Reviewer's report

Title: Morus alba and active compound oxyresveratrol exert anti-inflammatory activity via inhibition of leukocyte migration involving MEK/ERK signaling

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Reviewer: Kevin Chen

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This is the first paper which identified oxyresveratrol as the anti-inflammatory compound in Morus alba. The inhibition of cell migration of oxyresveratrol has been demonstrated in a tumor cell line Jurkat via surface receptor CXCR4. The first part of paper described the isolation and purification of the compound from related species. It may not be wise to used these compound to identify the morphological similar species by secondary metabolites because too many factors can easily altered the HPLC profile. DNA fingerprinting may be a better way to use.

Jurat cell is not a normal leukocyte. Either more experiment can be done with normal leukocytes or a selection of proper wording can address the issue.

Tumor cell (glioma) migration may be another important area oxyresveratrol can be evaluated to extent the significant of this new discovery. I am looking forward to see this paper to be published.

Level of interest: An article of outstanding merit and interest 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:

None