

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 88496

Title: Nicotinamide adenine dinucleotide phosphate oxidase in pancreatic diseases:
Mechanisms and future perspectives

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00572759

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2023-09-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-09-28 00:20

Reviewer performed review: 2023-10-07 13:01

Review time: 9 Days and 12 Hours

Scientific quality	<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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 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

Pancreatitis and PC, the most concerned diseases of pancreas, are closely related with aberrant redox homeostasis. Nicotinamide adenine dinucleotide phosphate hydrogen oxidase (NOX) produces cellular ROS and exerts oxidative stress and deregulates the redox homeostasis, and thus participates in the development of both pancreatitis and PC. In this review, Bi et al. summarize the potential roles and mechanisms of NOX in pancreatic disorders and bring some novel insights into exploring the mechanisms for the diseases. Overall, this manuscript was very interesting and provided a summary of recent research on NADPH oxidase in Pancreatic Diseases. However, there are too many writing errors and grammar errors throughout the manuscript, for example: Lack of related references, such as Potential role of NADPH oxidase in pathogenesis of pancreatitis, World J Gastrointest Pathophysiol. 2014 Aug 15; 5(3): 169-177. Lack of page number in the references. [5] Vermot A, Petit-Härtlein I, Smith SME, Fieschi F. NADPH Oxidases (NOX): An Overview from Discovery, Molecular Mechanisms to Physiology and Pathology. Antioxidants (Basel). 2021; 10: . References 19-20, 89,93 and 109 have same problems. Lack of the detail figure legend of Figures 1 and 2, such as all



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the related abbreviations, pathway and so on In the abstract, grammar error, Inconsistent verb tense: Nicotinamide adenine dinucleotide phosphate hydrogen oxidase (NOX) is the major source of cellular ROS which exerts oxidative stress and deregulate the redox homeostasis. “deregulate” should change to “deregulates” . Other places in the manuscript have other similar problems, please check them carefully. Other errors please the uploaded file.

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Reviewer's code: 05620806

Position: Peer Reviewer

Academic degree: BSc, MSc, PhD

Professional title: Postdoctoral Fellow

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2023-09-26

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2023-11-28 08:40

Reviewer performed review: 2023-11-29 05:21

Review time: 20 Hours

Scientific quality	<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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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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 manuscript titled ‘The Role of NADPH oxidase in Pancreatic Diseases: Mechanisms and Future Perspectives’ provides a summarized account of the potential roles and mechanisms of NOX in pancreatic disorders. While the manuscript presents a valuable contribution to the field there are several shortcomings and areas for improvement that should be addressed. With some revisions and additional details, it can be even more informative and impactful. Here are some specific comments and suggestions: 1. Consider breaking down the content into more subsections for better organization. This can make it easier for readers to navigate through different aspects of your review, such as NOX in Acute Pancreatitis, Chronic Pancreatitis, and Pancreatic Cancer. 2. The abstract is comprehensive, but it might benefit from a concise statement about the significance of your review. Why is understanding NOX in pancreatitis and pancreatic cancer crucial for future research and treatment? 3. In the introduction, you might want to briefly mention the structure of the review to provide readers with an overview of what to expect. Provide a more explicit statement of the objective of your review. Clearly state what knowledge gap or question you aim to address through the review. 4. It could



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be beneficial to include figures or diagrams to visually represent some of the complex processes and relationships you're describing. For example, a figure summarizing the roles of NOX in different cell types in pancreatitis and pancreatic cancer could enhance understanding. 5. Some sentences are quite complex. Consider breaking them down into shorter sentences for clarity. For example, in the Abstract, the sentence starting with "Pancreatitis and PC are closely related..." is quite lengthy. 6. When discussing the mechanism of NOX, try to delve deeper into the molecular details. For instance, specify which isoforms of NOX are predominant in specific cells or conditions. 7. While your review is comprehensive, make sure that you're providing enough background and explanations for readers who may not be experts in the field. 8. In your conclusion, you may want to highlight the potential implications of understanding NOX in pancreatitis and pancreatic cancer. What are the potential therapeutic avenues? Any ongoing research or future directions? In the conclusion, you've mentioned the need for further studies. Expand on this by suggesting specific areas that need more investigation. What are the critical questions that future research should aim to answer?

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 05620806

Position: Peer Reviewer

Academic degree: BSc, MSc, PhD

Professional title: Postdoctoral Fellow

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2023-09-26

Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2023-12-19 06:40

Reviewer performed review: 2023-12-20 01:52

Review time: 19 Hours

Scientific quality	<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
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	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The authors have modified the manuscript as per the suggestions provided in the initial review. I am happy with the revisions, barring some syntax and grammatical errors that should be corrected.