

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 33057

**Title:** Adipose-derived stromal cell in regenerative medicine

**Reviewer's code:** 00344450

**Reviewer's country:** Japan

**Science editor:** Xiu-Xia Song

**Date sent for review:** 2017-02-12

**Date reviewed:** 2017-02-21

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 type="checkbox"/> Grade B: Minor language	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Duplicate publication	publication
<input type="checkbox"/> Grade D: Fair	<input checked="" type="checkbox"/> Grade C: A great deal of	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	language polishing	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
	<input type="checkbox"/> Grade D: Rejected	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

This is a minireview of ADSC for the purpose of clinical translation. The followings are my comments. 1) Safety issues of ADSC cells transplantations should be precisely reviewed. 2) Identification of ADSC cells from different reports should be compared. 3) Authors should mention about the evidence that ADSC cells replaced for several tissue stem/progenitor cells.

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 33057

**Title:** Adipose-derived stromal cell in regenerative medicine

**Reviewer's code:** 00110885

**Reviewer's country:** United States

**Science editor:** Xiu-Xia Song

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**Date reviewed:** 2017-03-01

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 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 type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input 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 type="checkbox"/> No	

## COMMENTS TO AUTHORS

In their review "Adipose-derived stromal cell in regenerative medicine: a minireview" Qomi et al. discuss applications of the adipose tissue-derived stromal vascular fraction (SVF) and specifically of adipose-derived stromal cell (ADSC) as therapeutics. The importance of the research area discussed is significant and the subject is of high novelty and innovation. Manuscript is organized relatively well and fundamental background on ADSC is discussed. The presentation and readability of the manuscript is fair. However, language polishing (both grammar and spelling) is needed. An example of grammar problems: "can expressed" Another phrase: "grafting of SVF is a safe treatment for OA that lead to any side effect and cancer" - not clear what this means at all. The authors discuss applications of ADSC to Colitis, Liver failure, Diabetes mellitus, Multiple sclerosis and Orthopaedic disorders. However, there are many other uses of ADSC that are clinically more advanced. This includes skin burns and lipofilling. It is suggested that a display item comparing ADSC to other types of stem cells is added. Also, provided the significant number of ADSC-based clinical trials, it is imperative that



## BAISHIDENG PUBLISHING GROUP INC

7901 Stoneridge Drive, Suite 501, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)

<http://www.wjgnet.com>

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a Table with their up-to-date coverage be included. The review should also include the section on the safety of ADSC application in cancer patients. As published by the Kolonin laboratory and others, ADSC promote carcinoma progression and for that reason appear to increase the risk of cancer relapse in breast augmentation procedures. There could also be a concern of their safety for smooth and skeletal muscle regeneration applications due to their pro-fibrotic properties, which should also be discussed. Finally, a correction needs to be made. Unlike what authors state, ADSC express CD34 in vivo, although they do lose it in culture. One of the original references to this: Traktuev D. et al., Circulation Research, 2008; 102, 77-85.