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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 75984

Title: Sinomenine promotes differentiation of induced pluripotent stem cells into immature dendritic cells with high induction of immune tolerance

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05776365
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2022-02-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-25 11:04

Reviewer performed review: 2022-03-01 09:43

Review time: 3 Days and 22 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No

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

SPECIFIC COMMENTS TO AUTHORS

1. The topic of the article is novel, the previous literature has paid more attention to the therapeutic effect of penicilline on potentially inducing immune tolerance, while this article focuses on describing that chycolinergic can maintain the immature state of dendritic cells derived from iPSC, which helps to solve the problem of immature dendritic cell sources, there are few relevant reports. 2.The overall logic of the article is clear, but most of it is limited to apparent observation: (1) the endocytotic capacity of iPSCs-imDCs has not been detected; (2) the specific dose of sinomenine is best for maintaining the immature state of iPSCs-imDCs, and it is recommended to set up a sinomenine dose gradient test; (3) cell density is also an important factor determining cell fate, and it is recommended to try different cell densities on different effects of immune tolerance in organ transplantation to obtain the optimal protocol. 3. Some references in the article are not time-sensitive, and when consulting the literature, it is found that the related articles on sinomenine and immunity have shown an upward trend year by year in recent years, and it is recommended to update the literature; follow-up can continue to excavate the specific mechanism of sinomenine in maintaining the immature state of iPSCs-imDCs.

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Title: Sinomenine promotes differentiation of induced pluripotent stem cells into immature dendritic cells with high induction of immune tolerance

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

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Reviewer's code: 05446072
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: China

Manuscript submission date: 2022-02-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-25 12:23

Reviewer performed review: 2022-03-09 10:19

Review time: 11 Days and 21 Hours

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

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SPECIFIC COMMENTS TO AUTHORS

Comments: Over all a very nice effort to address the research question. The title and background is accordingly mentioned. Methodology is described in detail and this is appropriate to address the research objectives. Results have been nicely presented and discussion is well written, however a few sentences need to be added for the future directions • Plz confirm if conventional RT-PCR was done for iPSCs characterization or qRT-PCR and also Gapdh is mentioned in the table of primers, but it says in the text that the data was normalized by using B-actin only, clarify. Also mention the qPCR platform used • If a cell line for iPSCs (MiPS.5) was commercially purchased, wasn't it already characterized and what's the rationale for doing so many experiments for its characterization in the study? • As mentioned in conclusion Sinomenine was used for the first time with iPSCs and the treated imDCs can be used in the field of transplantation immune tolerance, plz elaborate on how they can be used in a clinical setting and how much these results will correlate with human iPSCs derived imDCs