

**Supplementary Table 8. The list of genes associated with GJA1 in AD brain tissue.**

<b>gene_name1</b>	<b>gene_name2</b>	<b>cor_r</b>	<b>p-value</b>
GJA1	ADD3	0.802371206904213	1.17341269039321E-21
GJA1	CSRP1	0.820254711108708	2.61773616426948E-23
GJA1	SLC39A12	0.801549080433322	1.38449947933484E-21
GJA1	GABRG3	-0.637275526922121	1.1080578580304E-11
GJA1	GFRA2	-0.607471408	1.71921683018262E-10
GJA1	GJA1	1	0
GJA1	GOT1	-0.608856007508237	1.52315537236684E-10
GJA1	ICA1	-0.602400596892852	2.66545497842034E-10
GJA1	IDH3G	-0.626270516361077	3.15525095511253E-11
GJA1	ATP1A2	0.824295131116415	1.04551338281366E-23
GJA1	NOTCH2	0.808104375749031	3.62158286681252E-22
GJA1	PAX6	0.822685726261586	1.51115845882501E-23
GJA1	GRAMD1C	0.816757790187561	5.68767509823794E-23
GJA1	PLSCR4	0.83129683399707	2.0132995105433E-24
GJA1	RASGRF1	-0.601698028693054	2.83070247178229E-10
GJA1	GRAMD3	0.829356830850272	3.20169444474726E-24
GJA1	BEND5	-0.614344090684302	9.37105215524573E-11
GJA1	CC01	-0.615299465425736	8.60296422575356E-11
GJA1	HSPB3	-0.636926806041838	1.14615294142954E-11