Reviewer's report

Title: Anti-inflammatory and Anti-cancer Activity of Mulberry (Morus alba L.) root bark

Version: 1 Date: 24 April 2014

Reviewer: Tuzz-Ying Ying Song

Reviewer's report:

1. The authors should identify the major active components that exert anticancer and anti-inflammatory effects in MRBE.

2. How did the authors measure NO level secreted by Raw 264.7? Because there is no data on the cell viability of RAW264.7 treated by MRBE (5-50 ug/ml), how did the authors confirm whether the decrease of cell viability induced by MRBE was due to the inhibitory of NO level or MRBE blocked NO production via suppressing iNOS over-expression in LPS-stimulated RAW264.7 cells?

3. The authors should explain more clearly about why proteosomal degradation induced by MRBE can promote NF-kB translocation into nucleus.

4. MRBE seems to be a non-polar extracts, what kind of compounds could enter the cells to exert the anti-inflammatory and anti-cancer Activity? The authors should provide more details.

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

Declaration of competing interests:

I declare that I have no competing interests