



PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 75448

Title: Genetic variables of the glutamatergic system associated with treatment-resistant depression. A review of the literature

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05665395

Position: Peer Reviewer

Academic degree: MD

Professional title: Director, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Spain

Manuscript submission date: 2022-01-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-07 06:03

Reviewer performed review: 2022-02-09 06:47

Review time: 2 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Depression is a common, recurrent mental disorder and one of the leading causes of disability and global burden of disease worldwide. several studies have associated genes encoding AMPAR subunits with symptomatic severity and suicidal ideation. These genes encoding glutamatergic receptors could therefore be candidate genes for understanding the etiopathogenesis of TRD, as well as for understanding the pharmacodynamic mechanisms and response to ketamine and esketamine treatment. This article has some innovation, but it lacks depth, incomplete exposition and insufficient language conciseness



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Peer-review model: Single blind

Reviewer's code: 05459604

Position: Peer Reviewer

Academic degree: Doctor, PhD

Professional title: Professor, Senior Researcher

Reviewer's Country/Territory: China

Author's Country/Territory: Spain

Manuscript submission date: 2022-01-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-21 01:23

Reviewer performed review: 2022-02-23 01:29

Review time: 2 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This manuscript explored the clinical, genetic, and molecular evaluations of the glutamatergic system associated to treatment-resistant depression. This manuscript is well-prepared and the concept is functional and valuable, but there still have some problems to be improved. 1. You may explain in detail using figure or table to describe the relevant information of these associated genes. 2. There still have some grammar mistakes in this manuscript which need to be modified.



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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05393454

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Spain

Manuscript submission date: 2022-01-31

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-21 04:45

Reviewer performed review: 2022-02-24 09:10

Review time: 3 Days and 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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

SPECIFIC COMMENTS TO AUTHORS

1. The English need improvement since there are some grammatical and syntax errors in the manuscript. For example, the words "a personalized" maybe as "personalized"; "on genetics" as "on the genetics"; "Investigation" as "The investigation"; "A recent" as "Recent"; "lesser" as "a lesser"; "by female" as "by the female"; "most" as "the most"; "lower" as "a lower"; "contention" as "the contention"; "which has" as "has"; "a disinhibition" as "disinhibition". The grammar mistakes which are not mentioned here are also to be checked and corrected properly. 2. There are some typing mistakes as well, and authors are advised to carefully proof-read the text. For example, the words "two thirds" maybe as "two-thirds"; "within major" as "with major"; "one third" as "one-third"; "gene-pathways" as "gene pathways"; "differential genetic" as "differential gene"; "these gamma-" as "this gamma-"; "overview on" as "overview of"; "beside" as "besides". The typos not mentioned here are also to be checked and corrected properly. 3. In the title an subheadings, the words "ASSOCIATED TO" may be changed as "ASSOCIATED WITH". 4. The authors are encouraged to include how many articles were obtained from each of the search engines or the keywords used? 5. Check the abbreviations throughout the manuscript and introduce the abbreviation when the full word appears the first time in the text and then use only the abbreviation (For example, single nucleotide polymorphisms (SNPs), etc.). Make a word abbreviated in the article that is repeated at least three times in the text, not all words need to be abbreviated. 6. The introduction part appears less informative about the depression, thus this section should be indicated as detailed to understand the present work clear. 7. The technical terms (Latin Phrase) "in vivo" should be italic and it should be checked all over the



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manuscript. 8. The limitation of the review may be highlighted separately for the better understanding of the manuscript. 9. The authors may include figures for the better understanding and outcome of the manuscript since it is a review. 10. The table legends should be improved and a proper footnote should be given. All legends should have enough description for a reader to understand table without having to refer back to the main text of the manuscript. For example, the necessary expansion for the receptors may be given for abbreviations used. And also the receptor name has been misspelled "NMDA" as "MNDA" and it should be corrected properly.