Reviewer's report

Title: MicroRNA-100 is a potential molecular marker of non-small cell lung cancer and functions as a tumor suppressor by targeting polo-like kinase 1

Version: 2 Date: 1 October 2012

Reviewer: Klaus Strebhardt

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Major Compulsory Revisions

1. page 3 (Methods): The manuscript does not describe the isolation of normal tissue from NSCLC patients and the use of controls (histological inspection, use of proliferation markers). What is the definition of normal tissue?

2. page 7, 2. paragraph: The text refers to Table 2, but not to Table 1. The electronic file contains only Tab.1

3. Several important references, that describe previous work on Plk1 and NSCLC related to this manuscript, are missing and should be added to the text:
   a. page 2, Background, 2. paragraph, line 3: Strebhardt and Ullrich, Nat. Rev., Cancer 2006 contains a list of tumor types and Plk1 overexpression.
   b. page 2, Background, 2. paragraph, line 7: The first report describing Plk1 overexpression in NSCLC should also be cited: Wolf, G. et al., Oncogene. 1997 Feb 6;14(5):543-9.
   c. Two previous reports that describe the downregulation of Plk1 in A549 should be cited:

The effect of miR-100 on IGF-1 and RBSP-3 towards cellular proliferation should be discussed.

Minor Essential Revisions

The spelling throughout the text should be checked carefully, also grammatical errors

some examples:
page 7. as shown in Fig. 2A, there was no ...
page 7, middle part: expression was significantly correlated with poor overall survival
page 11, line 3: experiment

Level of interest: An article of importance in its field
Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.