



PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 83924

Title: Neural lineage differentiation of human pluripotent stem cells: Advances in disease modeling

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 03949242

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer’s Country/Territory: China

Author’s Country/Territory: United States

Manuscript submission date: 2023-02-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-02-18 07:42

Reviewer performed review: 2023-02-20 02:30

Review time: 1 Day and 18 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 Grade E: Do not publish
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



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Scientific significance of the conclusion in 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 scientific significance
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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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

SPECIFIC COMMENTS TO AUTHORS

This manuscript entitled "Neural lineage differentiation of human pluripotent stem cells: advances in disease modeling " did detailed study on hPSCs. The study is interesting. I have some comments for improvement before acceptance. 1 Please write the artical in a regular format, e.g. "Alzheimer's Disease (AD)" in the "abstract" 2 Some studies have shown that iPSCs can differentiate into microglia, is it possible to provide an overview of microglia in the paper? 3 The relationship between brain disease and stroke is mentioned in the abstract, but the text deals with stroke, can you add some review of hPSCs and stroke?



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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05817430

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Research, Research Scientist

Reviewer's Country/Territory: Iran

Author's Country/Territory: United States

Manuscript submission date: 2023-02-16

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-02-16 03:27

Reviewer performed review: 2023-02-24 09:44

Review time: 8 Days and 6 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



Scientific significance of the conclusion in 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 scientific significance
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 checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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

SPECIFIC COMMENTS TO AUTHORS

In the present review paper, the authors present the “Neural lineage differentiation of human pluripotent stem cells: advances in disease modeling”. In detail, the paper and topic is good, but I have some major concerns about the paper which are listed as follows:

- o There are several grammatical errors in the text. Please control the text in that manner. The text should be written scientifically. For example, this type of writing is wrong: -Brain diseases affect 1 in 6 people worldwide, ranging from acute neurological diseases such as stroke to chronic neurodegenerative disorders such as Alzheimer’s Disease (AD). Recent advancements in tissue-engineered brain disease models have allowed us to overcome the shortcomings of animal models, tissue culture models, and epidemiologic patient data that is commonly used to study brain disease; Or, hPSCs include both human embryonic stem cells (hESCs) and human induced pluripotent stem cells (hiPSCs); and etc. Please modify the text.
- o Where is the “Keywords”?
- o Table 1, “reference column” should be modified and the name of the authors should be replaced in this column.
- o The paper needs a “conclusion” part.