

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 87566

Title: Recent therapeutic targets for the prevention and management of diabetic complications

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02894577

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Chief Physician, Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: South Africa

Manuscript submission date: 2023-08-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-08-17 06:16

Reviewer performed review: 2023-08-18 23:40

Review time: 1 Day and 17 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Excellent <input 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 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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input 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

Islam et al. provided a comprehensive overview of recent therapeutic targets for the prevention and management of diabetic complications. The editorial covers a range of potential approaches, from oxidative stress reduction to the targeting of specific molecular pathways and epigenetic factors. Here are some comments and suggestions that may help further improve the editorial: Introduction: Begin the editorial with a concise introduction that highlights the significance of diabetic complications and the need for novel therapeutic approaches. The authors could also briefly mention the challenges associated with managing hyperglycemia and the high prevalence of diabetic complications. When discussing therapeutic targets like SIRT1 and FOXOs, provide a bit more detail about how they function and interact with other molecules or pathways. This will help readers understand the rationale behind targeting these molecules for diabetic complication management. In the conclusion, the authors mention looking forward to the outcomes of these studies and their translation into clinical practice. Expand on this point by discussing potential challenges and considerations for translating these findings into real-world treatments. Consider adding a section that

outlines potential future directions in this field of research. Are there any emerging technologies, methodologies, or collaborations that could significantly impact the development of these therapeutic strategies?

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Reviewer's code: 05089997

Position: Editorial Board

Academic degree: Doctor, MD, PhD

Professional title: Consultant Physician-Scientist, Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: South Africa

Manuscript submission date: 2023-08-16

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-20 07:15

Reviewer performed review: 2023-08-22 05:18

Review time: 1 Day and 22 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 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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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 editorial presents the recent therapeutic targets used in diabetic complications. The article is well-written and requires minor grammar revisions. I also recommend updating some of the bibliographic sources used. • R42: You could add some new publications to the topic of oxidative stress and diabetes complications such as: (Darenskaya MA, Kolesnikova LI, Kolesnikov SI. Oxidative Stress: Pathogenetic Role in Diabetes Mellitus and Its Complications and Therapeutic Approaches to Correction. Bull Exp Biol Med. 2021 May;171(2):179-189. doi: 10.1007/s10517-021-05191-7) • R47: Regarding the role of curcumin in diabetic complications, search for recent publications such as: (Tang C, Liu Y, Liu S, Yang C, Chen L, Tang F, Wang F, Zhan L, Deng H, Zhou W, Lin Y, Yuan X. Curcumin and Its Analogs as Potential Epigenetic Modulators: Prevention of Diabetes and Its Complications. Pharmacology. 2022;107(1-2):1-13) • R93 provide the year of the publication