Reviewer’s report

Title: Polymorphism rs547984 on human chromosome 1q43 is not associated with primary open angle glaucoma in a Saudi cohort

Version: 0 Date: 29 Apr 2017

Reviewer: Lijia CHEN

Reviewer’s report:

This is an interesting paper in which the ZP4 SNP rs547984 was found not to be associated with POAG in a Saudi cohort. The design is straightforward and the study well conducted. The paper is written with clarity.

A major concern is the small sample size (90 cases vs 95 controls) so that the statistical power may not be enough to rule out false negative association. The statistical power should be calculated and discussed.

Only one SNP was included in the study. Therefore it is not powerful enough to rule out the ZP4 gene in POAG. A haplotype tagging SNP association analysis should be a preferred way to fully assess the role of the gene. Otherwise, the authors should discuss the limitation of single SNP analysis.

Level of interest
Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

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

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?
4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal