**Pathway analysis of smoking quantity in multiple GWAS identifies cholinergic and sensory pathways**

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Supporting Text S3 - Statistical analysis

Association p-values were calculated for unrelated samples datasets (SAGE and ARIC) employing linear regression models implemented in PLINK v1.07 1, including gender as a covariate. In the case of the SAGE dataset, we also adjusted for alcohol and cocaine dependence and age, which was represented as quartiles (<35; 35-40; 40-45; and ≥45) 2. We employed MERLIN v1.1.2 3 to perform the association test for the family-based OZALC-NAG dataset (fastAssoc option), adjusting for age and gender.

**References**

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