

Table S1. Correlations between age, cognitive reserve proxies, brain reserve proxy, and ADAS-Cog scores in CST and TAU groups

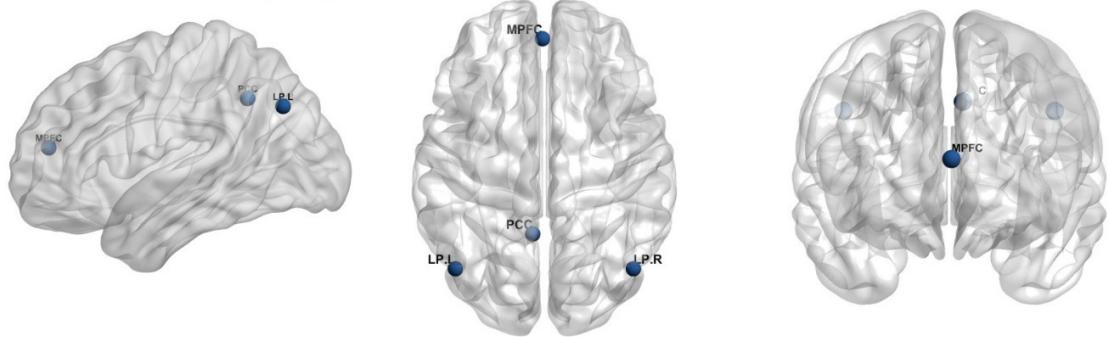
CST group (n=16)	2	3	4	5	6	7	8	9	10	11	12	13	14	T0T1	TG
1 Age, years	0	-0.45	-0.07	0.05	0.62*	0.26	0.33	-0.08	0.5	0.56*	0.47*	0.17	-0.42		
2 Gender, female	--	-0.38	-0.28	0.56*	0.09	-0.04	0.19	0.08	0.05	0.34	0.03	0.43	0.31		
3 Education, years	--	0.25	-0.47	-0.42	-0.37	-0.19	0.33	-0.21	-0.23	-0.15	-0.12	-0.03			
4 Work, years	--	-0.02	-0.19	0.19	0.16	0.17	0.3	0.23	-0.27	0.45*	0.45*	-0.33			
5 Baseline TBV/TICV, %		--	0.09	0	0.38	-0.3	-0.21	0	-0.50*	0.57*	0.57*	0.38			
6 Baseline DMN rs-FC, <i>r</i>			--	0.45	0.16	0.18	0.2	0.2	0.31	-0.14			-0.02		
7 Baseline CEN rs-FC, <i>r</i>				--	0.21	0.12	0.14	0.14	0.04	0.15			0.17		
8 Baseline LAN rs-FC, <i>r</i>					--	-0.11	0.26	0.46	0.3	0.28			-0.11		
9 Baseline CSDD						--	0.36	0.07	-0.03	0.14			-0.17		
10 Baseline HCS							--	0.63*	0.47	0.24			-0.66**		
11 Baseline ADAS-Cog total								--	0.72*	0.41			-0.34		
12 Follow-up ADAS-Cog total									--	-0.34			-0.40		
13 Change in ADAS-Cog total ^a										--			0.06		
TAU group (n=13)	2	3	4	5	6	7	8	9	10	11	12	13	14	T0T1	TG
1 Age, years	-0.08	-0.48	0.1	0.02	0.02	-0.21	-0.1	0.22	0.58	0.29	0.47	-0.29	-0.31		
2 Gender, female	--	0	-0.44	0.21	0.70**	0.4	-0.25	0.37	0.37	0.49	0.31	0.51	-0.11		
3 Education, years	--	-0.43	-0.48	-0.22	-0.33	-0.25	-0.25	-0.05	-0.34	-0.13	-0.13	-0.5	0.16		
4 Work, years	--	-0.07	-0.03	-0.34	0.31	0.11	-0.2	-0.41	-0.42	-0.08	-0.08	-0.33			
5 Baseline TBV/TICV, %		--	0.04	0.51	0.3	0.03	-0.28	0.2	-0.08	0.63*	0.27				
6 Baseline DMN rs-FC, <i>r</i>			--	0.35	-0.17	0.41	0.32	0.19	0.01	0.41	-0.29				
7 Baseline CEN rs-FC, <i>r</i>				--	0.06	0.26	-0.03	0.47	0.3	0.68*	0.01				
8 Baseline LAN rs-FC, <i>r</i>					--	-0.43	-0.46	-0.32	-0.41	0.12	0.16				
9 Baseline CSDD						--	0.83*	0.35	0.31	0.18	-0.49				
10 Baseline HCS							--	0.28	0.39	-0.45	-0.89**				
11 Baseline ADAS-Cog total								--	0.90*	0.46	0.15				
12 Follow-up ADAS-Cog total									--	0.03	0.01				
13 Change in ADAS-Cog total ^a										--	0.31				

CST = Cognitive Stimulation Therapy; TAU = treatment as usual; ADAS-Cog = Alzheimer's Disease Assessment Scale, Cognitive subscale; CSDD = Cornell Scale of Depression in Dementia; HCS = Holden Communication Scale; TICV = total intracranial volume; TBV = total brain volume; DMN = default mode network; CEN = central executive network; LAN = language network; rs-FC = resting-state functional connectivity; T0T1 TG = Time gap between baseline and follow-up behavioral assessments

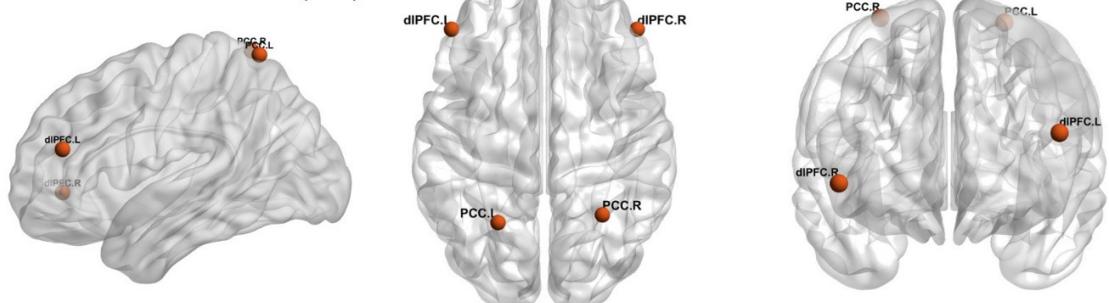
*p<0.05; **p<0.01

^aPositive values signify improvement on ADAS-Cog.

Default Mode Network (DMN)



Central Executive Network (CEN)



Language Network (LAN)

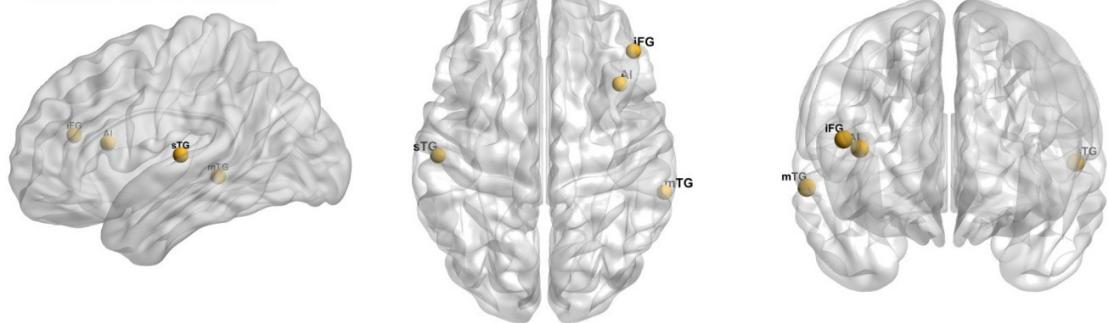


Figure S1. Regions of interest used in the functional connectivity analysis, superimposed on a three-dimensional brain template