Reviewer's report

Title: ANGPTL4 variants E40K and T266M are associated with lower fasting triglyceride levels in Non-Hispanic White Americans from the Look AHEAD Clinical Trial

Version: 2 Date: 16 May 2011

Reviewer: Anke Tonjes

Reviewer's report:

The manuscript substantially improved by the adaption based on the reviewer comments.

A few issues still should be considered:

1) The authors should present the results from the association study in the subgroup of subjects without lipid-lowering medication in the manuscript.

2) Units should be consistently presented in SI-units.

3) Genotypic means presented in the analysis adjusted by fasting glucose are slightly different than in table 4 of the manuscript. Please double-check.

4) Page 7/results section: please do not consider r2=0.05 as partial LD.

5) Please include in the discussion that subjects with T2D on a heterogeneous antidiabetic medication were included in the analyses which could have impact on the association results.

Level of interest: An article of importance in its field

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

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

Declaration of competing interests:

'I declare that I have no competing interests'