

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Diabetes*

**Manuscript NO:** 77417

**Title:** Role of insulin in pancreatic microcirculatory oxygen profile and bioenergetics

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03547306

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Serbia

**Author's Country/Territory:** China

**Manuscript submission date:** 2022-04-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-04-29 08:43

**Reviewer performed review:** 2022-04-29 08:52

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	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

very nice

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**Peer-review model:** Single blind

**Reviewer's code:** 05086394

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor, Research Scientist

**Reviewer's Country/Territory:** Mexico

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**Review time:** 10 Days and 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
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<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

**statements**Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No**SPECIFIC COMMENTS TO AUTHORS**

This manuscript is interesting to explain the mechanism of deleterious effect of diabetes in an animal model and restoration of function for insulin. Results are relevant so, some issues need to be clearer. Since the sample size is small (three animals per group), which was the efficiency of STZ to induce diabetes at that concentration? There was animal replacement? Which are advantages of this animal model of diabetes induction respecting others? Which were the main limitations of this study?

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**Reviewer's code:** 06293751

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**Reviewer's Country/Territory:** Qatar

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**Review time:** 13 Days and 15 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
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<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

#### **SPECIFIC COMMENTS TO AUTHORS**

In the present manuscript entitled “Role of insulin in pancreatic microcirculatory oxygen profile and bioenergetics” the authors investigated how insulin administration could improve integrated pancreatic microcirculatory oxygen profile and bioenergetics and found that glucotoxicity induced deterioration of pancreatic microcirculatory oxygen profile and bioenergetics is restored by insulin. This is an interesting study, and most of the methodology used is well described and the findings can offer considerable contribution in the field. Nevertheless I have few concerns with the manuscript in its current form: 1. there are some typo mistakes through the manuscript. Please read and correct them 2. The number of mice per group (n=3) is very small for a powerful statistics. 3. the amount of insulin administrated in both in vivo and in vitro models should be referenced.