Author's response to reviews

Title: RNA-binding protein RNPC1: acting as a tumor suppressor in breast cancer

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Author's response to reviews: see over
Dear Editor:

We would like to submit the enclosed manuscript entitled "RNA-binding protein RNPC1: acting as a tumor suppressor in breast cancer" which we wish to be considered for publication in *Breast Cancer Research*. It is an original research.

In this study, we investigated the functional role of RNPC1 in breast cancer. We found that endogenous RNPC1 expression was down-regulated in breast cancer cell lines compared to breast epithelial cells. Functional assays showed ectopic expression of RNPC1 could inhibit breast tumor cell proliferation *in vivo* and *in vitro* through inducing cell cycle arrest, and further suppress tumor cell migration and invasion partly through repressing mutantp53 (mutp53) induced epithelial-mesenchymal transition (EMT). Based on 121 pair of breast cancer and adjacent breast tissue specimens, we found RNPC1 was down-regulated in breast cancer. Furthermore, RNPC1 mRNA expression was significantly associated with clinical stages and mutp53, and RNPC1 protein expression was significantly associated with lymph node metastasis, mutp53 and PR. Our data suggested that RNPC1 might a tumor suppressor in breast cancer and might be a potential therapeutic or prognostic marker.

The manuscript is an original work and has not been submitted or is
under consideration for publication in any other journal. The study complies with current ethical consideration. We also confirm that all the listed authors have participated actively in the study, and have seen and approved the submitted manuscript. None of the authors of this manuscript have a financial interest related to this work.

Thank you very much for your consideration on our manuscript. We are looking forward to your response.

Best Regards,

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