Reviewer’s report

Title: Synergetic downregulation of 67kDa laminin receptor by the green tea (Camellia sinensis) secondary plant compound epigallocatechin gallate: a new gateway in metastasis prevention?

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Reviewer: Markus Helfer

Reviewer’s report:

The authors unveiled an interesting set of facts concerning EGCGs possible ability to interfere with metastasis development. As EGCG is the subject of many studies among different life-sciences, the present study fits quite well into the corresponding fields of interest. The methodology consulted by the authors to get insight into the described mode of action is state of the art and obviously all presented experiments were performed in an accurate and critical approach. The complexity of the presented data and conclusions is addressed well and understandable throughout the whole article.

Minor Essential Revisions:

1: Though I understand the meaning of it, it is not completely clear to me why the authors apply the Principal Component Analysis. What are the benefits compared to the bar graphs?

2: The present study combines two kinds of treatment: Drug treatments in different concentrations and co-treatments with different RNAi-knockdowns. However, within these treatment scenarios I miss the combination when EGCG is applied alone and hence no siRNA-expression is induced

3: In Line 250/251 the authors declare green tea to be most effective in the gastrointestinal tract. Because EGCG has not been tested with other cell-types in the present study, I would suggest the authors not to trivialize the observed effects.

Discretionary Revisions:

4: According to the available literature EGCG is an intensively studied compound throughout many scientific disciplines. Therefore I would suggest the authors may replace the term "ET" in figures by EGCG. Furthermore the "T" represents on the one hand "Treatment" (ET) on the other hand "Targeting" (TV). This may be misleading for readers.

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