Reviewer's report

Title: Vasorelaxant effect of Prunus yedoensis bark

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Reviewer: Hyunsu Bae

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The article "Vasorelaxant effect of Prunus yedoensis bark" by Lee et al. describes thorough fundamental study devoted to understanding of the mechanism of the vasorelaxant effect of Prunus yedoensis bark (MEPY) for treatment of hypertension.

In general, the article is well and logically written and the data presented are interesting and original. The authors use a isolated thoracic aortic ring from rat to evaluate the vasorelaxant effect to conclude that the MEPY exerts its vasorelaxant effects via the activation of NO formation by means of L-Arg and NO-cGMP pathways and via the blockage of extracellular Ca2+ channels.

This is an interesting result which might also have important implications in the treatment of hypertension.

Major comments,

1. The figure legend in this manuscript is too simple to understand. It should contain enough information about the experimental details.

2. In background, author should describe more extensively why PY was selected (for exemple: the detailed method and results of in vitro screening study etc..).

Minor corrections

1. In this manuscript, the botanical name should be corrected. The accepted name of this plant is Prunus yedoensis Matsum. according to Tropicos and The Global Compositae checklist. Thus it is need to correct the botanical name in the title and background.

2. Please carefully check the references style according to the journal guidelines. (http://www.biomedcentral.com/bmccomplementalternmed/authors/instructions/researcharticle#formatting-references)

3. The expression of weights and measures are mixed in this manuscript. (ex. µM, μM). Please check carefully.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Needs some language corrections before being published
Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

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