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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 49806

Title: HIF-2α regulate CD44 to promote cancer stem cell activation in triple-negative breast cancer via PI3K/AKT/mTOR

Reviewer's code: 02856369

Reviewer's country: Germany

Science editor: Ying Dou

Reviewer accepted review: 2019-07-16 00:35

Reviewer performed review: 2019-07-16 02:31

Review time: 1 Hour

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[ ] Grade E: Do not publish		[ ] Rejection	[Y] Advanced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

SPECIFIC COMMENTS TO AUTHORS

This is an interesting study about the effect of HIF-2α down-regulation on stem cell markers, microsphere formation and apoptosis in breast cancer cell line MDA-MB-231. In recent years, researchers have found a small number of highly tumorigenic cell

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populations in breast tumors that express stem cell-like properties and are capable of self-renewal and differentiation, which are considered to be the source of tumor recurrence. The relationship between CD44 and HIF-2α and its regulation mechanism are still unknown. In this study, the authors analyzed the mechanism of cancer stem cells activation in triple-negative breast cancer and its role in the malignant progression of triple-negative breast cancer. Overall, this study is well designed. The results are very interesting. It worths publication. I have some minor comments. 1. Some minor language polishing should be corrected. 2. Figures 1 and 2 are too small, please make an update. 3. Discussion is good, but somewhat long. Please check and shorten it. 4. References are OK. Please update the format according to the journal's guideline.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 49806

Title: HIF-2α regulate CD44 to promote cancer stem cell activation in triple-negative breast cancer via PI3K/AKT/mTOR

Reviewer's code: 02857359

Reviewer's country: United States

Science editor: Ying Dou

Reviewer accepted review: 2019-07-16 00:35

Reviewer performed review: 2019-07-16 02:34

Review time: 1 Hour

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

SPECIFIC COMMENTS TO AUTHORS

Interesting study with valuable results. The manuscript is well written, however, some minor language polishing should be revised. The Figures should be moved to the end of the text. Methods are very detail. Figure 1 is not very clear, please check and replace it

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with a more clear image document.

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PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 49806

Title: HIF-2α regulate CD44 to promote cancer stem cell activation in triple-negative breast cancer via PI3K/AKT/mTOR

Reviewer's code: 02861628

Reviewer's country: Spain

Science editor: Ying Dou

Reviewer accepted review: 2019-07-16 00:35

Reviewer performed review: 2019-07-16 02:36

Review time: 2 Hours

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

SPECIFIC COMMENTS TO AUTHORS

Very interesting study. The manuscript is well written. I suggest to accpet it after some minor editing.

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[Y] No