

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 49591

Title: Adipose stromal/stem cells in regenerative medicine: Potentials and limitations

Reviewer's code: 02446191

Position: Editorial Board

Academic degree: MSc, PhD

Professional title: Assistant Professor

Reviewer's country: India

Author's country: Brazil

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-07-03 03:38

Reviewer performed review: 2019-07-03 12:12

Review time: 8 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a well written manuscript where author has discussed about stem and



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progenitors cells from subcutaneous adipose tissue and their therapeutic potential in regenerative medicine. Author further emphasized on multipotentiality of ASCs and its application in bone, cartilage and adipose tissue engineering using powerful 3D cell culture tools. Typological errors need to be corrected.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 49591

Title: Adipose stromal/stem cells in regenerative medicine: Potentials and limitations

Reviewer's code: 02702057

Position: Editorial Board

Academic degree: BSc, MSc, PhD

Professional title: Associate Professor

Reviewer's country: Italy

Author's country: Brazil

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-07-03 07:00

Reviewer performed review: 2019-07-03 12:13

Review time: 5 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Article title "Adipose stromal/stem cells in regenerative medicine: potentials and

limitations” deal an important issue of regenerative medicine. This study aimed to provide new targets in treatment and new insights in regenerative medicine. These findings may provide useful reference for the early diagnosis and treatment. This editorial is very interesting and innovative. In the present form the state of the art/background is still not updated. There are some minor revision that needed to address before recommending publication. Please add the aim of your study in the abstract and in the introduction section. In the introduction section please talk about cartilage regeneration thought engineered tissue engineering and mechanobiology to improve your editorial scope. Please comment and quote the following recent and interesting paper: β -Defensin-4 (HBD-4) is expressed in chondrocytes derived from normal and osteoarthritic cartilage encapsulated in PEGDA scaffold. *Acta Histochem.* 2012 Dec;114(8):805-12. Asymmetrical seeding of MSCs into fibrin-poly(ester-urethane) scaffolds and its effect on mechanically induced chondrogenesis. *J Tissue Eng Regen Med.* 2017 Oct;11(10):2912-2921. Some illustrations are needed to help better readers understanding. Spheroids are a 3D cell culture approach where cell clusters are formed in the absence of a scaffold (scaffold-free), optimizing cell-cell and cell-extracellular matrix interactions.” A reference missing, please quote the following paper: Biosynthesis of collagen I, II, RUNX2 and lubricin at different time points of chondrogenic differentiation in a 3D in vitro model of human mesenchymal stem cells derived from adipose tissue. *Acta Histochem.* 2014 Oct;116(8):1407-17. In the conclusion section please specify better the clinical relevance of your work.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication



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[] Plagiarism

[Y] No

BPG Search:

[] The same title

[] Duplicate publication

[] Plagiarism

[Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 49591

Title: Adipose stromal/stem cells in regenerative medicine: Potentials and limitations

Reviewer's code: 02860871

Position: Editorial Board

Academic degree: MD, MSc, PhD

Professional title: Research Scientist, Senior Lecturer

Reviewer's country: Indonesia

Author's country: Brazil

Reviewer chosen by: Ying Dou

Reviewer accepted review: 2019-07-03 05:56

Reviewer performed review: 2019-07-18 07:35

Review time: 15 Days and 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This editorial entitled "Adipose stromal/stem cells in regenerative medicine: potentials

and limitations” by Baptista et al is interesting in its field. The authors presents the stem and progenitors cells from subcutaneous adipose tissue, briefly comparing them with their bone marrow counterparts, and discussing their potential for use in regenerative medicine. This article is well written with few typos inside. Here are some comments :

1. Because the entire manuscript discuss about the stem and progenitors cells from subcutaneous adipose tissue (ASC), briefly comparing them with their bone marrow counterparts (MSCs), please presents in a table the difference between ASCs and bone marrow MSCs in order to be more clear

2. The author mentioned the scaffold-free approaches to tissue engineering ‘spheroids’ have emerged optimizing the multilineage differentiation capacity of ASCs and MSCs. However, the limitation of this approach has not been discussed.

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ No

BPG Search:

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- ☐ Plagiarism
- ☐ No