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PEER-REVIEW REPORT

Name of journal: *World Journal of Translational Medicine*

Manuscript NO: 74949

Title: Current progress and emerging technologies for generating extra-pancreatic functional insulin producing cells

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05639036
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: Iran
Author's Country/Territory: India

Manuscript submission date: 2022-01-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-13 19:52

Reviewer performed review: 2022-01-13 20:08

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [Y] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [ ] Grade B: Minor language polishing [Y] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [Y] 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

The style of a scientific manuscript is not considered in this manuscript. For example, authors used an original figure on gene-expression analysis as figure1. It is not suitable for review manuscript. Also, other figures had not suitable quality. Why you used figure4? Induced pluripotent stem cells are a promising approach on cell-based therapy to avoiding immune rejection. There is no section about this cell, while it is most important cell! Also, authors mentioned iPS cells in figure1. WHY? The number of headlines and sub-headlines and confusing. There are various grammatical and orthographical errors regarding English. References are too old. There is a major advance in this technology in recent years. Last recent cited article is related to 2016.

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Peer-review model: Single blind

Reviewer's code: 02446101
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Professor, Surgeon
Reviewer's Country/Territory: China
Author's Country/Territory: India

Manuscript submission date: 2022-01-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-12 14:17

Reviewer performed review: 2022-01-16 14:47

Review time: 4 Days

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: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this manuscript, the authors discussed the current progress and emerging technologies for generating extra-pancreatic functional insulin producing cells. It's an insteresting manuscript and provides some new ideas to the readers. In this paper, the main research advances in this field are systematically discussed and described. There's only one issue which should be addressed. In the section of "Extra-pancreatic sources of β–cells", hepatic stem/progenitor cells is the most promising cell source and should be discussed at first. So, acceptance after minor revision should be recommended for this manuscript.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05426937
Position: Peer Reviewer
Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2022-01-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-12 07:26

Reviewer performed review: 2022-01-17 03:02

Review time: 4 Days and 19 Hours

Scientific quality	[Y] Grade A: Excellent [ ] 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	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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

SPECIFIC COMMENTS TO AUTHORS

No.

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PEER-REVIEW REPORT

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Title: Current progress and emerging technologies for generating extra-pancreatic functional insulin producing cells

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02728252
Position: Editorial Board
Academic degree: PhD
Professional title: Professor
Reviewer's Country/Territory: Egypt
Author's Country/Territory: India

Manuscript submission date: 2022-01-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-13 12:14

Reviewer performed review: 2022-01-22 08:50

Review time: 8 Days and 20 Hours

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 [ ] Grade B: Minor language polishing [Y] 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

This is a narrative review exploring the current progress and emerging technologies for generating extra-pancreatic functional insulin producing cells. The review summarizes extra-pancreatic sources to produce insulin secreting cells with reference to emerging technologies to fulfill the future clinical need. The review needs to be updated with a more recent references and English editing is mandatory. Could you please refer to table 2 in the text of the manuscript.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03673990
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: Poland
Author's Country/Territory: India

Manuscript submission date: 2022-01-12

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-12 21:18

Reviewer performed review: 2022-01-23 19:03

Review time: 10 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	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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

SPECIFIC COMMENTS TO AUTHORS

The manuscript titled "Current progress and emerging technologies for generating extra-pancreatic functional insulin producing cells" sent to the World Journal of Translational Medicine is a review of therapeutic strategies being performed to obtain insulin producing cells from extra-pancreatic sources. The authors take up a very interesting topic, which, due to the rapid development of various technologies in medicine, may soon result in real and effective ways of becoming independent from pancreatic or beta cell transplantation. The strong advantage of the paper study is independent presentation of extra-pancreatic sources of beta-cells, emerging technologies for cell transplantation in diabetes and transplantation sites. The authors in a clear way in the form of tables show the advantages and disadvantages of different transplantation sites as well the degree of beta-cell similarity in relation to target cells . However only in relation to one of the methods they describe in detail the viability of the transplanted cells and the effect on the maintenance of normoglycemia, it would be worth to show these effects for all studies. There is also no more up-to-date literature or a description that there have not been many publications on the subject recently. Finally the paper is worth to be published in the World Journal of Translational Medicine after minor revision.