Reviewer's report

Title: Ascorbic acid antagonizes resveratrol mediated heme oxygenase-1 but not paraoxonase-1 induction in cultured hepatocytes - role of the redox-regulated transcription factor Nrf2

Version: 1 Date: 27 October 2010

Reviewer: Sorimuthu Subramanian

Reviewer's report:

The authors have stated that both resveratrol and vitamin C are frequently used in complementary and alternative medicine. But relevant reference is not quoted.

The authors have indicated that high concentrations of ascorbic acid increase hydrogen peroxide production. It is contradictory to the normal activity of the Vitamin.

The authors themselves have reported that the vitamin did not exhibit any cytotoxicity up to a concentration of 1000 micromole whereas they have reported toxicity of resveratrol beyond 50 micromole. So the authors need to bridge a balance between Vitamin C and resveratrol. They should have combination of varying concentration of Vitamin C and resveratrol and report for toxic and non toxic limits.

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.

Declaration of competing interests:

I declare that I have no competing interests