Comments to the Editor,

This manuscript studied the association between the 4 SNPs within PPARD and essential hypertension in a large-scale Chinese Han population. In the present study, two SNP of rs9794 and rs2016520 were found significantly associated with risk of essential hypertension. In addition, a significant interaction were identified with. The study was performed rigorously and the findings are interesting. In general, I'd recommend publication if the authors can address the following concerns.

1, For the background section: 1) Please provide GWAS result for these SNPs in the background section if they are included in relevant studies. 2) The selection strategy is not quite explicit.

2, Please provide correlation or the relationship between the main characteristics which were listed in the Table 2.

3, The P-values should be provided in the Table 3.

4, Please check the difference between the The observed allele frequency in the control samples and Hapmap dataset (Han) and 1000 genome project Han dataset. Do they have very large difference?

5, Haplotype based analysis should be provided in the result section.

6, Power estimation should be provided for two non-significantly associated SNPs.

7, The P-value for allele based association should be provided.

8, What’s the structures of the Han populations in the samples? Please provided the proportion of the North Han and South Han.