Author's response to reviews

Title: Anti-angiogenic potential of an ethanol extract of Annona atemoya seeds in vitro and in vivo

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Dear the Editor in Chief of *BMC Complementary & Alternative Medicine*.

We are now submitting the manuscript entitled; “Anti-angiogenic Potential of an Ethanol Extract of *Annona atemoya* Seeds in vitro and in vivo” by Yi, Park, Lee, Hong, Bang, and myself. Please review this manuscript for publication in the “*BMC Complementary & Alternative Medicine*” as a “Research Articles.”

Angiogenesis, a process of new vessel growth from pre-existing ones, plays a key role in tumor growth and development and therefore, the inhibition of angiogenesis is one of strategies for anticancer drug development. Based on our preliminary drug screening, the seed of a tropical fruits, *Annona atemoya*, exhibited potent anti-angiogenic activity in vitro. There are limited scientific reports showing the cytotoxic activity of the single components isolated from *A. atemoya* against human cancer cells. To our knowledge, however, no studies have been done to report the effect of its crude extract or other forms on tumor angiogenesis. Here, we first demonstrated that the ethanol extract of *A. atemoya* exhibits a potent anti-angiogenic activities in vitro and in vivo. In addition, we suggested the feasible mechanism underlying its anti-angiogenic potential. Our findings may reinforce the importance of herb extract or its derivatives for development of anticancer agents.

The keywords we chose for this manuscript are listed as follows; *Annona atemoya*; angiogenesis; anticancer; HIF; VEGF.

The authors have declared that no competing interests exist.

We really appreciate your time for reviewing our manuscript.

Sincerely,

No Soo Kim, Ph.D., Principal Researcher.