Author’s response to reviews

Title: PAMs Inhibits Monoamine Oxidase A Activity and Reduces Glioma Tumor Growth, a Potential Adjuvant Treatment for Glioma

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Author’s response to reviews:

June 1, 2020
Editor, BMC Complementary Medicine and Therapies

Dear Dr. Pradeep Kumar,

Thank you very much for letting us know that based on your and reviewers’ assessment our revised manuscript is potentially acceptable for publication in BMC Complementary Medicine and Therapies, once we revised our manuscript as suggested by Reviewer 3. We appreciate your valuable time to review our manuscript, and hope this revised version is ready for publication.

Reviewer 3’s comments
Authors have responded to my comments. I am not totally convinced about the toxicity of PAMs in normal cell lines. Particularly having to do with MAO A activity. I suppose MAO activity may not be required for PAMs to cause toxicity in other cells beside the target one. More so, the IC50 values of PAMs for the assays presented here are above 100 ug/mL but authors reported no toxicity in HACAT at 16 ug/mL. My concerns however do not invalidate the findings and conclusion of this study. Authors may wish to include this as part of future investigation.

Response:

Yes, we agree with reviewer’s comments that the toxicity of PAMs in normal cells may not require MAO A activity, thus even though there is no MAO A activity in normal cells, the toxicity of PAMs remained to be studied. Further, we agree with the reviewer that the IC50 value of PAMs to cause
toxicity in cancer cell lines are above 100 µg/ml, no toxicity in HACAT at 16 µg/ml, does not support the idea that no toxicity in normal cells. Thus we now revised the sentence in the discussion. It is "The effects of PAMs on normal glia cells are currently under investigation" page 14, line 325-326. We hope with this revision, our paper is now acceptable for publication. Thank you very much for your kindest consideration and earliest reply,

Sincerely,

Jean C. Shih, Ph.D.

University Professor
Boyd and Elsie Welin Professor
University of Southern California