Supplementary Table S1. Common molecular pathways related to the common susceptibility genes.

	Pathways	Genetic products involved	
Inflammation and immunity	MIF mediated glucocorticoid regulation	HDAC9	MMP3
	transendothelial migration of leukocytes	MMP12	MMP3
GPCR	GPCR pathway	HDAC9	MMP12
		MMP3	/
Signal transduction	Signal transduction	ALDH1A2	HDAC9
		MMP3	PCSK6
	Signaling by nuclear receptors	ALDH1A2	MMP3
	ESR-mediated signaling	ALDH1A2	MMP3
	Ethanol effects on histone modifications	ALDH1A2	HDAC9
	Urokinase-type plasminogen activator (uPA) and uPAR-mediated signaling	MMP12	MMP3
	UPA-UPAR pathway	MMP12	MMP3

Abbreviation: ESR: estrogen receptor; GPCR: G protein-coupled receptor; MIF: macrophage-migration inhibitory factor; uPAR: urokinase plasminogen activator receptor; /: blank cell

Supplementary Table S2. Summary of diseases/traits related to the 23 miRNAs in the literature.

MiRNA	Reported diseases/traits	Refs
hsa-miR-204-5p	Adenoid cystic carcinoma of the salivary gland, Alzheimer's disease, axon regeneration, breast cancer, cell-free bone regeneration, diabetic cataract lenses, diabetic retinopathy, depression, gastric cancer, hepatitis C virus infection, human cancers, in vitro fertilization-embryo transfer, laryngeal squamous cell carcinoma, metastatic renal cell carcinoma, periodontitis and periimplantitis, recurrent spontaneous abortion, rheumatic carditis, thyroid carcinoma	[1-20]
hsa-miR-211-5p	Cervical cancer cells, open-angle glaucoma, preeclampsia	[21-23]
hsa-miR-548c-3p	Alcoholic cardiomyopathy, hypopharyngeal cancer, metabolic syndrome, metastatic prostate cancers	[24-27]
hsa-miR-660-3p	Liver fibrosis, osteosarcoma	[28-29]
hsa-miR-10b-3p	Colorectal cancer, hepatocellular carcinoma	[30-31]

hsa-miR-1250-3p	/	
hsa-miR-20a-3p	Glioblastoma, knee osteoarthritis, laryngeal squamous cell carcinoma	[32-34]
hsa-miR-3182	Chronic kidney disease, cleft palate, colorectal cancer, kidney disease	[35-40]
hsa-miR-3662	Adult T-cell leukemia/lymphoma, breast cancer, carcinomas, hematopoiesis and acute myeloid leukemia, hepatocellular carcinoma, lung cancer, lung adenocarcinoma, pancreatic cancer, recurrent miscarriage, thyroid eye disease	[41-55]
hsa-miR-3688-3p	/	
hsa-miR-3919	/	
hsa-miR-4524b-3p	/	
hsa-miR-4755-5p	/	
hsa-miR-4775	Alport syndrome, intervertebral disc degeneration	[56-57]
hsa-miR-5006-3p	/	
hsa-miR-5692a	Livers of type 2 diabetes mellitus, malignancies	[58-59]
hsa-miR-579-3p	Coronavirus replication, prostate cancer, fear and anxiety, metabolic syndrome, Parkinson's disease, sperm	[25,60–64]
hsa-miR-664b-3p	Alzheimer's disease, breast cancer, coronavirus replication, ileocecal adenocarcinoma, vascular disease	[60,65–68]
hsa-miR-6749-3p	/	
hsa-miR-7152-5p	/	
hsa-miR-7515	/	
hsa-miR-8063	Cell migration	[69]
hsa-miR-95-5p	/	

Abbreviation: miRNA: microRNA; /: not available

Supplementary Table S3. The common miRNAs that regulate the shared susceptibility genes of AD and IS.

	The common susceptibility genes of AD and IS									**Dementia causative genes**			**IS causative genes**
	ALDH1A2	*ANKRD22*	*ANTXR1*	*HDAC9*	*JPH3*	*KCNN3*	*MMP3*	*PCSK6*	*RBMS3*	*PSEN1/2*	*APP*	*MAPT*	*Notch3/HTRA1/GLA*
hsa-miR-204-5p	*	*	*	*	*	*	*		*			*	*
hsa-miR-211-5p	*	*	*	*	*	*	*		*				*
hsa-miR-548c-3p		*	*	*	*	*	*	*	*	*	*		*
hsa-miR-660-3p	*	*	*	*	*	*		*	*	*		*	*
hsa-miR-10b-3p	*	*	*	*		*	*		*				
hsa-miR-1250-3p	*	*	*	*		*		*	*		*		
hsa-miR-20a-3p	*	*	*	*		*		*	*				*
hsa-miR-3182		*	*	*	*	*		*	*				*
hsa-miR-3662	*	*	*	*			*	*	*		*		
hsa-miR-3688-3p	*	*	*	*	*	*			*				*
hsa-miR-3919	*	*	*		*	*		*	*				*
hsa-miR-4524b-3p	*	*	*	*	*	*			*			*	
hsa-miR-4755-5p		*	*	*	*	*	*		*		*		
hsa-miR-4775		*	*	*	*	*		*	*		*	*	*
hsa-miR-5006-3p		*	*	*	*	*	*		*		*	*	
hsa-miR-5692a	*	*	*			*	*	*	*		*		*
hsa-miR-579-3p	*	*		*		*	*	*	*		*		
hsa-miR-664b-3p	*	*		*		*	*	*	*	*	*		*
hsa-miR-6749-3p	*	*	*	*	*	*			*	*			
hsa-miR-7152-5p		*	*	*	*	*		*	*	*			*
hsa-miR-7515	*	*	*	*		*		*	*		*		*
hsa-miR-8063	*	*	*	*		*		*	*	*		*	
hsa-miR-95-5p		*	*	*	*	*		*	*	*		*	

Abbreviation: AD: Alzheimer's disease; IS: ischemic stroke; miRNA: microRNA

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