Reviewer's report

Title: Effects of tamoxifen on vaginal blood flow and epithelial morphology in the rat.

Version: 1 Date: 2 June 2006

Reviewer: Fernand Labrie

Reviewer's report:

General

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Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)
1) The approximately 20 ng/ml plasma E2 concentration found in ovariectomized animals strongly suggests a specificity problem with the assay used. Plasma E2 should be measured by mass spectrometry.
2) The morphology should be described in greater detail: Laminar propria, muscularis?

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

Minor essential revisions:
1) Fig 6 and legend,
Please identify the various groups in the legend and on the figure
2) Page 12, second paragraph
Please explain the data in more detail
3) The discussion should be centered on the observations made. General discussions such as of the mechanism of action of estrogen, co-activators should be markedly reduced or removed. A total reduction of the discussion by one third would seem reasonable.
4) It should be clearly stated that the specificity of the effect of tamoxifen can be different in the human and rat.

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Discretionary Revisions (which the author can choose to ignore)

What next?: Accept after minor essential revisions

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: No