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Flat C, 23/F., Lucky Plaza,
315-321 Lockhart Road,
Wan Chai, Hong Kong, China

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 4821

Title: The stages related molecular mechanisms for generating cholangiocytes from liver stem/progenitor cells

Reviewer code: 00058104

Science editor: Song, Xiu-Xia

Date sent for review: 2013-07-25 16:32

Date reviewed: 2013-08-19 07:29

| 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 type="checkbox"/> Grade B: minor language polishing | <input type="checkbox"/> Existed | <input type="checkbox"/> High priority for publication |
| <input 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 type="checkbox"/> Major revision |
| | | <input type="checkbox"/> No records | |

COMMENTS TO AUTHORS

General Comments: This is a very thorough review with collective information regarding this field. The presentation of the manuscript is detailed and structured. There is no innovation or novelty, since this is a review. However, authors could improve the importance of their manuscript if they could provide more information and more details regarding the insights about the future applications of these basic science findings. This would also make the manuscript more interesting for the clinicians, since they constitute the great percentage of readers of this journal.

Specific Comments: **Core Tip:** The section "Core Tip" should be more focused on the description of the review nature of the manuscript. The information that is provided in the "Core Tip" is somehow misleading, as well as, not well understood. Also, the content of this section raises a lot of questions that are not addressed in the manuscript. **Cover Letter:** There is a date of 2004 in the cover letter. No comment for the rest of the cover letter, since it is not going to be published. **Editing Certificate:** This certificate corresponds to a manuscript with different title and additional authors. **Section: "2 The progression of cholangiocytic differentiation"** The phrase: "Bile ducts are formed only around the portal vein" should be considered to change to "Bile ducts are formed only around the portal vein" or to "Bile ducts are formed only around the portal side". **Section: "Conclusions and Future Directions"** It is considered that this section should be extended, providing more information about the future directions and applications of the previously mentioned in the manuscript knowledge.



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|--|--|---|--|
| <input type="checkbox"/> Grade A (Excellent) | <input type="checkbox"/> Grade A: Priority Publishing | Google Search: | <input type="checkbox"/> [Y] Accept |
| <input type="checkbox"/> [Y] Grade B (Very good) | <input type="checkbox"/> [Y] Grade B: minor language polishing | <input type="checkbox"/> [] Existed | <input type="checkbox"/> [] High priority for publication |
| <input 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 |
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| <input type="checkbox"/> [] Grade E (Poor) | <input type="checkbox"/> [] Grade D: rejected | <input type="checkbox"/> [] Existed | <input type="checkbox"/> [] Major revision |
| | | <input type="checkbox"/> [] No records | |

COMMENTS TO AUTHORS

This is a well written review article that elucidates different stages and molecular mechanisms of cholangiocyte differentiation of liver stem cells. The authors have carried out a thorough literature review of the field and summarized nicely the information about various signaling pathways, miRNA regulation of these pathways and their significance in different stages of cholangiocyte differentiation. The review article should be useful to researchers in this field.