

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 60953

Title: Insulin resistance in diabetes: the promise of using induced pluripotent stem cell technology

Reviewer's code: 02728252

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Qatar

Manuscript submission date: 2020-11-18

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-13 01:42

Reviewer performed review: 2020-12-15 09:15

Review time: 2 Days and 7 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 Grade E: Do not publish
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 type="checkbox"/> Accept (General priority) <input checked="" 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



**Baishideng
Publishing
Group**

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

SPECIFIC COMMENTS TO AUTHORS

This is an interesting narrative review entitled "Insulin resistance in diabetes: the promise of using induced pluripotent stem cell technology". The authors concluded that a lot of work still needs to be done to use ihPSC technology to study IR. Minor concerns have been raised: 1. There is a conflict of using abbreviations in the figure legends, the authors should make a difference between insulin receptor (INRS)/ insulin receptor (INS) and insulin resistance (IR) abbreviations. 2. In writing, I prefer for the authors to focus on ihPSCs not on hPSCs (ethical problems) as this makes some sort of confusion. 3. What was written in the figure legends should be deleted from the text as example downstream signaling pathways of figure 1.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 60953

Title: Insulin resistance in diabetes: the promise of using induced pluripotent stem cell technology

Reviewer's code: 02785637

Position: Editorial Board

Academic degree: DDS, MSc

Professional title: Academic Research, Adjunct Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Qatar

Manuscript submission date: 2020-11-18

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-13 15:44

Reviewer performed review: 2020-12-28 09:08

Review time: 14 Days and 17 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
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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input 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



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SPECIFIC COMMENTS TO AUTHORS

The authors aimed to review, the insulin resistance (IR) associated with diabetes and the related mechanism involved. The study is well written, is easy to follow and covers an hot topic, but some minor issues should be improved before publication. Some typos and acronyms should be corrected thorough the text. Please add a sentence in the abstract about iPSC. Moreover the authors overview the use of iPSC technology to understand and treatment of IR and explain the challenges and limitations of using the human iPSC-based model. In this view, will be useful for the readers to add a representative table of the recent literature findings on this topic.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 60953

Title: Insulin resistance in diabetes: the promise of using induced pluripotent stem cell technology

Reviewer's code: 05356022

Position: Peer Reviewer

Academic degree: PhD

Professional title: Academic Fellow, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Qatar

Manuscript submission date: 2020-11-18

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-12-14 15:21

Reviewer performed review: 2021-01-05 15:51

Review time: 22 Days

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
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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input 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



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SPECIFIC COMMENTS TO AUTHORS

The manuscript described the mechanisms of IR and the advantages and limitations of iPSC as an in-vitro model for study of IR. It is a topic of interest to the researchers in the related areas. A few minor revisions are listed below: 1. The manuscript needs careful editing by an English-native speaker paying particular attention to English grammar, spelling, and sentence structure. For instance, the following sentences need modifications: "Previous studies showed alterations in the gene expression prolife between the individuals with family history of T2D and those without family history of the disease" and "STUDYING THE MECHANISMS UNDERLYING THE DEVELOPMENT OF INSULIN RESISTNACE". 2. In the Introduction section, the description of iPSC was insufficient and should be supplemented. 3. Although the logic of this manuscript is clear and unobstructed, the content was a bit broad and the focus was not prominent enough. The iPSC section should be highlighted.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Stem Cells

Manuscript NO: 60953

Title: Insulin resistance in diabetes: the promise of using induced pluripotent stem cell technology

Reviewer's code: 02785637

Position: Editorial Board

Academic degree: DDS, MSc

Professional title: Academic Research, Adjunct Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Qatar

Manuscript submission date: 2020-11-18

Reviewer chosen by: Han Zhang (Part-Time Editor)

Reviewer accepted review: 2021-02-08 08:24

Reviewer performed review: 2021-02-08 10:34

Review time: 2 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
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
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SPECIFIC COMMENTS TO AUTHORS



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THE AUTHORS HAVE ADDRESSED TO ALL COMMENTS. THANK YOU.