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PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 82729

Title: Human pluripotent stem cell-derived β cells: Truly immature islet β cells for type 1 diabetes therapy?

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02623966
Position: Editorial Board
Academic degree: MD, MSc, PhD
Professional title: Attending Doctor, Doctor, Research Scientist
Reviewer's Country/Territory: Greece
Author's Country/Territory: Australia

Manuscript submission date: 2022-12-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-28 08:27

Reviewer performed review: 2022-12-28 08:28

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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

SPECIFIC COMMENTS TO AUTHORS

It is an interesting manuscript. Authors succeed to present their data in a clear way adding information to the existing literature. Therefore, I have no corrections to do and the manuscript can be published unaltered.

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Peer-review model: Single blind

Reviewer's code: 05185912
Position: Peer Reviewer
Academic degree: PhD
Professional title: Research Scientist
Reviewer's Country/Territory: China
Author's Country/Territory: Australia

Manuscript submission date: 2022-12-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-12-30 06:08

Reviewer performed review: 2022-12-30 06:29

Review time: 1 Hour

Scientific quality	[Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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

This manuscript introduced how islet β cells develop and mature in vivo. At the same time, several types of reported SC-β cells produced using different ex vivo protocols in the last decade were introduced detailedly. Until now, T1DM can not be cured and life-long insulin replacement have to be done in T1DM. Based on this review, it maybe useful for the researchers to understand the function and potential role of SC-β cells in treating T1DM. Therefore, this manuscript is acceptable.