Reviewer's report

Title: Suggestive evidence of associations between liver X receptor beta polymorphisms with type 2 diabetes mellitus and obesity in three cohort studies: HUNT 2 (Norway), MONICA (France) and HELENA (Europe)

Version: 2 Date: 9 August 2010

Reviewer: Hans-Ulrich Häring

Reviewer's report:

The revised manuscript by Solaas et al. is not significantly improved and the authors have not sufficiently responded to the reviewers' comments.

Major comments:
1. Bonferroni correction for the number of tested single nucleotide polymorphisms (SNPs) is urgently warranted.
2. It is surprising that NR1H2 variants and measures of obesity did not associate in the meta-analysis comprising the HUNT2 and MONICA studies, though separate analysis of these studies revealed an association between genetic variation in NR1H2 and obesity measures. This finding should be added to the manuscript and thoroughly discussed.

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:

I declare that I have no competing interests.