Reviewer’s report

Title: Pregnane X receptor is expressed in human breast carcinomas. Potential heterodimer formation between PXR and RXR-alpha

Version: 1 Date: 20 February 2008

Reviewer: Shinichi Tsutsui

Reviewer’s report:

The authors described that their results suggested that PXR might be involved in the development of endocrine therapies resistance and in cancer progression in the Conclusion of the Abstract. However, they showed PXR to be associated with a postoperative recurrence in 38 patients. I do not think that this finding means endocrine therapy resistance. PXR might be a postoperative prognostic factor, but not predictive factor. The terms of first group (page4, L24) and second group (L26) should be defined. How many patients underwent postoperative endocrine therapy or chemotherapy? Did all patients underwent only endocrine therapy? Analysis for postoperative recurrence should be using survival curve analyses such as Kaplan Meier method with a log-rank test.

What next?: Unable to decide on acceptance or rejection until the authors have responded to the major compulsory 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, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.