Reviewer’s report

Title: Nuclear Receptor Coregulator SNP Discovery and Impact on Breast Cancer Risk

Version: 1 Date: 13 September 2009

Reviewer: Evgeny Imyanitov

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Major compulsory revisions:

1. Please check the claimed association for rs1804645 with bilaterality of breast cancer. There is 1 TT genotype in 113 bilateral BC cases, and 0 in 1509 controls, so the p value cannot be 0.00025. Similarly, for TT + CT genotypes the frequency of at-risk variants in bilateral BC is 7/113 (6.2%) and in controls is 77/1509 (5.1%). This cannot result in odds ratio 40.00 and p value 0.00026.

Perhaps, all other calculations have to be checked as well.

2. All examined SNPs have to be explicitly listed in the abstract (otherwise the reader gets impression that all SNPs with MAF > 5% have been analyzed).

Minor essential revisions:

Higher number of common SNPs per gene in Blacks versus Whites deserves discussion, with the reference on other studies analyzing SNP patterns in Africans versus Europeans.

It would be helpful to repeat the criteria for cases selection in the “Materials and methods”, despite this information is available in previous publications of the authors.

Level of interest: An article of importance in its field

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