

## PEER-REVIEW REPORT

Name of journal: World Journal of Pharmacology

**Manuscript NO:** 84146

Title: In silico insight into Amurensinine - an N-Methyl-D-Aspartate (NMDA) receptor

antagonist

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

**Reviewer's code:** 04232981 **Position:** Editorial Board

Academic degree: MD, MSc, PhD

**Professional title:** Assistant Professor

Reviewer's Country/Territory: Bangladesh

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

Manuscript submission date: 2023-03-02

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-03-23 13:39

Reviewer performed review: 2023-03-25 04:40

**Review time:** 1 Day and 15 Hours

	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C:
Scientific quality	Good
	[ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair
this manuscript	[ ] Grade D: No creativity or innovation



Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ Y] Major revision [ ] Rejection
Re-review	[Y]Yes []No
Peer-reviewer statements	Peer-Review: [ ] Anonymous [ Y] Onymous  Conflicts-of-Interest: [ ] Yes [ Y] No

#### SPECIFIC COMMENTS TO AUTHORS

1. Are there controversies in this field? What are the most recent and important achievements in the field? In my opinion, answers to these questions should be emphasized. Perhaps, in some cases, novelty of the recent achievements should be highlighted by indicating the year of publication in the text of the manuscript. 2. The results and discussion section is very weak and no emphasis is given on the discussion of the results like why certain effects are coming in to existence and what could be the possible reason behind them? 3. Conclusion: not properly written. 4. Results and conclusion: The section devoted to the explanation of the results suffers from the same problems revealed so far. Your storyline in the results section (and conclusion) is hard to follow. Moreover, the conclusions reached are really far from what one can infer from the empirical results. 5. The discussion should be rather organized around arguments avoiding simply describing details without providing much meaning. A real discussion should also link the findings of the study to theory and/or literature.



# PEER-REVIEW REPORT

Name of journal: World Journal of Pharmacology

**Manuscript NO:** 84146

Title: In silico insight into Amurensinine - an N-Methyl-D-Aspartate (NMDA) receptor

antagonist

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06351861 Position: Peer Reviewer Academic degree: PhD

**Professional title:** Assistant Professor

Reviewer's Country/Territory: United States

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

Manuscript submission date: 2023-03-02

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-03-31 14:04

Reviewer performed review: 2023-03-31 15:25

Review time: 1 Hour

	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C:
Scientific quality	Good
	[ Y] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ Y] Grade D: No novelty
Creativity or innovation of	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair
this manuscript	[ Y] Grade D: No creativity or innovation



Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ Y] Grade D: No scientific significance
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ Y] Major revision [ ] Rejection
Re-review	[ ]Yes [Y]No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous  Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

This manuscript describes the molecular modeling studies on Amurensinine as NMDA receptor antagonists. A few concerns for the authors. 1. The chemical structure of Amurensinine and Ifenprodil need to be shown. 2. The authors showed that Amurensinine had binding affinity to NMDA receptor, but having binding affinity to NMDA receptor does not necessarily mean that it will antagonize the receptor. 3. The authors claimed that Amurensinine will have similar binding affinity to NMDA receptor as Ifeprodil because of the similar calculated affinity energies from molecular modeling studies, which is not very much convincing. 4. Figure 2, the amino acid residues that making interactions with the ligands need to be shown. Otherwise, it is difficult for the readers to see the difference between the binding modes of different ligands.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Pharmacology

Manuscript NO: 84146

Title: In silico insight into Amurensinine - an N-Methyl-D-Aspartate (NMDA) receptor

antagonist

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04232981 Position: Editorial Board

Academic degree: MD, MSc, PhD

**Professional title:** Assistant Professor

Reviewer's Country/Territory: Bangladesh

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

Manuscript submission date: 2023-03-02

Reviewer chosen by: Li Li

Reviewer accepted review: 2023-05-06 15:09

Reviewer performed review: 2023-05-06 15:10

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] 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
Peer-reviewer	Peer-Review: [ ] Anonymous [Y] Onymous



https://www.wjgnet.com

statements

Conflicts-of-Interest: [ ] Yes [Y] No

#### SPECIFIC COMMENTS TO AUTHORS

Major Comments: 1. Are there controversies in this field? What are the most recent and important achievements in the field? In my opinion, answers to these questions should be emphasized. Perhaps, in some cases, novelty of the recent achievements should be highlighted by indicating the year of publication in the text of the manuscript. 2. The results and discussion section is very weak and no emphasis is given on the discussion of the results like why certain effects are coming in to existence and what could be the possible reason behind them? 3. Conclusion: not properly written. 4. Results and conclusion: The section devoted to the explanation of the results suffers from the same problems revealed so far. Your storyline in the results section (and conclusion) is hard to follow. Moreover, the conclusions reached are really far from what one can infer from the empirical results. 5. The discussion should be rather organized around arguments avoiding simply describing details without providing much meaning. A real discussion should also link the findings of the study to theory and/or literature. 6. Spacing, punctuation marks, grammar, and spelling errors should be reviewed thoroughly. I found so many typos throughout the manuscript. 7. English is modest. Therefore, the authors need to improve their writing style. In addition, the whole manuscript needs to be checked by native English speakers.