Reviewer's report

Title: Serial Selection for Invasiveness Increases Expression of miR-143/miR-145 in Glioblastoma Cell Lines.

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Reviewer: annie huang

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1. The paper describes miRNA profile of 6(8 is listed in text on p21) on GBM cell lines using miRNAs array - this is shown in Figure 3A. Fig 3B shows a plot of the individually differentially expressed miRNAs. These data needs to be validating either by qPCR or Northern blots as all expression data is an inferred and not truly quantitative.

2. The data in Figure 5 needs more robust controls - what does the signal on the scrambled miRNA look like. The flourescent signal does not allow one to judge the sub-cellular location of the signal. A corresponding H and E as well as non-flourescent hybs , couple with appropraite IHC at least for the endothelial cells need to be shown. Specific location of signals within cells at higher magnification is also important for the reviewer to appreciate whether the signals are comming from the right cell types.

Minor:

1. The significance of the supplemental figure is not clear
2. Fig 2 needs to be summarized more succintly and the raw plots placed in supplemental information

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.