Reviewer's report

Title: Association between polymorphisms in the adiponectin gene and cardiovascular disease: a meta-analysis

Version: 1 Date: 18 March 2012

Reviewer: Ya-Wei Xu

Reviewer's report:

This study summarized the results of published studies on the association between adiponectin gene polymorphisms and cardiovascular disease. The result of this study is useful for the ongoing genetic epidemiology research in the field. However, a few issues remain.

1. P <0.05 was used in this meta-analysis to identify the presence of potential publication bias. However, in most of the papers, a significance level of 0.1 was used as an indication for the presence of potential publication bias.

2. The authors need to discuss the other meta-analysis that was published on the topic (Claudia Menzaghi et al., Genetic Influences of Adiponectin on Insulin Resistance, Type 2 Diabetes, and Cardiovascular Disease. Diabetes, 2007) which included more studies hence more individuals and 2 other variants of the Adiponectin gene and underscore the main differences between the two studies.

Level of interest: An article of limited interest

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

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