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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells
ESPS manuscript NO: 19735
Title: Stem cell guidance through mechanistic target of rapamycin
Reviewer's code: 02520388
Reviewer's country: Germany
Science editor: Fang-Fang Ji
Date sent for review: 2015-05-20 14:54
Date reviewed: 2015-05-29 17:31

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[Y] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[Y] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The manuscript of Kenneth Maiese deals with the exciting topic of mTOR signaling and its role in the modulation of stem cells. The author clearly describes the complexity of mTOR signaling and points out that mTOR signaling might be an interesting target for future therapeutic approaches. The text is well-written, the overall mesasge is clear and the plethora of citations shows that the manuscript was carefully investigated. However, I the following remark should be considered before publication can be recommended: The detailed description (line 61-143) of the mTOR pathway, its players and regulatory proteins may be confusing to readers that are not familiar with the topic. Especially, as there is no proper visualisation by a resepctive figure. The only figure of this review shows a rather reduced scheme of the pathway and its implications on stem cells. I would suggest to either include an additional figure in this paragraph which depicts the complex interactions given in the text, or to rethink if it is really necessary to bother the reader with all the different proteins and protein-protein interactions that were not even pulled together with stem cell development, survival and differentiation in this paragraph.

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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells
ESPS manuscript NO: 19735
Title: Stem cell guidance through mechanistic target of rapamycin
Reviewer's code: 02242399
Reviewer's country: Taiwan
Science editor: Fang-Fang Ji
Date sent for review: 2015-05-20 14:54
Date reviewed: 2015-06-01 17:04

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[Y] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[Y] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Comments to author The author wants to make a comprehensive description of the roles of mTOR in cancer stem cells. This paper is well written and pretty clear; however, the diagram (Fig. 1) is not clear enough. The correlation between different molecules, which are involved in the different mTOR-guided fates of cancer stem cells, should be drawn clearly. The clearer illustration may potentiate the importance of this manuscript.