Reviewer's report

Title: miR-141 and miR-200b is closely related to invasive ability and considered as decision-making biomarkers for extent of PLND during Cystectomy

Version: 3 Date: 3 December 2014

Reviewer: Dhruva Kumar Mishra

Reviewer's report:

Article entitled "miR-141 and miR-200b is closely related to invasive ability and considered as decision-making biomarkers for extent of PLND during cystectomy" reported the downregulation of miR-200 family miRNAs in bladder cancer tissues vs adjacent tissues and furthermore their (miR-141, miR200b) roles in invasive ability and EMT phenotype of bladder cancer. Additionally, authors found a relationship between urinary miR-200 expression with lymph node metastasis, which can predict the same. I have following major comments:

1. As authors have created the high expressing CRL1749 and low expressing HTB9 stable cancer cell lines by transfecting miR 200 and respective sponges, it would interesting to know their metastatic ability in nu/nu mice. It will further clarify its role in invasion and metastasis.

2. Though authors have shown in Fig 1B, the transduction efficiency of the miRs, I would suggest a figure showing the relative expression of miRs in these stable cell lines after transduction.

3. Authors should provide brief details about miRNA sponge used for this study to inhibit the miRNA function.

Minor comments:

1. Authors should use the Bladder cancer instead of BC in Abstract -Line 5
2. In Methods section (page 4, Line 7), authors should provide City & country name along with University.
3. In discussion (Page 14, line 2), Is it HTB9 or it should be CRL1749?

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests