

Progressive brain degeneration from subjective cognitive decline to amnesic mild cognitive impairment: evidence from large-scale anatomical connection classification analysis

Supplementary Material

Table S1 Between-group differences in network properties at different thresholds (network-level)

FN threshold	Groups	Eglobal	Elocal	CC	PL
1	HC	11.06 ± 2.64	15.47 ± 3.33	0.02 ± 0.01	0.10 ± 0.02
	SCD	9.61 ± 2.17	14.17 ± 2.99	0.02 ± 0.01	0.11 ± 0.03
	aMCI	7.97 ± 2.16	12.44 ± 2.90	0.02 ± 0.01	0.13 ± 0.04
2	HC	10.63 ± 2.64	15.96 ± 3.51	0.02 ± 0.01	0.10 ± 0.02
	SCD	9.61 ± 2.17	14.36 ± 3.17	0.02 ± 0.01	0.11 ± 0.03
	aMCI	7.97 ± 2.16	12.69 ± 3.16	0.03 ± 0.01	0.13 ± 0.04
3	HC	10.63 ± 2.64	16.29 ± 3.86	0.03 ± 0.01	0.10 ± 0.02
	SCD	9.61 ± 2.17	14.49 ± 3.27	0.02 ± 0.01	0.11 ± 0.03
	aMCI	7.96 ± 2.17	12.77 ± 3.34	0.03 ± 0.01	0.14 ± 0.04
4	HC	10.63 ± 2.64	16.43 ± 3.94	0.03 ± 0.01	0.10 ± 0.02
	SCD	9.60 ± 2.18	14.67 ± 3.50	0.03 ± 0.01	0.11 ± 0.03
	aMCI	7.94 ± 2.18	12.92 ± 3.65	0.03 ± 0.01	0.14 ± 0.04
5	HC	10.63 ± 2.64	16.45 ± 4.00	0.03 ± 0.01	0.10 ± 0.02
	SCD	9.60 ± 2.19	14.56 ± 3.72	0.03 ± 0.01	0.11 ± 0.03
	aMCI	7.91 ± 2.21	12.67 ± 3.79	0.03 ± 0.01	0.14 ± 0.04
10	HC	10.47 ± 2.67	15.36 ± 4.56	0.03 ± 0.01	0.10 ± 0.02
	SCD	9.35 ± 2.26	12.90 ± 4.50	0.03 ± 0.01	0.11 ± 0.03
	aMCI	7.51 ± 2.38	11.37 ± 4.50	0.03 ± 0.01	0.15 ± 0.06

The green part of the table is significantly different from the red part, while the unlabeled color part is not significantly different from any other group.

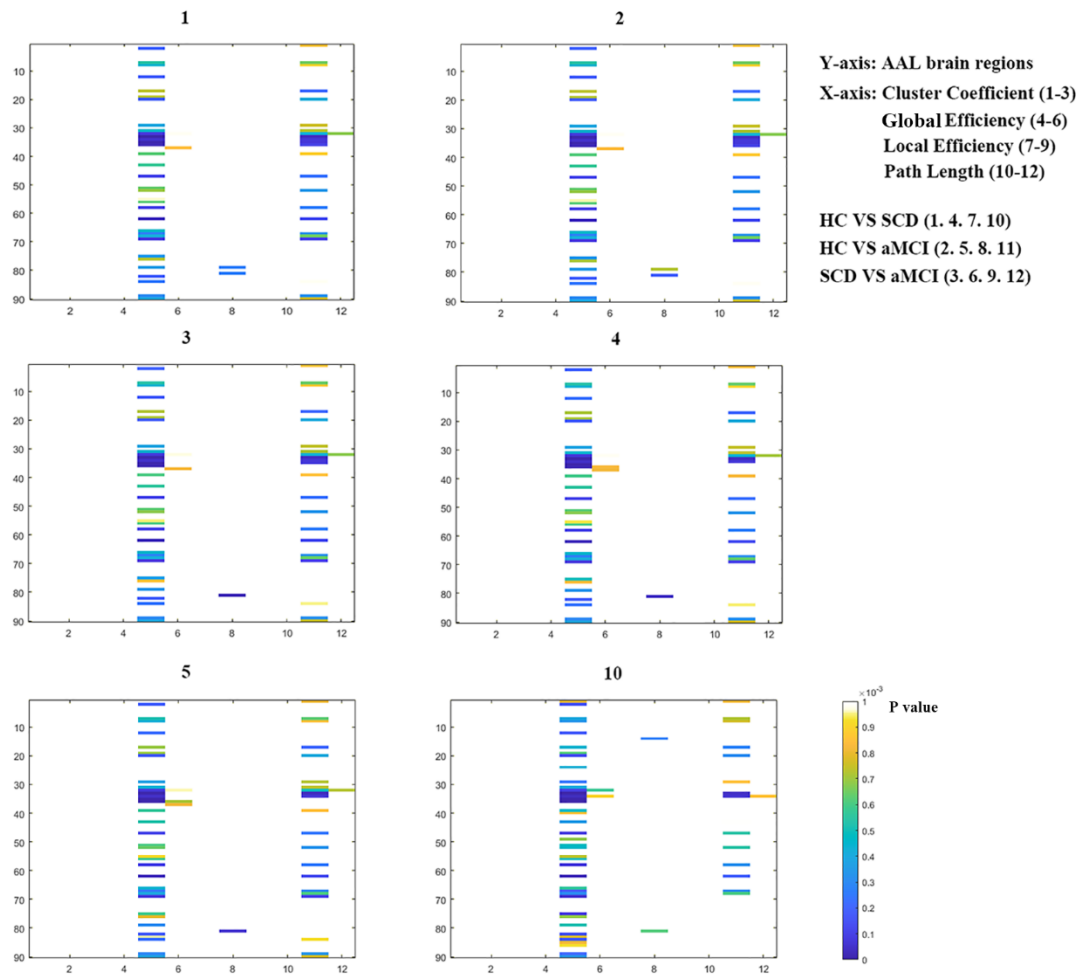


Figure S1. Between-group differences in network properties at different thresholds (at the nodal level). Y-axis of each figure indicates 90 brain regions, x-axis represents different group contrasts on different indexes at the nodal level. More specifically, 1 (cluster coefficient), 4(global efficiency), 6 (local efficiency), 10 (path length) represents contrasts between HC and SCD; 2(cluster coefficient), 5(global efficiency), 8(local efficiency), 11 (path length) represent contrasts between HC and aMCI; 3(cluster coefficient), 6(global efficiency), 9(local efficiency), 12(path length) represent contrast between SCD and aMCI. Numbers above figures represent different FN thresholds.

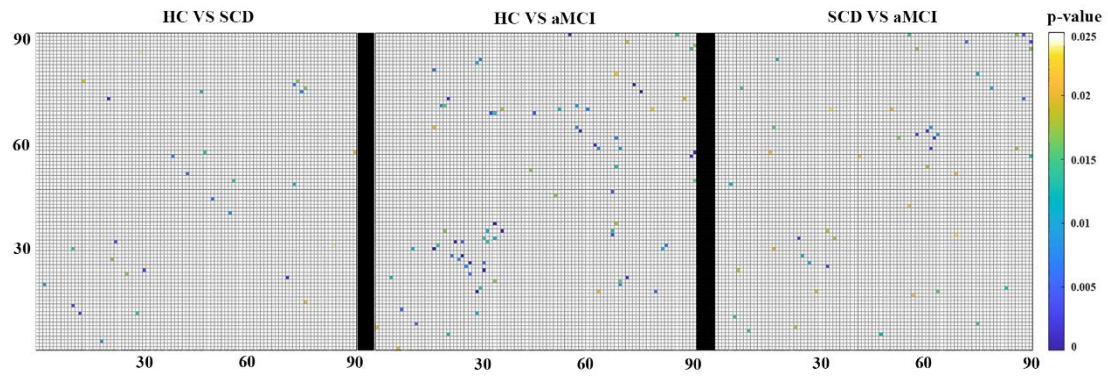


Figure S2 The between-group differences of structural connectivity. Y-axis and X-axis of each figure indicates 90 brain regions. The value in each cell represents p value of group contrast on FN of each white matter across groups.