Reviewer’s report

Title: Effects of polyphenols and lipids from Pennisetum glaucum grains on T-cell activation: modulation of Ca2+ and ERK1/ERK2 signaling

Version: 3
Date: 9 September 2015
Reviewer: Roshnara Mishra

Reviewer's report:

Discretionary Revisions
1. Mentioning n3:n6 ratio and whether it is in required range, will strengthen the claim that the lipid is immunomodulatory.
2. There are few more reports available on beneficial role of pearl millet in health and disease - those references might be added.
3. High concentration of both tannin and total phenol was considered anti-nutritional (Sade, 2009) - a clarification will be appreciated in discussion with regards to its effect on T cell. Whether millet diet can be consumed normally or only as adjuvant for treatment of autoimmune diseases.
4. Rowe et al, 2012 have reported that ferulic acid enhances \( \gamma \delta \)-T cell proliferation - kindly discuss.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests.