

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 80548

Title: Iron as a therapeutic target in chronic liver disease

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06292600

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2022-10-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-04 15:13

Reviewer performed review: 2022-10-12 10:54

Review time: 7 Days and 19 Hours

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="radio"/> Yes <input type="radio"/> No Does this manuscript have important novelty? <input checked="" type="radio"/> Yes <input type="radio"/> No Does this manuscript have important creativity or innovation? <input checked="" type="radio"/> Yes <input type="radio"/> No Does this manuscript use reliable research methods?

	<input type="checkbox"/> [41] Yes <input type="checkbox"/> [40] No Are the manuscript-accompanying data and figures authentic? <input type="checkbox"/> [51] Yes <input type="checkbox"/> [50] No Does this manuscript make scientifically significant conclusions? <input type="checkbox"/> [61] Yes <input type="checkbox"/> [60] No
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 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

In this review, the author introduces the development history of iron death, combs the mechanism of iron death in liver diseases, and puts forward unique views on the future prospects of iron death in the treatment of liver diseases. I think this review is very interesting, because iron death, as a hot research field, has great prospects for clinical transformation, and liver disease is a very important disease, so this paper has high practical value. However, there are still some parts that need to be modified. Question 1: When elaborating the regulatory mechanism of endogenous and exogenous regulators on ferroptosis, the author should further discuss the two main pathways that cause ferroptosis: "exogenous/transporter dependent pathway" and "endogenous/enzyme regulated pathway". Question 2: If the key steps of GelNB synthesis process are highlighted, especially the steps to achieve the strong adhesion of the material, the article will have more reference value. The authors are suggested to modify as appropriate.

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Peer-review model: Single blind

Reviewer's code: 05402718

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor, Research Associate

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2022-10-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-13 03:08

Reviewer performed review: 2022-10-21 08:32

Review time: 8 Days and 5 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
Judgment by peer reviewers	Does this manuscript meet the code of ethics standards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important novelty? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript have important creativity or innovation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Does this manuscript use reliable research methods?

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Conclusion	<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
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 “iron as a therapeutic target in chronic liver diseases”. It is interesting, but there are some comments for the authors. 1. This is the brief review, however, I am not sure whether it is necessary over 500 references. 2. The structure of the review is not regular, no abstract is presented. 3. I want to know the detail of Ischemia-reperfusion injury (IRI), are they liver diseases. 4. Whether the authors can further describe sickle cell liver disease (SCD). 5. Covid-19 part can be deleted. 6. “It is well documented, that iron in the liver is a double-edged sword.” Actually, I think authors can add the section for the challenges of iron in the liver diseases. 7. Table 1 is too easy. 8. How to classify so many liver diseases.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 05402718

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor, Research Associate

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2022-10-02

Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2022-12-03 08:11

Reviewer performed review: 2022-12-07 10:41

Review time: 4 Days and 2 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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

Over 500 references , which is not common.