Reviewer’s report

Title: Gene-diet interaction effects on BMI levels in the Singapore Chinese population

Version: 0 Date: 22 Dec 2017

Reviewer: Richard Kreider

Reviewer's report:

This is an interesting study examining the relationship of a number of gene SNP's to diet practices and BMI. I do have some suggestions to improve the paper that should be considered.

1.) You are examining the relationship of gene SNP's to BMI and the Healthy Eating Index (AHEI). Both BMI and the AHEI have limitations. BMI does not account for percent body fat. Leaner individuals with greater muscle mass often classify as obese even though they have low body fat. Additionally, there are well-known limitations in using various dietary frequency, recall, or food logs. Both of these can introduce significant variation and thereby reduce correlations. While this type of study is an important contribution to understanding these relationships, the deficiencies in using BMI and the AHEI need to be highlighted.

2.) You describe the general methods of each study, but need more detail about BMI limitations and relationship to body fat as well as the AHEI. This should include reported validity, test-to-test reliability, and coefficient of variation type of information. You briefly mention limitations, but more detail is needed to help the reader understand this limitation.

3.) Your discussion primarily summarizes results. It should compare your results to other findings. You cite some papers that have previously identified obesity-related SNP's. How does your study compare?

Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
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