Reviewer’s report

Title: Kalanchoe tubiflora extract inhibits cell proliferation by affecting the mitotic apparatus.

Version: 2 Date: 11 July 2012

Reviewer: Ling-Huei Yih

Reviewer’s report:

The authors have responded to all my comments. There are a few additional comments (Discretionary Revisions):

1. Since the goal of this study is to characterize the anti-cancer effect of KT-NB and the findings in this study do not support the property of KT as a “medicinal wound healing agent”, please consider removing this description (KT as a medicinal wound healing agent) from “Background” of abstract.

2. Please consider including all the quantification data of each cell cycle stage shown in Fig. 4A (i.e., sub-G1, G1, S, G2/M, and >G2) into one figure (or one table). The results that KT treatment induced an accumulation of G2/M cell at 24 h, an increase of cells with >G2 DNA content at 48 h, and increases of sub-G1 cells at 48 and 72 h might provide evidence for the cause-and-effect relationship of spindle multipolarity/chromosome mis-alignment and cell death induced by KT.

3. In addition to inhibit cell proliferation, inhibition of cell migration also is one of the critical mechanisms for effective anti-cancer drugs. However, whether KT-NB-induced inhibition of cell migration was due to its effect on mitotic spindles or induction of cell death is not discussed.

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

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.