Reviewer's report

Title: Anti-proliferative and anti-adhesive effects of four plant extracts on the breast cancer cell line MCF-7

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Reviewer: Heonyong Park

Reviewer's report:

Major comments

1. Generally, this manuscript is interesting in terms of pharmaceutical applications of natural compounds. However, cellular functions authors observed are not tightly linked, thus not providing solid pharmaceutical activities of each extract. Regarding detachment, degree of detachment is not matched with expressions of integrin beta 1, indicating that integrin beta 1 does not appear to be an important molecules for detachment in this experimental condition. Therefore, authors have to find other adhesion molecules which play an important role in this detachment.

2. For apoptosis analysis, Annexin V staining is more important than PI staining, but authors estimated apoptosis by PI staining. Therefore, authors have to execute other apoptotic assays to confirm their hypothesis.

Minor comment

1. There is no control blot in Fig. 4. Membrane marker or cytosol marker should be shown

Level of interest: An article of insufficient interest to warrant publication in a scientific/medical journal

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests.