

**Supplementary table 1: Frequency count (%) and test for Hardy–Weinberg equilibrium of  $\epsilon 2$  and  $\epsilon 4$  of the middle-age and elderly twins APOE genotypes**

APOE genotypes							Total number	$\epsilon 2$ p-value*	$\epsilon 4$ p-value*
Study	$\epsilon 2\epsilon 2$	$\epsilon 2\epsilon 3$	$\epsilon 3\epsilon 3$	$\epsilon 2 \epsilon 4$	$\epsilon 3\epsilon 4$	$\epsilon 4\epsilon 4$			
<b>Total</b>	15 (0.5 %)	388 (13.2 %)	1610 (54.8 %)	83 (2.8 %)	752 (25.6 %)	88 (3.0 %)	2936	0.16	0.90

\* Chi-square test for Hardy-Weinberg equilibrium  
 APOE = apolipoprotein E

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