

# Supplementary Material

## Characterizing Clinical and Neuropathological Traits of *APOE* Haplotypes in African Americans and Europeans

**Supplementary Table 1. Analysis of *APOE* haplotypes in individuals with mild cognitive impairment.** A) Haplotype analysis individuals of European descent (EU) in NACC. B) Haplotype analysis in ROSMAP. C) Haplotype analysis of African Americans (AA) in NACC. Odds ratios and *p*-values are obtained from a logistic regression model controlling for confounders and the dosages of the different haplotypes. ε3 is taken as the reference haplotype.

### A) Haplotype analysis individuals of European descent in NACC

Name	Haplotype	Age of onset	MCI	CTR	OR	95% CI	P value
E3	GTC	78.2	0.731	0.77			
E2	GTT	79.9	0.061	0.075	0.8 [0.62-1.03]	8.60E-02	
E4 Ancestral	GCC	73.6	0.04	0.034	1.75 [1.28-2.40]	5.30E-04	
E4 European	ACC	73.5	0.168	0.122	1.87 [1.57-2.22]	1.40E-12	
		677	3797				

### B) Haplotype analysis in ROSMAP

Name	Haplotype	Age of onset	MCI	CTR	OR	95% CI	P value
E3	GTC	88.2	0.797	0.804			
E2	GTT	91.3	0.065	0.104	0.58 [0.41-0.83]	3.10E-03	
E4 Ancestral	GCC		0.026	0.019	1.65 [0.88-3.09]	1.20E-01	
E4 European	ACC	85.8	0.112	0.073	1.69 [1.22-2.33]	1.40E-03	
		362	674				

### C) Haplotype analysis of African Americans in NACC

Name	Haplotype	Age of onset	MCI	CTR	OR	95% CI	P value
E3	GTC	75.3	0.541	0.697			
E2	GTT	73.4	0.122	0.121	1.26 [0.64-2.49]	5.10E-01	
E4 Ancestral	GCC	74	0.286	0.156	2.86 [1.66-4.92]	1.60E-04	
E4 European	ACC	73.8	0.051	0.025	3.02 [1.10-8.25]	3.10E-02	
		49	714				