

## Supplementary Data

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# *PICALM* and *CRI* Variants are not Associated with Sporadic Alzheimer's Disease in Chinese Patients

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Supplementary Table 1  
Age, gender, and score of MMSE in AD patients and control

	Control	AD	<i>p</i>
Number	591	474	
Age (years ± sd)	68.564 ± 9.555	69.447 ± 9.948	0.141
Male/female	224/367	193/281	0.377
MMSE (means ± sd)	27.692 ± 2.997	16.030 ± 6.799	<0.0001
APOEε4 carrier (%)	189 (31.98)	209 (44.09)	<0.0001
APOE ε4ε4 genotype	3 (0.51)	54 (11.39)	<0.0001

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Supplementary Table 2  
Hardy-Weinberg equilibrium of AD patients and controls

SNP	AD (actual)	AD (expected)	Controls (actual)	Controls (expected)
PICALM rs3851179	474 (%)		591 (%)	
AA	55 (11.60)	71 (15.07)	74 (12.52)	93 (15.75)
AG	258 (54.43)	225 (47.50)	321 (54.31)	283 (47.86)
GG	161 (33.97)	178 (37.42)	196 (33.16)	215 (36.39)
A	368 (38.82)		469 (39.68)	
G	580 (61.18)		713 (60.32)	
P	0.077		0.066	
CR1 rs6656401	474 (%)		591 (%)	
AA	1 (0.21)	7 (1.61)	1 (0.17)	3 (0.57)
AG	10 (2.11)	12 (2.50)	7 (1.18)	8 (1.51)
GG	463 (97.68)	462 (97.47)	583 (98.65)	582 (98.48)
A	12 (1.27)		9 (0.76)	
G	936 (98.73)		1173 (99.24)	
P	0.099		0.587	

\* $p < 0.05$ , \*\* $p < 0.01$ .

Supplementary Table 3  
Genotypes and allele frequencies of rs3851179 within PICALM and rs6656401 within CR1

rs3851179	Control (%)	AD (%)	$p$	rs6656401	Control (%)	AD (%)	$p$
Total	591 (%)	474 (%)		Total	591 (%)	474 (%)	
AA	74 (12.52)	55 (11.60)		AA	1 (0.17)	1 (0.21)	
AG	321 (54.31)	258 (54.43)		AG	7 (1.18)	10 (2.11)	
GG	196 (33.16)	161 (33.97)	0.890	GG	583 (98.65)	463 (97.68)	0.482
A frequency	469 (39.68)	368 (38.82)		A frequency	9 (0.76)	12 (1.27)	
G frequency	713 (60.32)	580 (61.18)	0.688	G frequency	1173 (99.24)	936 (98.73)	0.274
Male	224 (%)	193 (%)		Male	224 (%)	193 (%)	
AA	35 (15.63)	25 (12.95)		AA	–	–	
AG	117 (52.23)	108 (55.96)		AG	1 (0.45)	3 (1.55)	
GG	72 (32.14)	60 (31.09)	0.747	GG	223 (99.55)	190 (98.45)	0.247
A frequency	187 (41.74)	158 (40.93)		A frequency	1 (0.22)	3 (0.78)	
G frequency	261 (58.26)	228 (59.07)	0.833	G frequency	447 (99.78)	383 (99.22)	0.248
Female	367 (%)	281 (%)		Female	367 (%)	281 (%)	
AA	39 (10.63)	30 (10.68)		AA	1 (0.27)	1 (0.36)	
AG	204 (55.59)	150 (53.38)		AG	6 (1.64)	7 (2.49)	
GG	124 (33.78)	101 (35.94)	0.837	GG	360 (98.09)	273 (97.15)	0.729
A frequency	282 (38.42)	210 (37.37)		A frequency	8 (1.09)	9 (1.60)	
G frequency	452 (61.58)	352 (62.63)	0.729	G frequency	726 (98.91)	553 (98.40)	0.423
EOAD	211 (%)	167 (%)		EOAD	211 (%)	167 (%)	
AA	29 (13.74)	22 (13.17)		AA	–	–	
AG	115 (54.50)	84 (50.30)		AG	2 (0.95)	8 (4.79)	
GG	67 (31.75)	61 (36.53)	0.618	GG	209 (99.05)	159 (95.21)	0.021
A frequency	173 (41.00)	128 (38.32)		A frequency	2 (0.47)	8 (2.40)	
G frequency	249 (59.00)	206 (61.68)	0.501	G frequency	420 (99.52)	326 (97.60)	0.022
LOAD	380 (%)	307 (%)		LOAD	380 (%)	307 (%)	
AA	45 (11.84)	33 (10.75)		AA	1 (0.26)	1 (0.33)	
AG	206 (54.21)	174 (56.68)		AG	5 (1.32)	2 (0.65)	
GG	129 (33.95)	100 (32.57)	0.794	GG	374 (98.42)	304 (99.02)	0.682
A frequency	296 (38.94)	240 (39.09)		A frequency	7 (0.92)	4 (0.65)	
G frequency	464 (61.06)	374 (60.91)	1.00	G frequency	753 (99.08)	610 (99.35)	0.577
APOE $\epsilon$ 4 carrier	189 (%)	209 (%)		APOE $\epsilon$ 4 carrier	189 (%)	209 (%)	
AA	22 (11.64)	16 (7.66)		AA	1 (0.53)	–	
AG	95 (50.26)	122 (58.37)		AG	1 (0.53)	4 (1.91)	
GG	72 (38.10)	71 (33.97)	0.247	GG	187 (98.94)	205 (98.09)	0.269
A frequency	139 (36.77)	154 (36.85)		A frequency	3 (0.79)	4 (0.96)	
G frequency	239 (63.23)	264 (63.15)	1.00	G frequency	375 (99.21)	414 (99.04)	0.805

Supplementary Table 3  
(Continued)

rs3851179	Control (%)	AD (%)	<i>p</i>	rs6656401	Control (%)	AD (%)	<i>p</i>
APOE ε4 non-carriers	402 (%)	265 (%)		APOE ε4 non-carriers	402 (%)	265 (%)	
AA	52 (12.94)	39 (14.72)		AA	–	1 (0.38)	
AG	226 (56.22)	136 (51.32)		AG	6 (1.49)	6 (2.26)	
GG	124 (30.84)	90 (33.96)	0.458	GG	396 (98.51)	258 (97.36)	0.356
A frequency	330 (41.04)	214 (40.38)		A frequency	6 (0.75)	8 (1.51)	
G frequency	474 (58.96)	316 (59.62)	0.820	G frequency	798 (99.25)	522 (98.49)	0.181

\**p* < 0.05, \*\**p* < 0.01