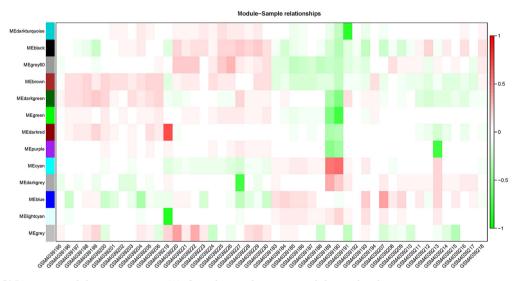


**Figure S1** Identification of DEGs in AD and WT. The red dots represent significantly up-regulated probes, while the blue dots represent significantly down-regulated probes. DEGs, differentially expressed genes; AD, Alzheimer's disease; WT, wild-type.

MEdarkturquoise	1 (0)	0.61 (5e-06)	0.52 (1e-04)	0.44 (0.002)	0.12 (0.4)	0.44 (0.002)	0.087 (0.6)	0.3 (0.04)	-0.53 (1e-04)	-0.33 (0.02)	-0.32 (0.03)	-0.26 (0.08)	0.32 (0.03)	
MEblack	0.61 (5e-06)	1 (0)	0.62 (3e-06)	0.44 (0.002)	0.13 (0.4)	0.57 (2e-05)	-0.057 (0.7)	0.39 (0.006)	-0.64 (1e-06)	-0.38 (0.008)	-0.55 (5e-05)	-0.26 (0.07)	0.26 (0.08)	
MEgrey60	0.52 (1e-04)	0.62 (3e-06)	1 (0)	0.62 (2e-06)	0.15 (0.3)	0.65 (7e-07)	0.11 (0.4)	0.3 (0.04)	-0.69 (7e-08)	-0.23 (0.1)	-0.23 (0.1)	-0.28 (0.05)	0.15 (0.3)	
MEbrown	0.44 (0.002)	0.44 (0.002)	0.62 (2e-06)	1 (0)	0.64 (1e-06)	0.65 (7e-07)	0.33 (0.02)	0.38 (0.008)	-0.55 (5e-05)	-0.33 (0.02)	-0.52 (1e-04)	-0.21 (0.2)	0.26 (0.07)	-0.5
MEdarkgreen	0.12 (0.4)	0.13 (0.4)	0.15 (0.3)	0.64 (1e-06)	1 (0)	0.71 (2e-08)	0.57 (3e-05)	0.58 (1e-05)	-0.57 (2e-05)	-0.59 (1e-05)	-0.29 (0.05)	-0.13 (0.4)	0.12 (0.4)	
MEgreen	0.44 (0.002)	0.57 (2e-05)	0.65 (7e-07)	0.65 (7e-07)	0.71 (2e-08)	1 (0)	0.48 (6e-04)	0.61 (4e-06)	-0.92 (3e-20)	-0.48 (6e-04)	-0.21 (0.2)	-0.31 (0.03)	0.13 (0.4)	
MEdarkred	0.087 (0.6)	-0.057 (0.7)	0.11 (0.4)	0.33 (0.02)	0.57 (3e-05)	0.48 (6e-04)	1 (0)	0.53 (9e-05)	-0.55 (6e-05)	-0.27 (0.06)	-0.21 (0.1)	-0.78 (6e-11)	0.21 (0.1)	- o
MEpurple	0.3 (0.04)	0.39 (0.006)	0.3 (0.04)	0.38 (0.008)	0.58 (1e-05)	0.61 (4e-06)	0.53 (9e-05)	1 (0)	-0.78 (9e-11)	-0.5 (3e-04)	-0.26 (0.08)	-0.33 (0.02)	0.16 (0.3)	
MEcyan	-0.53 (1e-04)	-0.64 (1e-06)	-0.69 (7e-08)	-0.55 (5e-05)	-0.57 (2e-05)	-0.92 (3e-20)	-0.55 (6e-05)	-0.78 (9e-11)	1 (0)	0.54 (7e-05)	0.27 (0.06)	0.47 (7e-04)	-0.21 (0.2)	
MEdarkgrey	-0.33 (0.02)	-0.38 (0.008)	-0.23 (0.1)	-0.33 (0.02)	-0.59 (1e-05)	-0.48 (6e-04)	-0.27 (0.06)	-0.5 (3e-04)	0.54 (7e-05)	1 (0)	0.3 (0.04)	0.11 (0.5)	-0.24 (0.1)	0.5
MEblue	-0.32 (0.03)	-0.55 (5e-05)	-0.23 (0.1)	-0.52 (1e-04)	-0.29 (0.05)	-0.21 (0.2)	-0.21 (0.1)	-0.26 (0.08)	0.27 (0.06)	0.3 (0.04)	1 (0)	0.45 (0.001)	-0.18 (0.2)	
MElightcyan	-0.26 (0.08)	-0.26 (0.07)	-0.28 (0.05)	-0.21 (0.2)	-0.13 (0.4)	-0.31 (0.03)	-0.78 (6e-11)	-0.33 (0.02)	0.47 (7e-04)	0.11 (0.5)	0.45 (0.001)	1 (0)	-0.26 (0.07)	
MEgrey	0.32 (0.03)	0.26 (0.08)	0.15 (0.3)	0.26 (0.07)	0.12 (0.4)	0.13 (0.4)	0.21 (0.1)	0.16 (0.3)	-0.21 (0.2)	-0.24 (0.1)	-0.18 (0.2)	-0.26 (0.07)	1 (0)	<b>LL</b> –1

Module-Module relationships



**Figure S2** WGCNA gene module construction. (A) Correlations between modules; red indicates a positive connection, whereas green indicates a negative correlation. (B) Relationships between modules and samples; red represents a positive correlation and green represents a negative correlation. The abscissa is the sample number. WGCNA, Weighted Gene Co-expression Network Analysis.