Reviewer's report

Title: Analysis of glycation induced protein cross-linking inhibitory effects of some antidiabetic plants and spices

Version: 2 Date: 18 January 2015

Reviewer: fawzi mahomoodally

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Minor essential revisions:

Abstract: Please abbreviate all plants and not only PD, PE and PM to be consistent throughout

Background, line 95- define RAGE

Though instructive, I suggest to remove figure 1 in the background section.

Methods

Authority name of the plants should be included. Kindly highlight if any of the plant is endemic to the region

Merge section anti-diabetic plants and spices

change heading 'Detection of glycation induced protein cross-linking inhibitory potential of medicinal plants' to 'Detection of glycation induced protein cross-linking'

line 154-156: "A positive control was prepared in presence of fructose without plant extract:. I believe a positive control is with a known inhibitor, per se, AG. Revise both sentences and merge.

Also how were the figures/snap generated!

Results:

line 187: Authors mentioned IC50 values and hereafter: How were these calculated? Methodology behind this calculation should be included in the Method section.

Discussion

line 272; change 'by us' to previously

Line 275-276. "Hence, our......" Kindly rephrase this sentence to avoid premature conclusion without in vivo or clinical studies.

line 291-292: rephrase "We could not find any previous reports on any sort of antiglycating effects of FR, GS, PD and SP plant parts other than our own report published recently".
line 294: (whole plant)

I suggest paragraph 303-310 be removed as antioxidant assays are part of this manuscript and is very speculative.

369-371: Remove sentence

Conclusion: Weak conclusion. Remove 'and' between P. emblica fruit and P. marsupium latex. also briefly add how this study has established novel data and/or confirmed previous studies.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.