Author’s response to reviews

Title: Ethanolic extract of Streblus asper leaves protects against glutamate-induced toxicity in HT22 hippocampal neuronal cells and extends lifespan of Caenorhabditis elegans

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Author’s response to reviews:

Editor
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Dear Dr Sun Kwang Kim

We would like to thank you for giving us the opportunity to resubmit a revised version of manuscript “Ethanolic extract of Streblus asper leaves protects against glutamate-induced toxicity in HT22 hippocampal neuronal cells and extends lifespan of Caenorhabditis elegans” (BCAM-D-17-01243), which you will find uploaded alongside this letter. We would also appreciate the reviewers for the positive feedback and helpful comments for correction and modification. We have thoroughly addressed all of the points that the reviewers indicated and all authors have approved the final form of this revision.

Below is our point-by-point response to the reviewer comments.

Woong Mo Yang, Ph.D., K.M.D. (Reviewer 1):
The manuscript described the longevity and neuroprotective effect of S. asper leaf extracts (SA-EE) against glutamate oxidative toxicity and the underlying mechanism. Although the experiments seem interesting but minor issues should be revised.

In Abstract, the contents of 'Background' need to be summarized.

We have rewritten the 'Background' in Abstract section, line 22-27, page 2.

In Methods section, it is recommended to include the reference for concentration (1mM) of H2O2.

We have added the text stated that 1mM H2O2 was used as positive control with the reference for its concentration in Methods section, line 156-157, page 7 and line 217-218, page 10.

In figure 1B, significance sign is missing.

    We have added significance sign in figure 1B.

Ik-Huyn Cho (Reviewer 2):

Authors have demonstrated that SA-EE protects against glutamate-induced toxicity in HT22 hippocampal neuronal cells and extends lifespan of C. elegans. SA-EE possesses both longevity effects and neuroprotective activity against glutamate-induced cell death, supporting its therapeutic potential for the treatment of age-associated neurodegenerative diseases. The manuscript is very interested, designed well, and described well. Thus the manuscript is acceptable to be published in BMC Complementary and Alternative Medicine.

    We sincerely thank the reviewer for appreciation of our work.

Additionally, we have included Miss Varaporn Rakkhitawathana for her help in plant extraction in Acknowledgments section, line 493-494, page 23. We have also made change in figure 4B by relabeling from “H2O2 (1mM)” to “Glutamate (5mM)” and vice versa.

    We hope that the present revised version of the manuscript meets the quality standard for publication in your prestigious journal. We look forward to hearing from you soon.
Sincerely yours,

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"The authors' response letter has been included as a supplementary file"