

Lian-Sheng Ma, Science Editor, Company Editor-in-Chief, Editorial Office
World Journal of Psychiatry

Re: **Manuscript NO: 64939**

July 26, 2021

Dear Editor-in-Chief,

Please find herewith enclosed a copy of our revised manuscript entitled "**Abnormal synaptic plasticity and impaired cognition in schizophrenia**". We want to thank you and the reviewers for your thoughtful comments that helped us improve the quality of our manuscript.

We have carefully addressed the reviewer's questions and the editorial office's comments point-by-point (please refer to the following pages for the details).

As suggested, we have corrected the "Clozapine" into "clozapine" and completed the description of cystine/glutamate antiporter system x_c^- and other glutamate-related proteins DAOA (or G72) in the glutamate section. Additionally, we have added other two potential drugs targets (sarcosine and DAO) to the potential targets for the treatment of schizophrenia section. We have also cited references in the specific study.

We believe that the revised manuscript has been substantially improved and hope it meets the standard for publication in the World Journal of Psychiatry. We look forward to hearing from you.

Sincerely yours,

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RESPONSES TO THE REFEREE'S COMMENTS (blue texts are the original comments)

Many thanks for the valuable comments on the manuscript. We have made a substantial revision to the manuscript. Please see below for details of our responses to your comments.

Reviewer #1:

Scientific Quality: Grade C (Good)

Language Quality: Grade A (Priority publishing)

Conclusion: Minor revision

Specific Comments to Authors: The article is timely and important.

Response: Thanks very much!

1. Here are some minor suggestions: page 13: Clozapine should be clozapine.

Response: Thanks for your careful check. We are sorry for our carelessness. Based on your comments, we have revised the writing of the "Clozapine" as "clozapine" (page 13, line 3).

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/>

Response: Many thanks for reminding us of that. It will make the content exhaustive by adding those pieces of information. As a result, we have completed the descriptions of the cystine/glutamate antiporter system xc⁻ and DAOA (or G72) in the glutamate section (see page 15, paragraphs 1-2). We have also cited and added references in the specific study.

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/>)

Response: Thanks once again for your nice suggestions. We have added sarcosine and DAO to the section of " POTENTIAL TARGETS TO TREATMENT OF SCHIZOPHRENIA " and have cited references (page 18, paragraph 2).

EDITORIAL OFFICE'S COMMENTS

Authors must revise the manuscript according to the Editorial Office's comments and suggestions, which are listed below:

Science editor:

1 Scientific quality: This manuscript briefly summarized the morphology of synapse, the neurobiology of synaptic plasticity and the role of abnormal synaptic plasticity in schizophrenia. The topic is within the scope of WJP. (1) Classification: Grade C; (2) Summary of the Peer-Review Report: The review is timely and important, the reviewer only pointed out some minor issues. All the questions raised by the reviewer should be answered;

Response: Thank you for your kind reminder. We have revised the manuscript according to the reviewer and given a point-by-point answer to all questions. We hope that the revised paper meets the standard for publication.

(3) Format: There are no tables, 2 figures;

Response: Thanks. We have provided original figures using PowerPoint to ensure all components can be reprocessed by the editor.

(4) References: A total of 183 references are cited, including 39 references published in the last 3 years; (5) Self-cited references: There are 6 self-cited references;

Response: Thank you. We have checked the self-cited references and found that only three references were self-citing: ref. 82, 83, and 84. All these three references are closely related to the topic of the manuscript, reporting the role of envelope protein in regulating synaptic plasticity via influencing Ca^{2+} entry or the expression of synaptic-related gene BDNF.

(6) References recommendations: The authors have the right to refuse to cite improper references recommended by the peer reviewer(s), especially those published by the peer reviewer(s) him/herself (themselves). If the authors find the peer reviewer(s) request for the authors to cite improper references published by him/herself (themselves), please send the peer reviewer's ID number to editorialoffice@wjgnet.com. The Editorial Office will close and remove the peer reviewer from the F6Publishing system immediately.

Response: Thank you very much.

2 Language evaluation: Classification: Grade A.

Response: Thank you.

3 Academic norms and rules: The author did not provide conflict-of-interest disclosure form, signed copyright license agreement. Please upload the two files when submitting the revised manuscript.

No academic misconduct was found by the Google search.

Response: Thanks. We have uploaded the conflict-of-interest disclosure form and signed copyright license agreement attached to the revised manuscript.

4 Supplementary comments: This is an invited manuscript. The study was supported by ational Natural Science Foundation of China, Stanley Foundation from the Stanley Medical Research Institute, Medical Science Advancement Program (Basical Medical Sciences) of Wuhan University. The topic has not previously been published in the WJP.

Response: Thanks. We have uploaded the approved grant application forms attached to the revised manuscript.

5 Issues raised: The review is well-written, and the format conforms to the requirements of WJP.

The academic editor does not have further comments. 6 Re-Review: Required. 7 Recommendation: Minor revision.

Response: Thank you.

Company editor-in-chief:

I have reviewed the Peer-Review Report, full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Psychiatry, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors.

Response: Thank you very much.