Reviewer’s report

Title: HBV-related hepatocarcinogenesis: the role of signalling pathways and innovative ex vivo research models

Version: 0 Date: 29 Mar 2019

Reviewer: Bushra Ijaz

Reviewer’s report:

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Reviewing report for article 'BCAN-D-19-00619' 'HBV and Wnt/Fzd signaling: hepatocarcinogenesis and ex vivo research models' by Joseph Torresi et al.

In this dense review authors discussed two different parts, one about HBV and Wnt/Fzd signaling and in other the different liver models available for study.

The introduction is dedicated to HBV and significance of targeting Ras/Raf/MAPK pathway, Phosphatidylinositol-4,5-bisphosphate 3-kinase (PI3K)/AKT and Wnt signaling. The overall impression is that the text has some merits and represents a significant investment in terms of scientific literature analysis (n=137 references).

The review has scope to publish but before final publication authors need to do some changes. Right now the two parts of the review are left unlinked with each other. Either authors split it in two or add the different studies conducted on Wnt signaling pathway in different model system with relevant to HBV and what differences they can point out.

Is there any reference of liver organoid in relevance of HBV or Wnt signaling pathway?

Please add a paragraph to conclude the review.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
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Yes
Are the conclusions drawn adequately supported by the data shown?
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No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
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Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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