Reviewer’s report

Title: Aqueous Extracts of Pluchea indica (L.) Less. Inhibit Proliferation and Migration of Cancer Cells Through Induction of p53-dependent Apoptosis

Version: 1 Date: 10 April 2012

Reviewer: praveen rishi

Reviewer’s report:

Major Essential Revisions:
1. The methodology for in vitro "scratch" wound closure assay needs to be elaborated to make it more clearer.
2. How the samples were prepared before carrying out Western blotting?
3. The observation describing fig. 5 are not clear. Moreover, the legend for the same needs to be clarified in view of the percentages indicating live, apoptotic and necroting cells in different quadrants.
4. The major issue is regarding the lack of correlation amongst the parameters. Although the authors have shown the expression of p53 dependent apoptosis but they have not shown any correlation with the effector molecules such as cytokines or inflammatory molecules like LPO or NO which would actually affect the proliferation or the migration of the cells.

Minor Essential Revisions:
1. There are many sentences which needs to be reframed therefore the manuscript should be carefully edited.
2. Discussion part needs to be improved to explain the underlying mechanism.
3. In the bibliography Journal of Clinical Oncology may be checked.

Level of interest: An article whose findings are important to those with closely related research interests

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

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I declare that I have no competing interests