

## PEER-REVIEW REPORT

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

**Manuscript NO:** 80299

**Title:** Insulin: A connection between pancreatic  $\beta$  cells and the hypothalamus

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

**Peer-review model:** Single blind

**Reviewer's code:** 03830173

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Doctor

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

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

**Manuscript submission date:** 2022-10-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-20 10:21

**Reviewer performed review:** 2022-10-21 11:19

**Review time:** 1 Day

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 Grade E: Do not publish
Novelty of this manuscript	<input 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 type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

Dear Authors, you have made a rather extensive narrative. Many of the text (f.e. description of pancereatic anatomy and size..) is unnecessary for the WJD audience. On the other hand, the antioxidants you suggest are important new compaunds in the treatment/prevention of chronic insulin-dysfunction disorders you only briefly mention.. moreover, there are plethora of new agents with proven benefits for diabetic patients (GLP-1RA, other incretins, SGLT-2i) which you ommited, and might all exert pleiotrophic effects by acting on antioxidative and antiinflammatory pathways...

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**Reviewer's code:** 05249683

**Position:** Editorial Board

**Academic degree:** BSc, MSc, PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2022-10-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-10-28 14:34

**Reviewer performed review:** 2022-11-05 16:47

**Review time:** 8 Days and 2 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 type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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

Major: The title, abstract, and introduction of the manuscript are all strong. For scientists who are interested in the topic, the content is helpful. The abbreviations have a problem. The authors have to insert a section of abbreviations in their article. It is very confusing that both insulin resistance and insulin receptor are referred to as IR. The quality of some figures, particularly Figure 4, needs to be improved. The figure legend needs to define the significant abbreviations. Minor: Kindly use a superscript 2+ for Ca<sup>2+</sup>. Additionally, write Zn<sup>++</sup> as Zn<sup>2+</sup> with a superscript 2+.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Position:** Editorial Board

**Academic degree:** BSc, MSc, PhD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2022-10-06

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2022-12-15 09:39

**Reviewer performed review:** 2022-12-15 09:47

**Review time:** 1 Hour

<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
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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## **SPECIFIC COMMENTS TO AUTHORS**

No more comments