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ESPS Peer-review Report

Name of Journal: World Journal of Diabetes

ESPS Manuscript NO: 7684

Title: Transdifferentiation of pancreatic α -cells into insulin-secreting cells: from experimental models to underlying mechanisms

Reviewer code: 02446609

Science editor: Ling-Ling Wen

Date sent for review: 2013-11-29 13:23

Date reviewed: 2014-03-07 07:06

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Major Comments:

Over-all this review has successfully incorporated the recent advancements in approach to develop mechanisms employed for transdifferentiation of pancreatic α -cells into β -cells for transplant purposes, leading to a potential cure for treatment of diabetes. However, the review can be further improved by discussing mechanisms that are best suited for transdifferentiation of β -cells. Also, loopholes in other methods found less suitable should be explained in more details.

Minor Comments:

Pages are not numbered. However, we did our best to relate the following comment to specific pages and paragraphs:

- 1) Page 4, first paragraph: Reference required, for International Diabetes Federation Data
- 2) Page 5, first paragraph: Transdifferentiation of fully differentiated non- β cells into β -cells, has emerged, instead of was emerged
- 3) Page 5, second paragraph: EGF and LIF: expansion for these abbreviations
- 4) Page 6, third paragraph: Reference required
- 5) Page 8, first paragraph: C-6: hyphen in between α and cells
- 6) Page 10, title of first section: hyphen in between α and cells
- 7) Page 10, first paragraph: continuous word no hyphen transdifferentiate instead of transdiffe-rentiate
- 8) Table-1: place a hyphen between β and cells
- 9) Table-1: place a hyphen between α and to and β cell
- 10) Table-1: Font for References is different than in the rest of the table