

SUPPLEMENTARY TABLES

Supplementary Table 1. Information on the human brain transcriptome datasets of AD, PD and HD.¹

GEO ID	Samples	Brain region	Platform	Mean PMI
GSE5281 (AD)	87 cases 74 controls	Entorhinal cortex	Affymetrix Human Genome U133 Plus 2.0 Array	All: 2.5 h
		Hippocampus		
		Medial temporal gyrus		
		Posterior cingulate		
		Superior frontal gyrus		
GSE20295 (PD)	40 cases 53 controls	Primary visual cortex	Affymetrix Human Genome U133A Array	Case: 14.0 h Control: 17.1 h
		Prefrontal cortex		
		Putamen		
		Substantia nigra		
GSE3790 (HD)	114 cases 87 controls	Caudate nucleus	Affymetrix Human Genome U133A Array	No information
		Cerebellum		
		Frontal cortex		

¹ All datasets were conducted whole genome microarray expression test using postmortem brain tissues.

Abbreviations: AD: Alzheimer's disease, PD: Parkinson's disease, HD: Huntington's disease, PMI: postmortem interval.

Supplementary Table 2. Information on the human blood transcriptome datasets of AD, PD and HD.

GEO ID	Samples	Tissue	Platform
<i>Experimental dataset</i>			
GSE63060 (AD)	145 cases 104 controls	Blood	Illumina HumanHT-12 V3.0 expression beadchip
GSE99039 (PD)	205 cases 233 controls	Blood	Affymetrix Human Genome U133 Plus 2.0 Array
GSE51799 (HD)	91 cases 33 controls	Blood	Illumina Genome Analyzer IIx (Homo sapiens) Illumina HiSeq 2000 (Homo sapiens)
<i>Validation dataset</i>			
GSE63061 (AD)	140 cases 134 controls	Blood	Illumina HumanHT-12 V4.0 expression beadchip
GSE57475 (PD)	93 cases 49 controls	Blood	Illumina HumanHT-12 V3.0 expression beadchip
GSE1751 (HD)	12 cases 14 controls	Blood	Affymetrix Human Genome U133A Array

Abbreviations: AD: Alzheimer's disease, PD: Parkinson's disease, HD: Huntington's disease.

Supplementary Table 4. Information on the mouse brain transcriptome datasets of AD, PD and HD.

GEO ID	Samples	Brain region	Platform	Animal model
GSE14499 (AD)	16 cases	Entorhinal cortex	Affymetrix Mouse Genome 430 2.0 Array	APP transgenic mice
	10 controls	Hippocampus		
		Frontal cortex		
GSE7707 (PD)	9 cases	Midbrain	Affymetrix Mouse Genome 430 2.0 Array	MPTP-treated mice
	9 controls	Striatum		
GSE9038 (HD)	12 cases	Cerebellum	Affymetrix Mouse Genome 430 2.0 Array	Hdh CAG knock-in mice
	12 controls	Striatum		

Abbreviations: AD: Alzheimer's disease, PD: Parkinson's disease, HD: Huntington's disease.