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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 14571

Title: Placental-derived stem cells: culture, differentiation and challenges

Reviewer's code: 00203715

Reviewer's country: Germany

Science editor: Fang-Fang Ji

Date sent for review: 2014-10-14 08:54

Date reviewed: 2014-11-21 23:48

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	PubMed 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"/> 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 checked="" type="checkbox"/> Minor revision
		BPG Search:	<input 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

The manuscript by Oliveira and Baretto-Filho "Placental derived stem cells: culture, differentiation and challenges" reviews the possibility and advantages of using these stem cells in regenerative medicine. In addition, molecular characteristics and culture conditions are presented. The topic is very interesting and the review is up-to-date. The description of early embryonic development is imprecise and the chronological order of processes is not correctly depicted. The trophoctoderm is NOT a structure derived from the inner cell mass and Cdx2-expressing cells segregate from Oct4-positive cells concomitantly forming a blastocyst. Furthermore, minor language polishing will help to increase the quality of the manuscript.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 14571

Title: Placental-derived stem cells: culture, differentiation and challenges

Reviewer's code: 00009879

Reviewer's country: South Korea

Science editor: Fang-Fang Ji

Date sent for review: 2014-10-14 08:54

Date reviewed: 2014-11-05 15:27

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	PubMed Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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 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 checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

It is important to get enough purity cells and to understand the mechanism of differentiation and engraftment of placental-derived stem cells (p-SCs) for clinical application.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 14571

Title: Placental-derived stem cells: culture, differentiation and challenges

Reviewer's code: 00742373

Reviewer's country: United States

Science editor: Fang-Fang Ji

Date sent for review: 2014-10-14 08:54

Date reviewed: 2014-11-23 05:35

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	PubMed 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 type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input checked="" type="checkbox"/> Grade D: Fair	<input checked="" 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

1. In the review titled: "Placental-derived stem cells: culture, differentiation and challenges", the authors reviewed current articles on placental derived stem cells for its biological characteristics, culture, and potential clinical resources for disease treatment. The review concluded that using placental derived stem cells has advantages for non-invasiving, no ethic issue, large supplies, lack of tumorigenicity, and low immunogenicity. 2. Generally speaking, this is a very good topic in transitional medicine. It has great significance to bring basic scientific research into clinical practice even though there could be a long way to go. Compare to other stem cells, to obtain placental derived stem cells does not involve any invasive procedures for the donor. Basically, their use does not create ethical issue. It is available in large supplies. Its ability to differentiate into all three germ layers and lack of tumorigenicity makes it an excellent candidates for cell therapy. In addition, an important characteristic that leads p-SCs to a great importance for clinical application is their low immunogenicity. For these reasons, the topic of this review is of great significant. 3. However, there are some major concerns for this manuscript: a. Generally speaking, the descriptions in this article are in a very shallow surface. For example, the part of the biological properties and the cellular



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characteristics. It described the general properties of the stem cells but not much in a deep level for placental derived stem cells. In the cell therapy section, this article listed many diseases which may be treated with p-SC, but the descriptions are not very clear. If the author can make a table for the p-SC uses in research, it will be more easy for readers to understand. b. In the section of cell culture, the author did not collect the specific information for placental-derived stem cell culture. It has little help for readers in practice. It is suggested to point out what is the differences between placental-derived stem cell culture and other stem cell culture. 4. In addition to the major concerns, there are some minor suggestions to the author: a. Give full name for any abbreviation at the first appearance in the article rather than in the middle. Such as Oct4, Cdx2, BMP2/4, etc. b. References are not committed to the same style, for example, the number of authors, some have all the authors names but others have only three followed by et al. It is suggested to check the guidelines and following the requirement. c. English Improvement: English in this article should be improved greatly. Please carefully check the grammar. For example: in abstract, line 13-19; in conclusion, line 1; etc.