Reviewer’s report

Title: Dysregulated miR-183 Inhibits Migration in Breast Cancer

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Reviewer: pedro gonzalez

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This manuscript reports changes in expression of miR-183 in breast cancer cells, its correlation with expression of the estrogen and HER2/neu receptors, and the identification of Ezrin as a target of miR-183. The manuscript is clearly written and the methods are generally sound. However, there are some major concerns:

-Major Compulsory Revision

1.- The main problem with the manuscript is that that Ezrin has been already validated as a miR-183 target by Wang et al 2008. The paper by Wang et al provided convincing evidence of the targeting of Ezrin as well as the associated effects on cancer cells. Although this paper is cited in the manuscript (Reference 13), there is no mention to the targeting of Ezrin or the resulting effects in cancer cells reported by Wang et al.

2.- The information about the genes present in the PCR arrays used in the study should be made available. The complete list of the genes included in the PCR array should be provided since information about the cancer related genes that do not change with miR-183 is also important.

3.- The title is appropriate, but the abstract should not present Ezrin as a novel target of miR-183.

4.- Since reporting Ezrin a novel miR-183 target is not appropriate, the manuscript would strongly benefit from the inclusion of some new potential mechanism of action of miR-183. The manuscript should probably focus on the new data related to the expression of miR-183 in cancer cells and the association with other variables such as ER, PR, and HER2/neu status. If possible, some specific mechanism for these effects should be provided.

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:
The only potential non-financial competing interest that I may have is that I am currently investigating the role of several microRNAs in cellular senescence and miR-183 is included in these studies.