Reviewer’s report

Title: MiRNA-200a confers chemoresistance by antagonizing TP53INP1 and YAP1 in human breast cancer

Version: 0 Date: 16 Jun 2017

Reviewer: Sidney Fu

Reviewer’s report:

Overall, this manuscript demonstrates the relationship between miR-200a expression and chemoresistance. The data are solid and convincing. The clinical correlation data in Table 1 implies that the miR-200a specifically correlates to chemoresistance and it is universal in the population studied regardless of other clinical traits. This finding is helpful for more accurate prognosis and effective preoperative chemotherapy strategy.

In the manuscript, the author concluded that miR-200a was overexpressed in gemcitabine resistant breast cancer cells, and inhibition of miR-200a can restore sensitivity to these cells. However, the expression level of miR-200a and the pro-apoptosis marker in the cohort remain unknown (no data shown). It would be useful to at least choose 3-5 patient samples to examine those markers that were examined in the cell lines used in this manuscript. Overall, this finding is still very informative for a more suitable clinical application for those who are less responsive to preoperative chemotherapy.

Other minor issues:

1. Figure 1A error: Platinum should be Platin?

2. Figure 1B-1E legend does not match the figures. It is confused especially for Figure 1B because the cell line in the figure is MDA-MB-231 but in the legend it is ZR-75-30.

3. Page 12, line 25: "directly bind" should be "directly binding"

4. Page 12, line 45, "can clearly" should be "clearly"

5. Page 13, line 3 "bind" should be "binding"

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.

I am able to assess the statistics

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

Needs some language corrections before being published

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