**Author's response to reviews**

**Title:** Hsa-miR-125a-3p and hsa-miR-125a-5p are downregulated in non-small cell lung cancer and have inverse effects on invasion and migration of lung cancer cells.

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**Author's response to reviews:** see over
Dear Editors:

This manuscript, ‘Hsa-miR-125a-3p and hsa-miR-125a-5p are downregulated in non-small cell lung cancer and have inverse effects on invasion and migration of lung cancer cells’, is a revised submission with new line and page numbers in the text, and the major revisions are marked in red. We also responded point-by-point to each reviewer comment below; the reviewer comments are written in blue, and our answers are written in black.

We hope these improvements will make our manuscript acceptable for publication.

-Response to Reviewers-

To reviewer Andreas Keller: Thank you for your constructive recommendations.

1) In the results section authors state that levels "decreased almost in all NSCLCs"? Please give the correct numbers as well as specificity and sensitivity maybe also with AUC values. However, I still can not find the specificity and sensitivity of the miRNAs as well as the AUCs.

We sincerely appreciate your advice and apologize for causing the misunderstanding of the AUC values. ROC Curve was used to analyze the specificity and sensitivity of the miRNAs and shown in additional file 1. The details and AUC values have been added to the revised manuscript and marked in red.

2) For association between expression and pathological stage, WMW test has been applied, 5 lines below for lymph node metastasis the fisher’s exact test. This may be misleading and should be commented by the authors.

Since the data of pathological stage are ranks, the Mann-Whitney test was used to analyze the
relationship between hsa-miR-125a-3p/5p expression and pathological stage. The two-sided Fisher’s exact test was used to determine the relationship between hsa-miR-125a-3p/5p expression and lymph node metastasis because the number of tumors analyzed was less than 5 in the variables. To avoid misleading, we have commented in statistical analysis of methods and marked in red.