



PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 79357

Title: miR-124 is upregulated in diabetic mice and inhibits proliferation and promotes apoptosis of high-glucose-induced β -cells by targeting EZH2

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06269450

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-08-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-08-18 07:43

Reviewer performed review: 2022-08-28 14:47

Review time: 10 Days and 7 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 Grade E: Do not publish
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



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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 original findings of this manuscript is that miR-124 is highly expressed in diabetic mice and HG-induced Min6 cell, miR-124 regulates insulin secretion, proliferation and apoptosis of islet β cells by targeting EZH2. The study used HE staining、Immunohistochemistry、Cell culture、ELISA、Flow cytometry、RT-qPCR、Western blot、Double luciferase reporter assay to verify their hypotheses. The title reflect the main hypothesis of the manuscript. The abstract and key words summarize and reflect the work. The background of this manuscript adequately describe the present status and describe methods in adequate detail. The research objectives achieved by the experiments used in this study. The discussion of this manuscript interpret the findings adequately and appropriately, but the limitations of the study should be more fully discussed.



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Reviewer's code: 05820295

Position: Peer Reviewer

Academic degree: MBBS

Professional title: Doctor, Research Scientist

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2022-08-17

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-11-29 12:12

Reviewer performed review: 2022-12-07 15:43

Review time: 8 Days and 3 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
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SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "miR-124 was upregulated in diabetic mice and inhibited proliferation and promote apoptosis of high glucose-induced β -cells by targeting EZH2" is a preclinical study that explores targeting of miR-124 and enhancer of zeste homolog 2 (EZH2) in pancreatic tissues of diabetic mice to inhibit apoptosis of the β -cells of pancreas. The overall comments to the authors is as follows: 1) What is the reference for using a Streptozotocin dose of 45 mg/kg to induce type-2 diabetes mellitus? 2) The authors considered a FBG above 16.7 mmol/L (300 mg/dL) as a cutoff for T2DM. This cutoff seems to be too high. Overall the results are extremely insightful and must be considered for publication.