

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Psychiatry*

**Manuscript NO:** 85389

**Title:** Correlation between cognitive impairment and metabolic imbalance of gut microbiota in patients with schizophrenia

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 06520453

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** United Kingdom

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-06-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-06-12 09:01

**Reviewer performed review:** 2023-06-20 06:57

**Review time:** 7 Days and 21 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Many clinical studies have shown that there is a certain correlation between schizophrenia and cognitive function. Effective intervention on patients' overall cognition, god and society will make patients' schizophrenia effectively transformed. In this study, the authors found that patients with schizophrenia had a larger decline in learning, memory, fine motor, social cognition, working memory, category fluency, information processing ability and kinetic energy rating compared with healthy people, which suggested that cognitive function was related to schizophrenia. In addition, they also found that the relative abundance of gut microbiota in patients with schizophrenia is very different from that in healthy people, and there is a phenomenon of intestinal microbiota imbalance in patients with schizophrenia. Authors adequately described the background, presented status and significance of the study. I have some minor suggestions: for the general data in the material method section, there is actually no need to list demographic data, because it belongs to the content of the results section. Here only need to introduce the research methods and grouping clearly. In addition, this part can also add a table to list the basic demographic data, which will make the presentation

of the results clearer. Finally, I thought the article required a minor revision, both for the language and the format.

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**Peer-review model:** Single blind

**Reviewer's code:** 06519526

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Germany

**Author's Country/Territory:** China

**Manuscript submission date:** 2023-06-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-06-12 00:27

**Reviewer performed review:** 2023-06-20 22:32

**Review time:** 8 Days and 22 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

This study is very interesting. The authors proposed to explore the correlation between cognitive impairment and intestinal microbiota imbalance in patients with schizophrenia. The tables help the readers to make a more understanding of the study. The whole manuscript is well drafted; however, some concerns have been noted including: 1. The abstract needs to be re-organized. The current abstract has 445 words, which is too lengthy. It is not necessary to list all the data in the results section, but only the core data. 2. Data in tables are very good. Please edit the tables carefully. For example, What does '+ / -' mean in Table 3? 3. A minor language editing is required. Some minor language polishing should be corrected. 4. Manuscript should be edited according to the journal's guidelines.