Reviewer's report

Title: In vitro cytotoxicity of Artemisia vulgaris L. essential oil is mediated by a mitochondria-dependent apoptosis in HL-60 leukemic cell line

Version: 1 Date: 14 April 2014

Reviewer: Oluyomi Adeyemi

Reviewer's report:

I have few comments as follows:

Minor Essential Revisions

1. In view of the numerous studies already published by other investigators, can authors state in clear terms how their findings differ from those?

2. Study did not include positive and negative controls

3. What is the solvent and percentage used for administration of test compounds? Was the activity due the solvent accounted for in estimation of viability %?

4. Did authors include positive control for the apoptotic study?

5. Can authors appraise their findings in the context of previous reports on the subject matter highlighting the major and new contribution to knowledge?

Discretionary Revisions:

1. Authors used several cancer cell types but chose the HL-60 cells only for apoptotic study. Why?

Level of interest: An article of importance in its field

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

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

None declared