

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 83548

Title: Advanced Glycation End Products: Key Mediator and Therapeutic Target of Cardiovascular Complications in Diabetes

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02459759

Position: Associate Editor

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2023-01-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-30 07:35

Reviewer performed review: 2023-02-10 13:03

Review time: 11 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 Grade E: Do not publish
Novelty of this manuscript	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 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

The manuscript Advanced Glycation End Products: Key Mediator and Therapeutic Target of Cardiovascular Complications in Diabetes expounded the influence of AGEs on diabetic cardiovascular complications. The paper were logically reasonable in structure. While there still have some insufficient issues: 1.the first two parts should be simplified to better highlight the theme. In addition, epidemiological data shown in the paper should be updated. More clinical researches should be included for discussion, to compare the impact on AGEs associated CVD complications among different hypoglycemic scheme.

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Peer-review model: Single blind

Reviewer's code: 00504362

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Chile

Author's Country/Territory: India

Manuscript submission date: 2023-01-29

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-02-17 21:53

Reviewer performed review: 2023-02-25 13:06

Review time: 7 Days and 15 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 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 an interesting and manuscript but this reviewer has some concerns. 1.-One of the first action described for AGEs in regards to nitric oxide was its nitric oxide quenching capacity. This activity must be included and discussed in the text. 2.-This reviewer missed a more extensive discussion on the effect of AGEs on smooth muscle cells, which are also crucial in CVD. There are many compelling pieces of evidence supporting the role of AGEs on Smooth Muscle Cell contractile phenotype and functions as well as on transdifferentiation to a macrophage-like state, calcification, and so on. 3.-In regard to the RAGE inhibitors FPS-ZM1, authors must state that this inhibitor, as described by all suppliers as well as in the patent covering its activity, the inhibition capacity is described only fo against A β 40, HMGB1 & S100B. and the topic as stated in the title of this manuscript is limited to the effect of AGEs .

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 83548

Title: Advanced Glycation End Products: Key Mediator and Therapeutic Target of Cardiovascular Complications in Diabetes

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Reviewer's code: 00504362

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Chile

Author's Country/Territory: India

Manuscript submission date: 2023-01-29

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2023-03-31 18:56

Reviewer performed review: 2023-03-31 19:02

Review time: 1 Hour

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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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 fulfilled all comments and suggestions