

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 15610

Title: Effects of suppressing the expression of miRNA-1 on biological behaviors of the hepatocellular carcinoma tumor endothelial cells

Reviewer's code: 02992384

Reviewer's country: Portugal

Science editor: Yuan Qi

Date sent for review: 2014-12-01 19:18

Date reviewed: 2014-12-15 03:17

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	PubMed Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Revision: Title: Effects of suppressing the expression of miRNA-1 on biological behaviors of the hepatocellular carcinoma tumor endothelial cells. The manuscript entitled "Effects of suppressing the expression of miRNA-1 on biological behaviors of the hepatocellular carcinoma tumor endothelial cells" describes the effect of suppression of miRNA-1 on several biological functions aiming its future use as potential tumor suppressor. The results of this study are very interesting and are promising, thus deserve to be published, but prior the manuscript needs minor revisions. 1) The manuscript needs a reading for correction of spelling and grammar errors, as well as to be concise on verbal use (examples will be given). a. Abstract, line 4 and 5: "TECS were divided in to three...", or "into" or "in" b. Introduction, page 5, line 10 "...order to investigated the..." 2) The abstract should have abbreviations prior to its definition, e.g., miR-1 (1st line), HCC (2nd line). 3) Authors should use the same notation along the manuscript when referring to the same thing; e.g. use of MiR-1 and miR-1; use of "l" and "L" for litter, and others. Please, choose one notation and be consistent along the manuscript. 4) Along the manuscript, authors should use the symbol font to insert the micro symbol

(μ). 5) Page 6, Methods (Infection of TECs by lentivirus”, authors should refer to the excitation and emission wavelengths used, or should indicate the filter used. 6) Page 8, Methods (Flow cytometry), why the authors use the designation of D-Hanks? Isn’t it Hanks Balanced salt solution (HBSS) or is another, please specify. a. “digestion was stopped by addition of culture supernatant”. Why the authors used the culture supernatant to stop the digestion? b. Line two from the bottom, please consider correcting, “after washing with PBS, 1 ml 1 x binding buffer...” to “after washing with PBS, 1 ml of 1 x binding buffer...”, and the followings... c. Please indicate the origin (manufacturer) of Annexin V-APC; please indicate the excitation, emission wavelengths used (or the lasers and filters used) to acquire cytometry data... 7) Page 9, Please correct the pore size of Transwell chamber, it should be 8 μm and not 8 mm (cell migration and cell invasion assays) 8) RESULTS (cell morphology) legend of figure 1 is a repetition of the text on result section. Please include the magnification used on Fig 1 legend. 9) RESULTS (determination of lentivirus....) and legend of Figure 2. a. There is a repetition of text between the legend and the body of the manuscript. b. Rearrange text of figure 2 in a more comprehensive way. It is not so clear that photos (A1 and A2; B1 and B2; C1 and C2) were taken from the same field as they should be. c. Please consider rearranging the images in figure, for instance 1st line bright field and 2nd line the corresponding fluorescence image, as I presume A1 and A2 are from the same field as well as B1 and B2. Comparison would gain if photos were close to each other. 10) RESULTS (miR-1 expression....). please refer to figure 3 in the text. The values shown on the figure 3 graphic indicate the value of 1 to the control, that is not the value indicated in the text “NC group ($2^{-\Delta\Delta Ct}=1$) and the CON group ($2^{-\Delta\Delta Ct}=1.05\pm0.13$) ($P<0.01$).” I think the values are exchanged. Also in figure 3, make a reference to the right panel in the legend or in the text... 11) RESULTS (detection of TECs....). please consider initiating the text by “As observed on figure 4...” to avoid having a “sentence” with (Figure 4)... a. Were the significant differences only observed at day 5, or at day 2 and 3 they were also significant? 12) RESULTS (flow cytometry....) and figure 5. a. Authors should mention the excitation source of x-axis and y-axis. Should mention the excitation source for annexin, and if read at XX or YY axis. Authors should mention what is read in each quadrant, as they don’t mention what is read at each axis. Thus it is difficult to interpret

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Title: Effects of suppressing the expression of miRNA-1 on biological behaviors of the hepatocellular carcinoma tumor endothelial cells

Reviewer's code: 02992527

Reviewer's country: China

Science editor: Yuan Qi

Date sent for review: 2014-12-01 19:18

Date reviewed: 2014-12-15 16:47

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

COMMENTS TO AUTHORS

1. The aim is to investigate the effect of miR-1 on biological behaviors of the hepatocellular carcinoma tumor endothelial cells, meanwhile, the hepatocellular carcinoma tumor endothelial cells is one factor of tumor microenvironment, so the author should introduce tumor microenvironment in the introduction part. 2. Discussion: The first and second paragraphs mainly are just reviews and belong to the introduction part. 3. A number of questions need to be addressed in order to elucidate whether the experimental data really support the conclusions. It is highly recommended to carry out some experiments in vivo or co-culture TECs infected by Lentiviral MiR-1 shRNA and HCC in order to explore the biological behaviors effect of HCC. 4. English has to be corrected in some instances where there are many grammar mistakes.