Reviewer's report

Title: Inhibitory short peptides targeting EPS8/ABI1/SOS1 tri-complex suppress invasion and metastasis of ovarian cancer cells

Version: 1 Date: 16 Apr 2019

Reviewer: Bashir Ahmad

Reviewer's report:

The research article "Inhibitory short peptides targeting EPS8/ABI1/SOS1 tri-complex suppress invasion and metastasis of ovarian cancer cells" by Xuechen Yu, et al. provided that the Inhibitory short peptides p+p 8(pppppppvdyedee) and SH3-3(ekvaiydytkddelsfmegaii) treatment may represent a novel therapeutic approach through blocking the ABI1-SOS1 and ABI1-EPS8 interaction, suppress tumour invasion and metastasis. The article is well constructed and will be useful for the readers for future research. However, few minor changes are needed to be addressed.

Comment: 1. On page No. 6, under heading peritoneal metastatic colonization assay, the authors have treat the mice after 24 h of cells injection, although in a previous study by Chen et al, (Integrity of SOS1/EPS8/ABI1 Tri-Complex Determines Ovarian Cancer Metastasis) have develop the tumour in five weeks. Authors need to explain the reason of early treatment.

Comment: 2. In line 55, there is formatting (space) error in the article. Please read carefully and correct.

Comment: 3. In figures legends section, the authors need to increase the font size of labelling's of all figures, otherwise it will be difficult for readers to understand.

Comment: 4. Authors have used very old references and mostly have been used in the Chen et al, (Integrity of SOS1/EPS8/ABI1 Tri-Complex Determines Ovarian Cancer Metastasis) paper, although more than 70% of papers on these three proteins (SOS1, EPS8, ABI1) have been published, during the last 10 years. Therefore, the authors need to use the recent references.
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?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

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

Acceptable

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