

	Total	NC	DEM	AD
N	24	8	8	8
Mean Age, years (Range)	72.3 (55-86)	72.5 (70-75)	69.4 (55-86)	75.0 (68-80)
PMI, hours (S.D)	16.8 (5.3)	17.3 (3.9)	19.6 (3.8)	13.3 (7.4)
Gender, Female %	50	50	50	50
ε4 - 0 (%)	7 (29.2)	5 (62.5)	0 (0)	2 (25.0)
ε4 - 1 (%)	12 (50.0)	3 (37.5)	6 (75.0)	3 (37.5)
ε4 - 2 (%)	5 (20.8)	0 (0)	2 (25.0)	3 (37.5)
Cerebral atrophy (%)				
Normal/Unremarkable	10 (41.6)	8 (100)	2 (25.0)	2 (25.0)
Mild-Moderate	6 (25)	0 (0)	6 (75.0)	2 (25.0)
Advanced	8 (33.3)	0 (0)	0 (0)	4 (50.0)
Neocortical neuronal loss (%)				
Normal/Unremarkable	8 (100)	8 (100)	7 (87.5)	0 (0)
Mild-Moderate	0 (0)	0 (0)	0 (0)	0 (0)
Advanced	0 (0)	0 (0)	1 (12.5)	8 (100)
Neocortical amyloid plaques (%)				
Normal/Unremarkable	13 (54.2)	6 (75.0)	7 (87.5)	0 (0)
Mild-Moderate	2 (8.3)	2 (50.0)	0 (0)	0 (0)
Advanced	9 (37.5)	0 (0)	1 (12.5)	8 (100)
Neocortical NFTs and neuritic plaques (%)				
Normal/Unremarkable	13 (54.2)	6 (75.0)	7 (87.5)	0 (0)
Mild-Moderate	2 (8.3)	2 (25.0)	0 (0)	0 (0)
Advanced	9 (37.5)	0 (0)	1 (12.5)	8 (100)
Cerebral vascular atherosclerosis (%)				
Normal/Unremarkable	7 (29.2)	4 (50)	2 (25.0)	1 (12.5)
Mild-Moderate	11 (45.8)	2 (25.0)	5 (62.5)	4 (50.0)
Advanced	6 (25)	2 (25.0)	1 (12.5)	3 (37.5)

Table S2A. Demographics and neuropathology summary of frontal cortex specimen obtained from NeuroBioBank

Subject	Age	Sex	Neuropathology Diagnosis	Neocortical amyloid plaques	Neocortical NFTs
NC-1	72	F	Unremarkable	Unknown	Unknown
NC-2	73	F	Unremarkable	Unknown	Unknown
NC-3	73	F	Unremarkable	Unknown	Unknown
NC-4	70	M	Unremarkable	Unremarkable	Unremarkable
NC-5	70	F	Unremarkable	Unknown	Unknown
NC-6	72	M	Unremarkable	Unremarkable	Unremarkable
NC-7	75	M	Unremarkable	Mild	Mild
NC-8	75	M	Unremarkable	Mild	Mild
DEM-1	59	M	Neuroacanthosis	Negative	Negative
DEM-2	67	M	Lewy body dementia	Remarkable	Remarkable
DEM-3	55	F	Brain pathology consistent with aging	Negative	Negative
DEM-4	83	F	Vascular dementia	Minimal	Negative
DEM-5	72	M	Infarcts in the frontal lobe	Negative	Negative
DEM-6	86	F	Dementia lacking distinct histologic features	Negative	Negative
DEM-7	71	F	Progressive supranuclear palsy	Negative	Negative
DEM-8	62	M	Mini-stroke in brain stem	Negative	Negative
AD-1	68	M	Alzheimer's	Abundant	Abundant
AD-2	70	F	Alzheimer's	Abundant	Abundant
AD-3	76	F	Alzheimer's	Abundant	Abundant
AD-4	80	M	Alzheimer's	Abundant	Abundant
AD-5	73	F	Alzheimer's	Abundant	Abundant
AD-6	78	F	Alzheimer's	Abundant	Abundant
AD-7	77	M	Alzheimer's	Abundant	Abundant
AD-8	78	M	Alzheimer's	Abundant	Abundant

Table S2B. Neuropathology diagnosis of each subject from NeuroBioBank