Author’s response to reviews

**Title:** Genome-wide association study identified ATP6V1H locus influencing cerebrospinal fluid BACE activity

**Authors:**

Hao Hu (qingdaoshennei@163.com)

Hai-Yan Li (yudahai007@163.com)

Jie-Qiong Li (qdljq891124@163.com)

Jin-Tai Yu (yu-jintai@163.com)

Lan Tan (dr.tanlan@163.com)

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Detailed Responses to Reviewers

Response to reviewer #1:

The mds plot shows clearly the presence of genetic outliers. You need to select only individuals of Caucasian ancestry by anchoring hapmap population. Then redo your GWAS using only Caucasian individuals and use 4 components from mds to further adjust any residual stratification. Include both original and after removing outliers mds plots in a suppplentary figure. Also state where your summary statistics will be available in the manuscript.

Response: Thanks for your positive comments. We have removed all genetic outliers and redo the GWAS. We also recheck all the analytic processes in our study. After the adjustment, the results did not change significantly. Original and final MDS plots were shown in attachment 3.