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## PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 82092

Title: Ferroptosis inhibition attenuates inflammatory response in mice with acute

hypertriglyceridemic pancreatitis

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05118373 Position: Peer Reviewer Academic degree: MD

**Professional title:** Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-06 01:46

**Reviewer performed review: 2022-12-14** 16:50

**Review time:** 8 Days and 15 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ Y] Grade D: Fair [ ] Grade E: Do not publish	
Language quality	[ ] Grade A: Priority publishing [ Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ Y] Major revision [ ] Rejection	
Re-review	[Y]Yes [ ]No	



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Peer-reviewer	Peer-Review: [ ] Anonymous [Y] Onymous	
statements	Conflicts-of-Interest: [ ] Yes [ Y] No	

In this straightforward study, the authors indicated that ferroptosis is involved in the

## SPECIFIC COMMENTS TO AUTHORS

process of hypertriglyceridemic pancreatitis (HTGP) and that NOX2 is a key point in the regulation of ferroptosis. However, there are some important issues that detract from the manuscript's overall impact. 1. The materials and methods section doesn't describe clearly in Animal model processing and treatment. - The weight changes of experimental animals should also be described. - Any mortality or other exclusions should be fully documented. This should include a description of the procedure for replacing any animals that might have been lost from a group during the prolonged survival intervals. - It still should indicate the animal numbers used in each Figure. - There is lack of rational for using the protocols of P-407 and caerulein treatment. Are those treatment based on pilot experiments or previous reports? 2. The bioinformatics tools that have been used for the proteome sequencing analysis. The produced raw data should also be outlined and compared with other already published references. 3. How about the changes of TG、TC and a-AMY between P-407 group and P-407+CAE group in Figure 1? 4. The quantification criteria by HE images (Figure 1, Figure 4 and Figure 5) were assessed should be clearly stated. 5. It was confused with the groups shown in Figure 3 (A and B) and Figure 5 (B and D). The four groups in each diagram should be clearly arranged. 6. The authors indicates that X-ct is SLC7A11 (line 443), and the protein names should be consistent with the manuscript, Figure and legends. 7. It is difficult to estimate the changes of X-ct and GPS4 without statistical graphs of X-ct and GPX4. In addition, only the IHC of X-ct, GPX4 and MDA content could not draw a convincing conclusion that HTGP specifically induces mouse pancreatic ferroptosis. 8. There are



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some grammatical and syntax errors in the manuscript, and should need more editing from this point of view.



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Reviewer's code: 06481804 Position: Peer Reviewer Academic degree: MD

**Professional title:** Doctor

Reviewer's Country/Territory: Australia

Author's Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-05 07:05

Reviewer performed review: 2023-01-15 19:01

**Review time:** 10 Days and 11 Hours

[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C:
Good
[ ] Grade D: Fair [ ] Grade E: Do not publish
[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair
[ ] Grade D: No creativity or innovation



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Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y]Yes []No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous  Conflicts-of-Interest: [ ] Yes [Y] No

### SPECIFIC COMMENTS TO AUTHORS

This study by Meng et al. has investigated the role of ferroptosis in hypertriglyceridemic pancreatitis (HTGP ) and showed that inhibition ferroptosis using Fer-1 attenuate inflammatory and serum MDA level and consequently decrease organ injury in mice. Authors also demonstrate that NOX2 axis modulate initiation of ferroptosis and subsequent the pathological consequences in multiple organ dysfunction. Pathological injury on multiple organs of mice with HTGP diminishes NOX2 inhibitor administration. Hypertriglyceridemic pancreatitis is poorly treated in clinic and the incidence rate alarmingly increase worldwide. There is badly need of insight which may reveal new therapeutic approaches and therefore this is an area of research importance. The data is adequate, well organized, and convincing. There are a few comments/suggestions from the reviewer to improve the study further. Specific comments are listed below 1. Although the data is sufficient to support the conclusions, the logic and readability of the manuscript is suffered by terminology usage and inadequate data description. I would suggest expanding some of the text in the result section. 2. Authors assessed injury of pancreas, lung, and kidney following



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P407+CAE administration. As liver is a key organ in regulating lipid metabolism. It will be helpful to examine the effect of P407+CAE administration liver function and insulin resistance. 3. How does the proteomic analysis performed, there is no information in method part. What was the data base used to identify the protein? Using proteomic data (in figure 2), authors showed that ferroptosis is a key biological process differentially regulated in pair-wise comparisons of 'AP vs WT' and 'HTGP vs AP'. However, there is luck of information regarding number and identity of ferroptosis -related protein in the study. 4. There is no information indicated on the Volcano plot (Fig 2D), where does NOS2 sit on the volcano plot. What are other proteins upregulated and downregulated. 5. Hypertriglyceridemic pancreatitis (HTGP) and P407+CAE used interchangeably, should be conspicuously used, otherwise, it may cause misunderstanding. Minor comments (words used improperly) - Line 83, word "predict" - Line 128, word "screening" - Line 179, "proteome sequencing", suggestion proteomic profiling - Line 207, "rebounded" - Line 308, "significant evidence" - Line 443, "Calculation"