Reviewer’s report

Title: The genetic susceptibility to type 2 diabetes may be modulated by obesity status: implications in association studies

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Reviewer: Johannes A Maassen

Reviewer’s report:

The data presented in this manuscript on the frequency of diabetes-related SNP's are interesting and look sound. I have a few remarks that the authors may consider:

1- Use of word "insulin resistance" genes (table 3). These genes are not true insulin resistance genes, such as those encoding for components of the insulin receptor signalling pathway. They are more related to adipocyte function. The authors may consider choosing another name.

2- Though BMI associates with the risk for developing diabetes, waist-hip ratio shows a stronger association. I was wondering whether the authors have waist-hip ratio data of their cohorts and whether a genetic association analysis has been made based on these data.

What next?: Accept after discretionary revisions

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

no competing interests