Author's response to reviews

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

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Author's response to reviews:

Dear editor,

Please find our answers to the comments by the reviewers.

Reviewer 1: Friedrich S.

Major revision
1. From our previous publications and other references, we hypothesized that SHP-1 expression was responsible for the mechanism of action. After performing gene expression microarray, concentrating on JAK/STAT pathway, it was confirmed that SHP-1 expression was responsible. However in this manuscript it is our intention to just mention SHP-1 as the other genes was not able to be confirmed. To improve the manuscript, we have rewritten the introduction and method but did not include microarray.

2. English editing was done by the English Language centre at the institution.

3. Figures have been edited.

4. The title and conclusion have been edited

5. We have not included microarray results in the revised manuscript, thus a complete microarray data is not provided.

Minor revision
1. 5-Aza2dc was clarified as a demethylating agent (line 87)

2. Results edited

3. Edited

4. Corrected
Reviewer 2: Juko Ohyashiki

Major criticism
1. DNMT3 down-regulation was shown by microarray and our interest was not the expression of DNMTs but the expression of JAK/STAT negative regulators. In addition, we were interested to look for any downstream effects on STAT activity associated with re-expression of JAK/STAT negative regulators due to 5-Aza treatments.

2. We are not interested in individual cells, however the cells population showed re-expression of SHP-1.

Minor criticism
1. Figures edited

2. Corrected