Reviewer's report

Title: Annona muricata Leaves Induced Apoptosis in A549 Cells through Mitochondrial-Mediated Pathway and Involvement of NF-kB

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Reviewer: Qingyong Chen

Reviewer's report:

In the manuscript, the authors studied the effects of muricata leaves ethyl acetate extract on lung cancer A549 cells. They showed that ethyl acetate extract of Annona muricata inhibited A549 cell proliferation, and molecular mechanisms was related to cell cycle arrest, activation of the mitochondrial-mediated signaling pathway and suppression of NF-κB translocation. The results and conclusions have not been reported by others before. Therefore, the finding was very interesting and meaningful. In addition, the experiments in this study are also well designed.

Minor point:
1. Extraction procedures described in Methods should be given more details, such as extract time. Whether solvent affect the results? Why the author did not set a solvent control group?
2. What does the 100 in Table 1 mean? Which should be explain under the table.

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