Reviewer's report

Title: In vitro and in vivo anticancer properties of a Calcarea carbonica derivative complex (M8) treatment in a murine melanoma model

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Reviewer: Hiroaki Sakurai

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The manuscript by Guimaraes et al. describes that Calcarea carbonica derivative M8 has anti-cancer activities in vivo and in vitro. The subject of the manuscript is interesting; however, there are significant issues in experimental design.

Major Compulsory Revisions

1. The results in Fig. 3. do not show the anti-metastatic activity of M8. The statistical test should be tested in group c (vehicle) vs d (M8 treated).
2. Fig. 2: It is necessary to count the cell number in at least three fields and the data should be tested the significance.

Level of interest: An article of limited interest

Quality of written English: Needs some language corrections before being published

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