

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA **Telephone:** +1-925-399-1568 **E-mail:** bpgoffice@wjgnet.com https://www.wjgnet.com

## PEER-REVIEW REPORT

Name of journal: World Journal of Psychiatry

Manuscript NO: 85756

Title: Pilot study of genome-wide DNA methylation and gene expression for treatment

response to escitalopram in panic disorder

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02325110 Position: Editorial Board Academic degree: MD

Professional title: Chief Doctor, Senior Research Fellow

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2023-05-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-05-26 17:04

Reviewer performed review: 2023-06-05 09:35

**Review time:** 9 Days and 16 Hours

	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] 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	[ ] Grade D: Fair [ ] Grade E: Do not publish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



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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	[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) [Y] Accept (General priority) [ ] Minor revision [ ] 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

Zou et al. submitted a very interesting pilot study. This study aimed to compare genome-wide methylation and gene expression patterns between responsive and non-responsive patients with PD after 4 weeks of escitalopram treatment. Thirty patients with PD were enrolled in this study (responders = 13; non-responders = 17). A total of 701 differentially methylated positions (DMPs) were found between responders and non-responders ( $|\Delta\beta| \ge 0.06$ , q < 0.05), and the hyper- and hypomethylated CpG sites were 511 (72.9%) and 190 (27.1%) , respectively. The work of Zou et al. shows that DMPs might be associated with the treatment response to escitalopram in PD. This pilot study is suitable for a publication in a reputable journal because the authors' hypotheses are clinically relevant and have never been tested before. The conduct of the study as well as the text and the layout of the manuscript are not objectionable. It is a very carefully planned and described work. However, there are limitations with regard to the comparatively small sample size and the study design (pre-to-post-treatment design and long-term follow-up are missing). However, the authors discuss these limitations openly and critically in the Discussion and Conclusion paragraphs. I recommend publishing



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this study without significant changes if such a specific genetic topic is eligible for the WJP.



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Reviewer's code: 05270700 Position: Editorial Board

Academic degree: DSc, MD, PhD

**Professional title:** Professor

Reviewer's Country/Territory: Bulgaria

Author's Country/Territory: China

Manuscript submission date: 2023-05-17

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-23 12:58

Reviewer performed review: 2023-06-24 18:29

**Review time:** 1 Day and 5 Hours

	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] 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 [ ] Grade B: Good [ Y] Grade C: Fair
this manuscript	[ ] Grade D: No creativity or innovation



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Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y]Yes []No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous  Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

This paper presents results from preliminary study of differentially methylated DNA positions to predict treatment response in patients with panic disorder. Drug choice and therapeutic monitoring are a major challenge for psychiatry in the era of psychopharmacology, a challenge much more tangible then it is for other clinical medical disciplines. Abstract provides meaningful summary of the findings. Methods appear to be appropriate given the aim of the study. Conclusions are based on data, limitations are duly acknowledged. Perhaps the authors may consider in the discussion broader interpretation of their results in the context of evidence based psychiatry: https://doi.org/10.1007/s13148-010-0014-2