Reviewer’s report

Title: Association of CYP Gene Polymorphisms with Breast Cancer Risk and Prognostic Factors in the Jordanian Population

Version: 0 Date: 13 May 2019

Reviewer: Florin Burada

Reviewer's report:

This is an interesting paper addressing the association between the breast cancer and selected SNPs on CYP genes.

Major

The major limitation of the paper is a relatively small sample size and p-values used in statistical analyses that should be corrected and re-evaluated. The authors should use the adjusted p-value (Bonferonni correction) in the statistical analysis Therefore, the paper needs a major revision regarding this aspect.

Minor

Abstract needs to be corrected. The Aim of the study is not well defined. I suggest to use the paragraph stated at the end of the introduction Also, the results should be written in a clearer manner.

Materials and Methods

- More details about genotyping method should be included
- Please specify the genetic models you used (codominant, dominant, recessive, allelic)
- Also, please specify whether you used conditional or unconditional logistic regression
- Please specify if you tested for linkage disequilibrium between investigated polymorphisms
Results. The authors should mention how associated SNPs influence the risk. In addition, a table with general characteristics of both groups and P values for comparisons between cases and controls on general characteristics need to be reported.

Figure 1 should be excluded.

An associated SNP (e.g. rs762551) showed a marked deviation from Hardy-Weinberg equilibrium and controls might not represent the general population.

Discussion - please include a section that discusses the strength and the limitation of your study and analysis.

Conclusion should be concise and informative.

Both Introduction and Discussion sections should be rewritten in a more concise manner. In my opinion, the entire manuscript needs to be reviewed and edited by a native English speaker.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

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:

Not suitable for publication unless extensively edited
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