Reviewer’s report

Title: The association of polymorphic markers Arg399Gln of XRCC1 gene, Arg72Pro of TP53 gene and T309G of MDM2 gene with breast cancer in Kyrgyz females

Version: 0 Date: 14 Jul 2017

Reviewer: Mousumi Majumder

Reviewer's report:

This study by Isakova et al is very appropriate and timely. In this case control study, authors showed polymorphisms at XRCC1, TP53 and MDM2 genes are associated with breast cancer. Results are very convincing. Although each one of these genes has been established to be associated with other cancer including breast cancer. In this study authors conducted combine gene effect and established association of allele at XRCC1. Authors need to address following comments.

1. All genes needs to be italicized

2. Please provide demographic detail of samples.

3. If pathological data is known (ER, PR, HER2, tumor stage, grade etc.), it would be interesting to measure the distribution of genotypes and associated allele in triple negative breast cancer samples.

4. MDM2 is a negative regulator of P53; P53 also has DNA repair function. Authors need to explain how combine effect of these three genes polymorphism will effect protein function hence associated with breast cancer.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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