Table S2: For each hemisphere, similarity measures computed for the group of five individuals that were diagnosed with neurological disease, or for which disease state was unknown. The mean and standard deviation of the similarity measures computed over all possible groups of five individuals is also shown, as well as the rank and percentile of the all-diseased group in the sorted list of similarity measures computed over the 252 possible groups.

	LEFT			
similarity measure	**all diseased**	**all groups**	**rank**	**percentile**
kernel size	4.7	4.7 ± 0.26	137	54
% bluring	32.4	34.0 ± 3.81	89	35
Jaccard coef.	0.58	0.53 ± 0.04	28	11
% overlap	76.3	70.8 ± 3.22	11	4

	RIGHT			
similarity measure	**all diseased**	**all groups**	**rank**	**percentile**
kernel size	5.7	5.4 ± 0.17	228	90
% bluring	35.0	32.9 ± 3.95	170	67
Jaccard coef.	0.46	0.51 ± 0.05	222	88
% overlap	62.2	67.4 ± 4.37	236	94