

Table S1. 60 ROIs with significant differences between AD and NC from ANDI training datasets on AAL atlas.

Brain region(AAL)	Voxels size	Cluster MNI ^k		
		X (mm)	Y (mm)	Z (mm)
Temporal_Mid_L	4414	-6	-22	-54
Temporal_Mid_R	3642	-6	-22	-54
Frontal_Mid_R	3417	-6	-22	-54
Frontal_Mid_L	3366	-6	-22	-54
Occipital_Mid_L	3157	-6	-22	-54
Temporal_Inf_R	3130	-6	-22	-54
Temporal_Inf_L	3100	-6	-22	-54
Precuneus_L	2795	-6	-22	-54
Precuneus_R	2702	-6	-22	-54
Fusiform_R	2422	-6	-22	-54
Frontal_Sup_R	2335	-6	-22	-54
Fusiform_L	2208	-6	-22	-54
Parietal_Inf_L	2107	-6	-22	-54
Temporal_Sup_R	2057	-6	-22	-54
Temporal_Sup_L	2043	-6	-22	-54
Frontal_Sup_L	2031	-6	-22	-54
Lingual_R	1974	-6	-22	-54
Lingual_L	1875	-6	-22	-54
Occipital_Mid_R	1778	-6	-22	-54
Frontal_Inf_Tri_L	1654	-6	-22	-54
Calcarine_L	1596	-6	-22	-54
Precentral_L	1483	-6	-22	-54
SupraMarginal_R	1469	-6	-22	-54
Angular_R	1368	-6	-22	-54
Angular_L	1350	-6	-22	-54

Parietal_Sup_L	1348	-6	-22	-54
Calcarine_R	1314	-6	-22	-54
Cuneus_R	1312	-6	-22	-54
Cuneus_L	1305	-6	-22	-54
Frontal_Inf_Tri_R	1250	-6	-22	-54
Occipital_Sup_R	1189	-6	-22	-54
Parietal_Sup_R	1096	-6	-22	-54
SupraMarginal_L	1070	-6	-22	-54
Occipital_Sup_L	1044	-6	-22	-54
Parietal_Inf_R	990	-6	-22	-54
Postcentral_L	982	-6	-22	-54
Postcentral_R	977	-6	-22	-54
Insula_R	960	-6	-22	-54
Insula_L	958	-6	-22	-54
Cingulum_Ant_L	945	-6	-22	-54
Cingulum_Ant_R	936	-6	-22	-54
Cingulum_Mid_R	929	-6	-22	-54
Cingulum_Mid_L	924	-6	-22	-54
Frontal_Inf_Oper_R	923	-6	-22	-54
Frontal_Inf_Orb_L	844	-6	-22	-54
Precentral_R	838	-6	-22	-54
Supp_Motor_Area_R	792	-6	-22	-54
Frontal_Inf_Orb_R	753	-6	-22	-54
Frontal_Inf_Oper_L	696	-6	-22	-54
Supp_Motor_Area_L	649	-6	-22	-54
Frontal_Med_Orb_R	599	-6	-22	-54
Frontal_Mid_Orb_L	560	-6	-22	-54
Temporal_Pole_Sup_L	558	-6	-22	-54
Temporal_Pole_Sup_R	549	-6	-22	-54

Rolandic_Oper_L	522	-6	-22	-54
Rolandic_Oper_R	513	-6	-22	-54
Caudate_L	760	-12	-6	-8
Caudate_R	574	-12	-6	-8
Thalamus_L	565	-12	-6	-8
Thalamus_R	515	-12	-6	-8

Table S2.Selected features from ADNI cohorts.

Brain region(AAL)	Global features	Texture features			
		GLCM	GLRLM	GLSZM	NGTDM
Cingulum_Mid_L		Contrast		LZE	Complexity, Contrast
Occipital_Mid_L				LZE	
Occipital_Mid_R		Entropy, Dissimilarity		LZE, GLN	Complexity
Fusiform_L				GLN	
Fusiform_R		Entropy	SRE	GLN	
Parietal_Inf_L					Complexity
Angular_R				GLN	
Temporal_Sup_L				GLN, ZP	
Temporal_Sup_R				LZE, GLN	
Temporal_Pole_Sup_R	Kurtosis			LZE	Complexity
Temporal_Inf_L				LZE, GLN	Complexity
Temporal_Inf_R				LZE, GLN	Contrast, Busyness, Complexity

LZE: Large Zone Emphasis; GLN: Gray-Level Nonuniformity; SRE :Short Run Emphasis; ZP: Zone Percentage