Reviewer's report

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

Version: 2 Date: 2 September 2014

Reviewer: Hilal Ozdag

Reviewer's report:

The study aims to investigate the association between 4 SNPs in ADIPOQ and 2 SNP in ADIPOR1 gene with colorectal cancer (CRC). This association analysis was carried out initially in an hospital based case control study followed by a meta analysis conducted on data retrieved from relevant publications.

Major finding of the study: A SNP, rs1342387, was previously found to be associated with reduced CRC risk. This association could not be confirmed by other studies. Here in this manuscript this association is confirmed in both case-control study the meta-analysis conducted in the present manuscript.

Minor Essential Revisions
1. page 3 line 46 inclusive should be replaced with inconclusive
2. page 5 first sentence
3. page 6 line 106-111
4. page 9 line 182-183
5. page 13 line 263-265
6. page 15 line 300-303 need language correction
3. page 11 line 230 risk is stated as %24 the same risk is stated as %21 on page 15 line 308.
4. Figure 3 is not referred/mentioned in the text.

Major Compulsory Revisions
1. The study investigated rs2221766, 1501200, 266729, rs822395 in ADIPOQ and rs12733285, rs1342387 in ADIPOR1. There is no information on why rs2241766 and rs1501299 were chosed in the introduction. However there is information on rs822396 and rs1063585 which are not investigated in this study. Relevant information on rs2241766 and rs1501299 should be included in the introduction.

2. In the methods section it is stated that a semi-quantitative food frequency questionnaire was filled by cases and controls. However in the manuscript there is no information/observation related to this analysis. Thus there is no results supporting the statement on page 15 sentence starting on line 303 and page 16
sentence on line 318-320. The authors either needs to provide data supporting their statement or they should remove these statements.

4. Supplementary Table 8 should be transformed into a Table 3.

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

**Declaration of competing interests:**

I declare that I have no competing interests