Reviewer's report

Title: Associations Between Variants on ADIPOQ and ADIPOR1 with Colorectal Cancer Risk: a Chinese Case-control Study and updated Meta-analysis

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Reviewer: Ceres Fernandez-Rozadilla

Reviewer's report:

I am happy with most of the comments on the revisions. However:

- for #Q3: "Under results for genotyping, the authors declare that the T allele carriers at the rs1342387 marker have an 24% decreased risk of CRC with respect to the controls. Please explain how that decrease was calculated", the authors cite a typing error and that the decreased risk is indeed 26%. Calculating the percentage of risk variation is quite straightforward when OR>1, but however, when OR<1, the scale of the risk variation is different (it ranges from 0-1, as compared to the former, which ranges from 1 to infinity). Therefore, the calculation is different. In this case, we must consider the inverse of the OR to perform the calculations. This needs to be corrected in the manuscript before submission.

- #Q4: I do agree with the authors that codependence (LD) between markers is very high, and thus the number of markers is not necessarily a correction factor for multiple testing, but they are indeed performing both 2 types of logistic regression, as well as 2 inheritance models and adjustment for multiple case-scenarios in which different sets of covariates are included, thus correction for multiple testing needs to be addressed in the manuscript if only to reflect on this.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

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