

Reviewer #1: We appreciate the reviewer's suggestions since we think they have contributed to the improvement of the draft. Regarding the specific comments to conduct the minor revision:

1. All suggestions in relation to grammatical and syntax issues have been changed, and language in the whole manuscript has been further revised by a professional native English editor (the language editing certificate has been attached).
2. With regard to the typing mistakes, all of the mistakes mentioned by the reviewer have been corrected and the whole manuscript has been revised.
3. "Associated to" has been changed into "associated with" throughout the manuscript.
4. The number of articles obtained with the search strategy, as well as the number of articles that were finally included in the review have been included in the Methods section.
5. The abbreviations have been also checked and corrected throughout the entire manuscript.
6. We have expanded the introduction, adding an overview on depression.
7. We have italicized "In vivo" throughout the manuscript.
8. A "LIMITATIONS AND STRENGTHS" section has been included at the end of the manuscript, just before "CONCLUSIONS", highlighting the main limitations of the work.
9. Two figures of the NMDA and AMPA receptors have been created and added to the review.
10. We have modified the legend of the table to make it more informative. Also, the expansion of all the abbreviations used in the table have been added to the footnote.

Reviewer #2: We really appreciate the reviewer considering the manuscript well-prepared, and the concept functional and valuable, as well as his/her suggestions to improve it. Regarding the specific comments:

1. We have added two figures and modified the table to summarize and clarify the information contained in the text.
2. The whole manuscript has been revised by a professional native English editor (the language editing certificate has been attached).

Reviewer #3: We appreciate the reviewer's suggestions since we think they have contributed to the improvement of the draft. Regarding his/her concerns:

1. We have added an overview on depression in the Introduction section, as well as more references throughout the manuscript, and two figures of the NMDA and AMPA receptors. We believe that the article has gained in both depth and conciseness.
2. The whole manuscript has been revised by a professional native English editor (the language editing certificate has been attached).

Science editor: the editor raises the following issues:

1. The abbreviations have been also checked and corrected throughout the entire manuscript.
2. We have expanded the introduction, adding an overview on depression.
3. New references have been added and discussed throughout the text. The revised draft includes 102 references.
4. The whole manuscript has been revised by a professional native English editor (the language editing certificate has been attached).

Company editor-in-chief: the editor points out that the manuscript fulfills the requirements of the journal and is thus conditionally accepted. He/She also reminds us that comments coming from the peer-reviewers and the Editorial Office have been sent to us. We have addressed all comments coming from the three reviewers and the Science Editor.