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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

ESPS manuscript NO: 13183

Title: In Vitro Differentiation of Human Umbilical Cord Wharton's Jelly Mesenchymal Stromal Cells to Insulin Producing Clusters (ID: 01212900)

Reviewer's code: 00631847

Reviewer's country: Taiwan

Science editor: Yue-Li Tian

Date sent for review: 2014-08-14 14:28

Date reviewed: 2014-08-24 12:53

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

It is a well written manuscript concerning the induction of Wharton's jelly derived MSCs into insulin secretion cells. The authors used the RT-PCR to assess the functional status of these insulin secretion cells. The conceptual models of various sources of mesenchymal stem differentiated into insulin secretion cells were widely published. The author iterated that the Wharton's jelly derived MSCs could produce high efficiency of insulin production. They should make a table consisting of different stem cell sources, differentiation protocol, and efficiency of insulin production.



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Title: In Vitro Differentiation of Human Umbilical Cord Wharton’s Jelly Mesenchymal Stromal Cells to Insulin Producing Clusters (ID: 01212900)

Reviewer’s code: 02551692

Reviewer’s country: Italy

Science editor: Yue-Li Tian

Date sent for review: 2014-08-14 14:28

Date reviewed: 2014-08-28 02:39

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<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"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

The topic of this work is very interesting even if the results are not definitive infact the authors conclude that the insulin production by Insulin producing clusters (IPC) is not sufficient. Some corrections must be effettuated before work acceptance. In particular english language necessited to be revised. In the matherials and methods section the explanation of abbreviation must be written at the first appearance in the text (DMEM), it is also important to clarify in this section of the paper the mechanisms of action of some reagents such as the exendin-4 and dithizone. There aren't figures reporting gene expression analysis. The insulin production was reported increased after incubation with high glucose concentration but data regarding the insulin production by control cells are not reported. The discussion could be revised to effort the study results and the implications for further studies.The figure legends must me improved with a more detailed description.