Reviewer’s report

Title: Siah1 Proteins Enhance Radiosensitivity of Human Breast Cancer Cells

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Reviewer: Anupama Munshi

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The paper by He et al entitled “Siah 1 proteins enhance radiosensitivity of human breast cancer cells” examines the effect of Siah1, its splice variant Siah1L and the Siah1 mutant with the RING finger deleted (Siah1#R) on radiosensitization of human breast cancer cells.

The manuscript in its present form is unacceptable for publication. Data presented by the authors is not very convincing.

The authors need to address the following concerns:

1. From the data presented it appears that Siah1#R produces some effect on the breast cancer cells but the authors prefer to indicate that there was no effect.

2. What is the status of Siah2 protein in the cell lines listed and what is its contribution.

3. Did the authors try to knockout expression of Siah1 to show its contribution to radiation.

4. Role of beta-catenin and other proteins activated in invasion needs to be demonstrated in a more convincing manner.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

'I declare that I have no competing interests’