Reviewer's report

Title: Cross-species comparison of aCGH data from mouse and human BRCA1- and BRCA2-mutated breast cancers

Version: 2 Date: 30 March 2010

Reviewer: Mitsutaka Kadota

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In this manuscript, Holstege et al. present comprehensive copy number analysis of tumors from BRCA1 and BRCA2 mutant mouse models using BAC CGH arrays, and the relevance of mouse tumors to human BRCA1 and BRCA2 mutant tumors. Findings include identification of mutant type specific or species specific genomic regions of gains and losses providing a number of potential novel oncogenes and tumor suppressor genes. There are several minor concerns.

1. In the second paragraph of the result section, where authors describe regions with recurrent gains and losses, it is not described where exactly the aberrations are; 9-cen, 11-tel, 7-tel, and 10-tel are not informative.

2. Some P-values are displayed without hypothesis testing methods. Author should provide further information in the methods section and in the figure legends.

3. Numbering of sub-panels in Figure 1, 3 and 4 does not match the figure legends. Sub-panel numberings in text should also be corrected.

4. Color bars and KSE curves in Figure 4 are not fully described. Authors need to provide information for green, blue and gray bars and curves.

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.