

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 46096

Title: Generation of mesenchymal stem-like cells for producing extracellular vesicles

Reviewer's code: 02446223

Reviewer's country: Italy

Science editor: Ying Dou

Reviewer accepted review: 2019-02-12 08:06

Reviewer performed review: 2019-02-12 10:42

Review time: 2 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 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 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

The paper by Kim and Kim is an interesting review on the use of Mesenchymal stem-like cells to produce Extracellular Vesicles, with the aim of a cell-free therapy. The paper is interesting and well written, Title, Abstract and Keywords well reflect the main subject of the manuscript and the Background is adequately described. The authors described



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pros and cons of this approach in well organized paragraphs. The references are appropriately cited, with clear and exhaustive figures and tables. My only suggestion is to also emphasize the putative problems related both to the origin of PSC, and to the factors used to produce Mesenchymal-like cells and to derive EVs.

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: 46096

Title: Generation of mesenchymal stem-like cells for producing extracellular vesicles

Reviewer's code: 02567328

Reviewer's country: Italy

Science editor: Ying Dou

Reviewer accepted review: 2019-02-12 09:07

Reviewer performed review: 2019-02-19 15:37

Review time: 7 Days and 6 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 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 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

In this review the authors highlight the importance in therapeutic field of extracellular vesicle (EV) compared with native MSC or MSC derived from ESC or iPSC. The topic is interesting and no similar review are present in literature. There are some criticisms: - The title of the review does not seem appropriate to the content. Please modify - The



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paragraph "CONTENTS OF MSCs AND iMSCs" should be revised as sometimes there is confusion between information for MSC from ESC and MSC from iPSC. - In the paragraph "CONTENTS OF MSCs AND iMSCs" the author state that often EVs from pluripotent cell-derived have a distinguishable profile with respect to those from MSCs. Why? Suggest an explanation for this. Furthermore the authors state that hES-MSCs have more primitive characteristics than hMSCs. But is this an advantage in terms of content of EV?

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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