PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 74779

Title: The role of high mobility group box protein 1 (HMGB1) in depression: A mechanistic and therapeutic perspective

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06181567

Position: Peer Reviewer

Academic degree: MSc

Professional title: Academic Research, Lecturer

Reviewer's Country/Territory: Ethiopia

Author's Country/Territory: China

Manuscript submission date: 2022-01-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-06 16:58

Reviewer performed review: 2022-01-11 12:37

Review time: 4 Days and 19 Hours

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript is unique, and it is critical to comprehend the current scientific evidence regarding the role of the HMGB1 protein in depression. It will be useful input in the future for the development of antidepressant drugs.

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good
	[ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing
	[ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority)
	[Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The review is excellent and has relevant content that contributes to basic science around depression. Other reviews on this topic have already been reviewed (Rana T, Behl T, Mehta V, Uddin MS, Bungau S. Molecular insights into the therapeutic promise of targeting HMGB1 in depression. Pharmacol Rep. 2021 Feb;73(1):31-42).   1. It would be interesting to explore more about the signaling pathways and include self-explanatory figures that summarize the idea of the article.   2. The authors describe neuroinflammation but do not explore the role of glia cells, especially astrocytes and microglia, crucial cells in the neuroinflammation process. What occurs in HMGB1-astrocytes and HMGB1-microglia interaction ?   3. Adding a topic on neuroinflammation linking with depression would be interesting.   Finally, the article is interesting, but can easily be improved.