Reviewer's report

Title: Enhancing SHP-1 expression by 5-Azacytidine may inhibit STAT3 activation and confer sensitivity in Lestaurtinib (CEP-701) resistant FLT3-ITD positive Acute Myeloid Leukemia

Version: 3 Date: 3 May 2015

Reviewer: Friedrich Stölzel

Reviewer's report:

Unfortunately, my Major Compulsory Revisions have mostly not been addressed:

1. While in the last Version microarray data were described, now the authors state that These are not anymore part of the Story...however, they are still described in the M&M section. I do not understand this.

3. I did not ask for editing of figures only. Please see the following remarks from my first Review - These questions have NOT been answered:

b. Figures 1 A – C (although I know that from A to C they are read from left to right, I still need to guess since they are not titled adequately): why is there only one SD shown at 100 nM CEP-701 whereas in A and B 3 to 4 SDs are shown? Were other concentration measurements not performed? If yes, why? If not please do so.

c. It is not described (or it was not mentioned clear enough) whether the baseline proliferation in MV4-11 R-cep cells was also lower? This needs to be shown in order to be in line with the story.

d. Regarding the MTS on the cell line: what happens to MV4-11 (CEP-701 naïve) when being exposed to 5’Aza? This would be interesting to know.

Also my Major Revision #4 which I tried to make clear with 190 words has not been answered by writing 7 words.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests