

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 46740

Title: Breast cancer stem cells: The role of sex steroid receptors

Reviewer's code: 00646291

Reviewer's country: United Kingdom

Science editor: Ying Dou

Reviewer accepted review: 2019-03-05 13:08

Reviewer performed review: 2019-03-11 14:27

Review time: 6 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 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

Authors should consider including one or more figures illustrating the pathways affected by steroid hormone receptors leading to the generation of breast cancer stem cells. The authors might consider reorganizing the material in a way that indicates the nuclear hormone receptors associated miRNAs that regulate the process of breast cancer



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stem cell development in a separate section. A paragraph indicating future directions should be included. Minor comments Estrogen receptor instead of estradiol receptor throughout the manuscript "The two ER subtypes are encoded by genes on different chromosomes and activate estrogen response elements (ERE) in gene reporter assay (32)." Do the two different types of ER regulate the expression of the same genes? Some more details on the pathways affected by the ER α 36 and how proliferation and aggressiveness are regulated by this receptor would be beneficial for the quality of the review. "non-CSTs (44)" ? "a granzyme B" ? "...two important transcription factors implied in the control of mammary cell fate (60)." Implicated instead of implied? "BCSTs" ? Although the interest in the study of BCSCs is currently "blown up"?, it is not yet well known how these cells work within the cancer and what are the engaged pathways. "contributing to cell de-differentiation cells"

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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