Reviewer's report

Title: Estrogen-Induced DNA Synthesis in Vascular Endothelial Cells is Mediated by ROS Signaling

Version: 2 Date: 10 January 2006

Reviewer: shampa chatterjee

Reviewer's report:

This paper reports on the increased proliferation of vascular endothelial cells treated with estrogen. Furthermore they show that this proliferation does not occur due to estrogen and its receptor; rather it is ROS mediated.

In the revised version, the authors addressed some of the concerns of this reviewer, such as an explanation of the localization of the ROS etc. However one of the points raised was the identity of the ROS involved. The authors mention that they have carried out experiments using adenoviral MnSOD and catalase. It would be interesting to include these in this study; as it is quite within the scope of this work and that would significantly improve this paper.

What next?: Accept after discretionary revisions

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

Quality of written English: Acceptable

Statistical review: No

Declaration of competing interests:

I declare that I have no competing interests.