Reviewer's report

Title: alpha-Mangostin extracted from the pericarp of the mangosteen (Garcinia mangostana Linn) reduces tumor growth and lymph node metastasis in an immunocompetent xenograft model of metastatic mammary cancer carrying a p53 mutation

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Reviewer: Airo TSUBURA

Reviewer's report:

Discretionary Revisions:
Authors have evaluated anti-carcinogenic effects of alpha-mangostin in vivo and in vitro. As a result, 20 mg/kg alpha-mangostin per day was effective suppressing BJMC3879luc2 cell growth through involvement of apoptosis and cell cycle arrest. The experiments are well performed and the results are clear, thus the reviewer consider the manuscript is acceptable to BMC Medicine. However, after considering several points listed below may improve the value of the manuscript.

1. For universality of the alpha-mangostin evaluation, tell the reader whether it can be purchased from the market.
2. Explain more why some of the experiments were done using MDA-MB-231 cells.
3. Are there any evidence that alpha-mangostin are effective suppressing the growth of human breast cancer cell lines?

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.