



**PEER-REVIEW REPORT**

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

**Manuscript NO:** 49231

**Title:** Cartilage and bone tissue engineering using adipose stromal/stem cells spheroids as building blocks

**Reviewer's code:** 03811054

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Professor

**Reviewer's country:** Egypt

**Author's country:** Brazil

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2019-05-20 05:45

**Reviewer performed review:** 2019-05-21 14:39

**Review time:** 1 Day and 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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input 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 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 type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

**SPECIFIC COMMENTS TO AUTHORS**



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The aim is the important use of spheroids from adult mesenchymal stem / stromal cells in the developmental engineering of cartilage and bone. So, the research goal is worth publishing. The manuscript was carefully written and included several axes including: • The use of spheroids for developmental engineering of cartilage and bone o Spheroids as building-blocks o Fusogenicity of spheroid assay o Spheroid 3D bioprinting    Accept

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- The same title
- Duplicate publication
- Plagiarism
- No

##### ***BPG Search:***

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- No



**PEER-REVIEW REPORT**

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

**Manuscript NO:** 49231

**Title:** Cartilage and bone tissue engineering using adipose stromal/stem cells spheroids as building blocks

**Reviewer’s code:** 02524648

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Postdoctoral Fellow, Senior Researcher

**Reviewer’s country:** Spain

**Author’s country:** Brazil

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2019-05-20 10:39

**Reviewer performed review:** 2019-05-25 22:40

**Review time:** 5 Days and 12 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

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The minireview “Cartilage and bone tissue engineering using adipose stromal/stem cells spheroids as building blocks”, by Kronemberger and colleagues is a well-written, comprehensive account of the advances made using MSC- and ASC-derived spheroids to obtain cartilage and bone, discussing some advantages of 3D culture versus 2D culture, the addition of induction factors such as BMP-7 to drive osteogenesis, spheroid fusogenicity, the use of hydrogels. The one dimension that does not appear to have been properly addressed is the limitations that using scaffold-based approaches pose and in what manner these are overcome by the use of spheroids. Otherwise, this is a well-structured, interesting minireview. In the absence of line numbering throughout the MS, some comments have been directly introduced into the text (e.g. in both figures, the scale bar measurement must be indicated as  $\mu\text{m}$ , and not as  $\mu\text{M}$ ). The document containing these comments is attached.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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##### ***BPG Search:***

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- Plagiarism
- No



**PEER-REVIEW REPORT**

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

**Manuscript NO:** 49231

**Title:** Cartilage and bone tissue engineering using adipose stromal/stem cells spheroids as building blocks

**Reviewer's code:** 03810998

**Position:** Editorial Board

**Academic degree:** BSc, MPhil, PhD

**Professional title:** Associate Professor

**Reviewer's country:** China

**Author's country:** Brazil

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2019-05-20 05:00

**Reviewer performed review:** 2019-06-10 03:59

**Review time:** 20 Days and 22 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 type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" 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 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

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This is a well-written and interesting review paper to discuss the use of adipose derived stem cells in the form of spheroid for bone and cartilage regeneration. The reviewer has the following concerns before it can be considered for acceptance. 1) Please add 1-2 tables to summarize the use of adipose stem cells-derived spheroids for bone and cartilage regeneration in vitro and especially in vivo. 2) Please use 1-2 schematic figures to summarize the fabrication of spheroids and their interaction with the local microenvironment and tissues. 3) Please add more recent original article to provide the readers with the most advanced techniques of adipose stem cells-derived spheroids for tissue regeneration, especially in the field of additive manufacturing. 4) Minor language editing is necessary.

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- No