

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 46640

Title: Presence and role of stem cells in ovarian cancer

Reviewer's code: 00066723

Reviewer's country: Netherlands

Science editor: Fang-Fang Ji

Reviewer accepted review: 2019-02-20 08:09

Reviewer performed review: 2019-02-28 11:02

Review time: 8 Days and 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 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

The authors present a concise, interesting and readable review discussing the stem cell compartment in ovarian cancer and how it can be targeted for treatment. Major comments 1. Page 5, line 13 – The authors should refer here to the ongoing discussion regarding the origin of ovarian cancer. Is it derived from the ovarian surface epithelium



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or from the fallopian tube (see e.g. Klotz DM and Wimberger P (2017) Arch Gynecol Obst 296: 1055-1062). This may determine where one should look for stem cells. 2. Can the authors indicate whether the different stem cells compartments that are apparently present in ovarian cancer, have been analysed at the DNA level e.g. by whole genome sequencing. The presence of specific mutation / genomic aberration may help to identify the culprit cancer stem cell compartment. Minor comments: 1. Page 2, abstract, line 18 – “...and critical discussion...” should be “..and a critical discussion...” 2. Page 4, line 3 – “fetal disease” is this correct or a spelling error?

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ 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: 46640

Title: Presence and role of stem cells in ovarian cancer

Reviewer's code: 02446101

Reviewer's country: China

Science editor: Fang-Fang Ji

Reviewer accepted review: 2019-03-14 09:55

Reviewer performed review: 2019-03-14 10:44

Review time: 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 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

In this manuscript, the authors discussed the current research on CSCs in ovarian cancer, focusing on CSCs development and their role in tumor formation, progression and recurrence after, allegedly, successful treatment. The topic is within the range of publication of the journal. The manuscript could provide some new ideas and new



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progress on this research direction. However, there're still several issues which should be addressed. 1. The biomarkers of the stem cells in ovarian cancer is one important question. So, the author should add relevant content and fully discuss it. 2. Heterogeneous nature of ovarian cancer is very important too. So, the relevant content should be added in. Moreover, the authors should tell the readers how to study it and discuss the technique. So, major revision should be recommended.

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 46640

Title: Presence and role of stem cells in ovarian cancer

Reviewer's code: 03810998

Reviewer's country: China

Science editor: Fang-Fang Ji

Reviewer accepted review: 2019-03-14 01:06

Reviewer performed review: 2019-03-19 04:02

Review time: 5 Days and 2 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 type="checkbox"/> Anonymous
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		<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 an elegant review paper to summarize the current updates of cancer stem cells (CSC) derived from ovarian, and to discuss future perspectives in the field of ovarian cancer therapy using CSC. It will be much appreciated if the authors could add the following contents in this manuscript. 1) The CSC derived vesicles and the role for



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tumor progression, etc.; 2) Interactions between CSC and the local tissues and cells. 3)
Please cite more recent references to add the value of this manuscript.

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