Reviewer's report

Title: Association of PALB2 sequence variants with the risk of familial and early-onset breast cancer in a South-American population.

Version: 3
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Reviewer: George Priya Doss C

Reviewer's report:

The manuscript reports "Association of PALB2 sequence variants with the risk of familial and early-onset breast cancer in a South-American population.

The work has been carried out well and the biological relevance of the question addressed is sound. I would recommend acceptance of the manuscript after the major revision:

1. Constructed pedigree are provided in the manuscript. If authors provide it will be very useful.

2. No information as pictorial representation is provided in the manuscript.

3. Authors have performed bioinformatic analysis using PolyPhen2. Based one toll prediction we cant validate a mutation. I request author to perform two more pathogenicity and protein stability tools to predict the impact of mutation.

4. Authors have performed modelling. I just want to know why they performed modelling analysis. There is not even a representation of 3D model.

5. I request authors to validate the impact of mutation at structural level by preforming molecular dynamics simulation analysis.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

No conflict of interest exists.