Reviewer's report

Title: Dietary grape polyphenol resveratrol increases mammary tumor growth and metastasis in immunocompromised mice

Version: 2 Date: 21 August 2012

Reviewer: Tinatin Chikovani

Reviewer's report:

Research question is very clear and straightforward described. Research methods are in good compliance with described objectives.

Data are very important. The authors clearly demonstrate breast cancer promotion via low concentrations of resveratrol, compound known for its anti-cancer potential. The research outcomes of the present study prove inevitability of caution approach to the clinical trials of resveratrol as well as other nutritional compounds.

Manuscript adheres to the relevant standards for reporting and data deposition. Discussion and conclusions are well balanced and adequately supported by the data.

Authors clearly demonstrated that resveratrol effects at physiologic concentrations had not been studied yet and it requires further investigation. It is necessary to study the effects of dietary concentrations of resveratrol on growth of other tumor types.

Authors clearly acknowledge the previous works on the topic. On their bases they are bringing new light to effects of physiological doses of reveratrol in case of mammary tumor.

Title and abstract accurately convey what has been found.

Writing language complies with academic style and professional standards.

Level of interest: An article of outstanding merit and interest in its field

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.