

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 6759

Title: Embryonic Stem Cell Factors and Pancreatic Cancer

Reviewer code: 02445433

Science editor: Qi, Yuan

Date sent for review: 2013-10-29 12:05

Date reviewed: 2013-11-08 20:31

| CLASSIFICATION | LANGUAGE EVALUATION | RECOMMENDATION | CONCLUSION |
|--|---|-------------------------------------|--|
| <input type="checkbox"/> Grade A (Excellent) | <input type="checkbox"/> Grade A: Priority Publishing | Google Search: | <input type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B (Very good) | <input checked="" type="checkbox"/> Grade B: minor language polishing | <input type="checkbox"/> Existed | <input type="checkbox"/> High priority for publication |
| <input checked="" type="checkbox"/> Grade C (Good) | <input type="checkbox"/> Grade C: a great deal of language polishing | <input type="checkbox"/> No records | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade D (Fair) | <input type="checkbox"/> Grade D: rejected | BPG Search: | <input type="checkbox"/> Minor revision |
| <input type="checkbox"/> Grade E (Poor) | | <input type="checkbox"/> Existed | <input checked="" type="checkbox"/> Major revision |
| | | <input type="checkbox"/> No records | |

COMMENTS TO AUTHORS

The review is potentially interesting but it might be improved as below specified: 1)The review contains a lot of word mistakes. The English must be carefully revised. 2)In the introduction section the incidence of PDAC worldwide should be added. 3)Figure 2 is too simple and redundant with figure 1. In my opinion it can be deleted. On the contrary, a table with the biological behaviors of OCT4, SOX2 and NANOG and their implication in PDAC will be much more helpful. 4)In the section "ESC factors and pancreatic cancer" or in "Stem cell definition and types" one, it might be included the last evidence on side-population of cells (SP) expressing cancer stem cell-associated genes. SP could be potentially stemness and contribute to CSCs, as well as their CSC-associated expressed genes could have potential prognostic and therapeutic values in PDAC (Van den Broek A.et al., 2013 PLOS ONE, vol 8, issue9, e73968). 5)At page 9 the correlation between OCT4, SOX2 and NANOG expression in human pancreatic cancer tissues and early diagnosis or prognosis requires a more extended description (i.e. detection of the protein or mRNA in the tissues, levels of expression and their correlation with the prognosis, etc.). Importantly, a table with a data summary of the "in cell culture" and "in tissue" evidences about the implication of OCT4, SOX2 and NANOG in pancreatic cancer and on the potentially targeted therapies will be very helpful. 6)Please specify in the text the type of pancreatic cell lines you cited 7)In the "Summary and perspective" section, a comment on the recent evidence that of u-PAR controlled oncolytic adenoviruses can eliminate CSCs in human pancreatic tumors (Sobrevals L et al. Stem Cell Res 2013, 12:1-10) is necessary (as u-PAR can down-regulated SOX2). Again, for the same reason, it is interesting to cite the connection between OCT4, SOX2, NANOG, KLF4 factors and DCLK1 based on the new evidence (Sureban SM et al. PLOS ONE 2013, volume 8, issue 9, e73940; Bailey JM et al. Gastroenterology 2013, DOI



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Title: Embryonic Stem Cell Factors and Pancreatic Cancer

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| CLASSIFICATION | LANGUAGE EVALUATION | RECOMMENDATION | CONCLUSION |
|--|---|-------------------------------------|--|
| <input type="checkbox"/> Grade A (Excellent) | <input type="checkbox"/> Grade A: Priority Publishing | Google Search: | <input type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B (Very good) | <input checked="" type="checkbox"/> Grade B: minor language polishing | <input type="checkbox"/> Existed | <input type="checkbox"/> High priority for publication |
| <input checked="" type="checkbox"/> Grade C (Good) | <input type="checkbox"/> Grade C: a great deal of | <input type="checkbox"/> No records | |
| <input type="checkbox"/> Grade D (Fair) | language polishing | BPG Search: | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade E (Poor) | <input type="checkbox"/> Grade D: rejected | <input type="checkbox"/> Existed | <input type="checkbox"/> Minor revision |
| | | <input type="checkbox"/> No records | <input checked="" type="checkbox"/> Major revision |

COMMENTS TO AUTHORS

This well written mini-review focuses on the importance of embryonic stem cell transcription factors in pancreatic cancer. The manuscript is of interest, however more details are required to convince the reader of the importance of these ESC factors from a clinical point of view. Specifically, more details are required with respect to the prognostic importance of ESC factors in pancreatic cancer (in vitro and in vivo). Further, a paragraph outlining other strategies under investigation targeting cancer stem cells in pancreatic would be of interest to the reader (i.e. STAT3, etc). Minor issues: The entire manuscript should be reviewed by the authors for spelling mistakes : For example, in the Abstract – “Interstingly”; also in the same sentence should “of” be removed.