

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 80299

Title: Insulin: A connection between pancreatic β 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 Grade E: Do not publish
Language quality	<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
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

statements

Conflicts-of-Interest: [] Yes [Y] 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
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statements

Conflicts-of-Interest: [] Yes [Y] 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 Ca²⁺. Additionally, write Zn⁺⁺ as Zn²⁺ with a superscript 2+.