

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 89679

Title: Novel insights into immune-related genes associated with type 2 diabetes mellitus-related cognitive impairment

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02446061

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor, Research Scientist

Reviewer's Country/Territory: Mexico

Author's Country/Territory: China

Manuscript submission date: 2023-11-11

Reviewer chosen by: Huo Liu

Reviewer accepted review: 2023-12-31 00:05

Reviewer performed review: 2024-01-11 02:01

Review time: 11 Days and 1 Hour

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 Grade E: Do not publish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
Creativity or innovation 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 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 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
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 manuscript content is interesting and the methodology seems to be adequate. Some details should be corrected to improve presentation. a) Introduction could be centered just in those points related to approach. Other sentences could be moved to discussion section. b) Discussion section should be enriched. Particularly, the 11 drugs identified as potential to act in the reported gens-proteins should be discussed as they could be acting. As an example: valproic acid is clearly an antiseizure agent, but multiple reports suggest action in neurodegeneration, while some structurally-related compounds are active in metabolism and neurons. c) Figures caption should be edited to improve readers' understanding whitout read the entire manuscript. Some of them just describe in a general way that presented in each panel. d) In table of compounds, the information in the last -on right- column should be checked and supported by specific references. Some compounds have more than one (or contrary) actions supported by recent literature.