



SDI FINAL EVALUATION FORM 1.1

PART 1:

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| Journal Name: | British Journal of Pharmaceutical Research |
| Manuscript Number: | 2013 BJPR 3295 |
| Title of the Manuscript: | Free radical scavenging activities of <i>Nyctanthes arbor-tristis</i> . L on adjuvant induced arthritic rats |

PART 2:

| FINAL EVALUATOR'S comments on revised paper (if any) | Authors' response to final evaluator's comments |
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| <p>Regarding explanation to Fig.2 (the levels of lipid peroxides and activities of antioxidant enzymes in the tissue homogenates were increased in arthritic rats and significantly decreased by ANT treatments), authors describe that over production of oxygen free radicals causes lipid peroxidation and the increase in catalase/GPx activities signifies over production of hydrogen peroxide. Thus, free radical scavenging action of ANT mainly concerns to anti-arthritic activity. In this story, it is reasonable.</p> <p>Also, followings are needed to recheck.</p> <p>1)In the Methods, tissue homogenate was prepared in the presence of 5% TCA followed by centrifugation(reference No.10). I wonder enzyme activities such as SOD, catalase or GpX, were lost (inactivated) by 5% TCA. In the No.10, TCA was used in only GSH assay. Correct homogenizing conditions.</p> <p>#Fig.2; Concerning the unit of SOD activity, it seems to be <u>microgram (or nanogram) of SOD</u> for 50% inhibition of epinephrine autooxidation/mg protein</p> <p>3) Title of Table 3 should be “Activities of membrane marker enzymes in the <u>serum</u> (not tissues) and also sentence on the discussion “A marked increase in were observed in the serum (not <u>joint tissues</u>) of arthritic rats” . These enzymes are marker for liver damage in serum.</p> <p>4) The pictures of histological examinations need the title as Figure 4.</p> | |

Note: Anonymous Reviewer