

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 89856

Title: KAT7/HMGN1 signaling epigenetically induces tyrosine phosphorylation-regulated kinase 1A (DYRK1A) expression to ameliorate insulin resistance in Alzheimer's disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07916263

Position: Peer Reviewer

Academic degree: PhD

Professional title: Doctor, Research Associate

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2023-11-30

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-12-05 08:54

Reviewer performed review: 2023-12-15 06:08

Review time: 9 Days and 21 Hours

Scientific quality	<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 Grade E: Do not publish
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 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
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

Increasing number of epidemiological studies have shown a strong association between Alzheimer's disease and type 2 diabetes mellitus, in which insulin resistance is a common and critical pathological feature. However, the pathological mechanisms underlying the correlation between insulin resistance and Alzheimer's disease remains unclear. In this study, the authors determine the effects of KAT7 on insulin resistance in Alzheimer's disease. The study is well designed and the results are interesting. A minor revision is required. Comments: 1. The manuscript should be edited. Some minor language polishing should be corrected. 2. Images should be checked and improved. 3. Please update the reference list.