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PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 64939

Title: Abnormal synaptic plasticity and impaired cognition in schizophrenia

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01761104
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Doctor
Reviewer's Country/Territory: Taiwan
Author's Country/Territory: China

Manuscript submission date: 2021-02-26

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-03-29 12:10

Reviewer performed review: 2021-03-29 14:51

Review time: 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

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

SPECIFIC COMMENTS TO AUTHORS

The article is timely and important. Here are some minor suggestions: 1. page 13: Clozapine should be clozapine. 2. page 16: in the glutamate section, more details can be addressed. For example, cystine/glutamate antiporter system xc(-) https://pubmed.ncbi.nlm.nih.gov/26540405/ The authors also mentioned VGLUT2 protein. Other important proteins, such as DAOA (or G72) can be addressed too. https://pubmed.ncbi.nlm.nih.gov/23857119/ https://pubmed.ncbi.nlm.nih.gov/32582679/ 3. page 19: In the potential targets to treatment section, the authors can also address other targets such as glycine transporter (sarcosine) https://pubmed.ncbi.nlm.nih.gov/32122256/ and DAAO (or DAO) https://pubmed.ncbi.nlm.nih.gov/31660823/