mortality. The article is well-written and relevant. It can be published; however, I have two minor issues that need to be addressed: 1. Please provide the search strategy for study selection. 2. Please remove “figure 1” in your conclusion. Please reference the figures in the main text and not in the conclusion.