

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 80776

Title: Pancreatic β -cell dysfunction in type 2 diabetes: Implications of inflammation and oxidative stress

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06323682

Position: Peer Reviewer

Academic degree: N/A

Professional title: N/A

Reviewer's Country/Territory: India

Author's Country/Territory: South Africa

Manuscript submission date: 2022-10-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-12 14:13

Reviewer performed review: 2022-10-21 08:15

Review time: 8 Days and 18 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 Grade E: Do not publish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 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="radio"/>] Anonymous [<input type="radio"/>] Onymous
	Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No

SPECIFIC COMMENTS TO AUTHORS

In the current review Authors focused on "β-cell dysfunction in type 2 diabetes: Implications of inflammation and oxidative stress". Authors nicely narrated about the content. However, I have few queries in the present review. Molecular mechanisms related to Oxidative stress and inflammation is well known in type 2 diabetes. I think novelty of the present content is missing. Authors may provide the clinical information related clinical studies explain the Inflammation and oxidative stress makers in table form (clinical studies published on oxidative and inflammatory markers association with the b-cell dysfunction in type 2 diabetes patients). Acknowledgement: it need to be correct "All author authors" Gut microbiota and pancreatic β-cell dysfunction in type 2 diabetes. In this section authors should fill the gaps between Gut microbiome- beta dysfunction- Inflammation. I feel that there is much space to contact this in the article or Authors may remove the this part because it is diverting from the title.

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Peer-review model: Single blind

Reviewer's code: 03460306

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: South Africa

Manuscript submission date: 2022-10-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-10-22 08:29

Reviewer performed review: 2022-10-22 10:42

Review time: 2 Hours

Scientific quality	<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
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 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

This is a review article regarding the implications of inflammation and oxidative stress on pancreatic beta cell dysfunction in T2D. The manuscript was easy to follow. However, there are several comments. 1. Literature search criteria and selection flow should be described in the manuscript. 2. The evidences in animal models and those in human studies are mixed in each section. They should be clearly distinguished and separately described. 3. The section regarding microbiota is too short and superficial. The link between microbiota and pancreatic islet inflammation should be more precisely described. 4. In figure 2, the expression “type 1 diabetes/type 2 diabetes” is very confusing. The similarities and differences between T1D and T2D should be more clearly described. 5. Clinical relevance should be described. Please mention on the role of anti-oxidants and anti-diabetic agents in treatment of T2D. 6. Overall, the contents are not novel. The authors should describe the novelty of this review in the abstract and introduction.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 03460306

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: Japan

Author's Country/Territory: South Africa

Manuscript submission date: 2022-10-12

Reviewer chosen by: Jing-Jie Wang

Reviewer accepted review: 2022-12-03 05:41

Reviewer performed review: 2022-12-03 06:02

Review time: 1 Hour

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 responded to the comments properly.