

Supplementary Table 5: Surface area measurements for regions of Destrieux atlas. Coefficients of variation (CoV) are given as % x 100. Statistically significant differences (at  $p < 0.05$  after FDR correction) of the parameter values and associated CoVs between non-motion corrected and motion corrected datasets are given with \*.

G_and_S_frontomargin		
s. area (1e3 mm <sup>2</sup> )	0.72 ± 0.13	0.80 ± 0.08*
CoV	9.63 ± 10.82	2.98 ± 1.46
ICC	0.65	0.90
G_and_S_occipital_inf		
s. area (1e3 mm <sup>2</sup> )	1.04 ± 0.15	1.11 ± 0.13*
CoV	6.38 ± 10.57	2.43 ± 1.41
ICC	0.68	0.94
G_and_S_paracentral		
s. area (1e3 mm <sup>2</sup> )	1.02 ± 0.10	1.05 ± 0.11*
CoV	4.51 ± 4.24	2.13 ± 0.83
ICC	0.69	0.95
G_and_S_subcentral		
s. area (1e3 mm <sup>2</sup> )	1.10 ± 0.17	1.14 ± 0.15*
CoV	3.81 ± 3.32	2.17 ± 1.28
ICC	0.91	0.97
G_and_S_transv_frontopol		
s. area (1e3 mm <sup>2</sup> )	0.63 ± 0.13	0.68 ± 0.10*
CoV	9.49 ± 8.62	2.41 ± 1.07*
ICC	0.73	0.96
G_and_S_cingul-Ant		
s. area (1e3 mm <sup>2</sup> )	1.67 ± 0.33	1.83 ± 0.26*
CoV	7.79 ± 5.81	1.89 ± 0.94*
ICC	0.80	0.98
G_and_S_cingul-Mid-Ant		
s. area (1e3 mm <sup>2</sup> )	0.86 ± 0.13	0.93 ± 0.13*
CoV	6.92 ± 5.88	2.37 ± 1.05*
ICC	0.75	0.96

G_and_S_cingul-Mid-Post		
s. area (1e3 mm <sup>2</sup> )	1.00 ± 0.14	1.07 ± 0.12*
CoV	6.20 ± 7.16	1.73 ± 1.23
ICC	0.69	0.97
G_cingul-Post-dorsal		
s. area (1e3 mm <sup>2</sup> )	0.40 ± 0.06	0.43 ± 0.05*
CoV	7.54 ± 8.22	3.31 ± 2.43
ICC	0.68	0.88
G_cingul-Post-ventral		
s. area (1e3 mm <sup>2</sup> )	0.22 ± 0.03	0.22 ± 0.03
CoV	8.12 ± 6.41	2.83 ± 1.30*
ICC	0.71	0.96
G_cuneus		
s. area (1e3 mm <sup>2</sup> )	1.43 ± 0.23	1.57 ± 0.18*
CoV	9.29 ± 9.75	1.86 ± 1.05*
ICC	0.60	0.96
G_front_inf-Opercular		
s. area (1e3 mm <sup>2</sup> )	0.94 ± 0.12	0.97 ± 0.13*
CoV	4.97 ± 5.21	2.39 ± 1.40
ICC	0.75	0.95
G_front_inf-Orbital		
s. area (1e3 mm <sup>2</sup> )	0.27 ± 0.04	0.29 ± 0.04*
CoV	8.17 ± 8.00	5.69 ± 2.04
ICC	0.61	0.78
G_front_inf-Triangul		
s. area (1e3 mm <sup>2</sup> )	0.69 ± 0.12	0.71 ± 0.11*
CoV	7.54 ± 8.95	3.18 ± 1.12
ICC	0.67	0.95
G_front_middle		
s. area (1e3 mm <sup>2</sup> )	2.93 ± 0.55	3.14 ± 0.46*
CoV	8.03 ± 8.61	3.04 ± 1.95
ICC	0.76	0.94

G_front_sup			
s. area (1e3 mm <sup>2</sup> )	4.57 ± 0.70		5.00 ± 0.54*
CoV	7.07 ± 6.67		1.27 ± 0.93*
ICC	0.72		0.98
G_Ins_lg_and_S_cent_ins			
s. area (1e3 mm <sup>2</sup> )	0.43 ± 0.07		0.45 ± 0.06
CoV	8.61 ± 6.01		5.69 ± 3.50
ICC	0.62		0.73
G_insular_short			
s. area (1e3 mm <sup>2</sup> )	0.46 ± 0.09		0.50 ± 0.06*
CoV	12.26 ± 6.95		6.26 ± 4.85
ICC	0.66		0.67
G_occipital_middle			
s. area (1e3 mm <sup>2</sup> )	1.58 ± 0.29		1.67 ± 0.26*
CoV	5.97 ± 5.45		1.76 ± 0.96*
ICC	0.85		0.98
G_occipital_sup			
s. area (1e3 mm <sup>2</sup> )	1.03 ± 0.20		1.08 ± 0.18*
CoV	6.36 ± 5.42		2.10 ± 0.97
ICC	0.85		0.98
G_oc-temp_lat-fusifor			
s. area (1e3 mm <sup>2</sup> )	1.21 ± 0.20		1.31 ± 0.18*
CoV	7.50 ± 13.65		2.34 ± 0.96
ICC	0.59		0.97
G_oc-temp_med-Lingual			
s. area (1e3 mm <sup>2</sup> )	1.93 ± 0.41		2.13 ± 0.26*
CoV	9.74 ± 14.59		1.55 ± 0.81*
ICC	0.72		0.98
G_oc-temp_med-Parahip			
s. area (1e3 mm <sup>2</sup> )	0.83 ± 0.10		0.86 ± 0.10

CoV	6.33 ± 5.95	3.75 ± 2.31
ICC	0.65	0.84
G_orbital		
s. area (1e3 mm <sup>2</sup> )	1.68 ± 0.24	1.82 ± 0.19*
CoV	6.59 ± 5.43	1.72 ± 0.70*
ICC	0.74	0.97
G_pariet_inf-Angular		
s. area (1e3 mm <sup>2</sup> )	1.93 ± 0.26	2.09 ± 0.20*
CoV	6.87 ± 7.52	2.28 ± 0.85
ICC	0.65	0.93
G_pariet_inf-Supramar		
s. area (1e3 mm <sup>2</sup> )	1.89 ± 0.29	1.92 ± 0.26
CoV	4.49 ± 4.57	1.76 ± 1.13
ICC	0.87	0.98
G_parietal_sup		
s. area (1e3 mm <sup>2</sup> )	1.95 ± 0.31	2.03 ± 0.21*
CoV	8.89 ± 9.03	1.75 ± 1.49*
ICC	0.61	0.95
G_postcentral		
s. area (1e3 mm <sup>2</sup> )	1.43 ± 0.23	1.47 ± 0.21
CoV	5.32 ± 9.20	1.29 ± 0.90
ICC	0.75	0.99
G_precentral		
s. area (1e3 mm <sup>2</sup> )	1.74 ± 0.17	1.80 ± 0.14*
CoV	6.54 ± 7.13	1.49 ± 0.92*
ICC	0.44	0.95
G_precuneus		
s. area (1e3 mm <sup>2</sup> )	1.89 ± 0.32	1.95 ± 0.28*
CoV	5.18 ± 4.58	1.72 ± 1.04
ICC	0.87	0.98

G_rectus		
s. area (1e3 mm <sup>2</sup> )	0.62 ± 0.09	0.66 ± 0.06*
CoV	9.44 ± 5.91	3.54 ± 1.94*
ICC	0.64	0.81
G_subcallosal		
s. area (1e3 mm <sup>2</sup> )	0.29 ± 0.11	0.29 ± 0.10
CoV	36.31 ± 26.88	34.51 ± 16.58
ICC	0.39	0.37
G_temp_sup-G_T_transv		
s. area (1e3 mm <sup>2</sup> )	0.30 ± 0.05	0.31 ± 0.05
CoV	7.38 ± 6.61	3.28 ± 1.33
ICC	0.69	0.95
G_temp_sup-Lateral		
s. area (1e3 mm <sup>2</sup> )	1.30 ± 0.15	1.34 ± 0.13*
CoV	4.86 ± 4.49	1.47 ± 0.68*
ICC	0.76	0.97
G_temp_sup-Plan_polar		
s. area (1e3 mm <sup>2</sup> )	0.51 ± 0.07	0.57 ± 0.05*
CoV	10.55 ± 8.38	4.20 ± 3.13
ICC	0.45	0.69
G_temp_sup-Plan_tempo		
s. area (1e3 mm <sup>2</sup> )	0.65 ± 0.12	0.67 ± 0.11*
CoV	4.81 ± 3.19	2.52 ± 1.86
ICC	0.92	0.96
G_temporal_inf		
s. area (1e3 mm <sup>2</sup> )	1.69 ± 0.29	1.84 ± 0.21*
CoV	8.30 ± 8.23	1.60 ± 0.87*
ICC	0.67	0.97
G_temporal_middle		
s. area (1e3 mm <sup>2</sup> )	1.94 ± 0.30	2.06 ± 0.22*
CoV	5.61 ± 5.25	1.65 ± 1.12*
ICC	0.81	0.97

Lat_Fis-ant-Horizont		
s. area (1e3 mm <sup>2</sup> )	0.25 ± 0.05	0.26 ± 0.05*
CoV	8.41 ± 6.88	4.06 ± 1.25
ICC	0.82	0.94
Lat_Fis-ant-Vertical		
s. area (1e3 mm <sup>2</sup> )	0.20 ± 0.05	0.22 ± 0.05*
CoV	11.46 ± 12.78	4.18 ± 2.04
ICC	0.67	0.94
Lat_Fis-post		
s. area (1e3 mm <sup>2</sup> )	0.85 ± 0.07	0.85 ± 0.07
CoV	3.61 ± 3.37	1.66 ± 0.75
ICC	0.72	0.94
Pole_occipital		
s. area (1e3 mm <sup>2</sup> )	1.83 ± 0.28	1.90 ± 0.22*
CoV	5.96 ± 6.58	1.47 ± 1.05*
ICC	0.80	0.98
Pole_temporal		
s. area (1e3 mm <sup>2</sup> )	1.15 ± 0.13	1.20 ± 0.12*
CoV	4.92 ± 4.60	1.73 ± 0.91
ICC	0.76	0.96
S_calcarine		
s. area (1e3 mm <sup>2</sup> )	1.67 ± 0.35	1.86 ± 0.28*
CoV	10.53 ± 11.63	1.53 ± 0.64*
ICC	0.66	0.99
S_central		
s. area (1e3 mm <sup>2</sup> )	1.97 ± 0.21	2.08 ± 0.13*
CoV	8.49 ± 11.38	0.76 ± 0.45*
ICC	0.32	0.98
S_cingul-Marginalis		
s. area (1e3 mm <sup>2</sup> )	0.84 ± 0.13	0.90 ± 0.09*
CoV	8.09 ± 6.64	2.04 ± 0.82

ICC	0.70	0.95
S_circular_insula_ant		
s. area (1e3 mm <sup>2</sup> )	0.37 ± 0.07	0.39 ± 0.06*
CoV	6.83 ± 5.89	2.52 ± 1.79*
ICC	0.78	0.96
S_circular_insula_inf		
s. area (1e3 mm <sup>2</sup> )	0.84 ± 0.08	0.86 ± 0.08
CoV	4.32 ± 4.33	1.85 ± 1.06
ICC	0.71	0.94
S_circular_insula_sup		
s. area (1e3 mm <sup>2</sup> )	1.05 ± 0.15	1.08 ± 0.14*
CoV	3.59 ± 2.60	2.27 ± 1.30
ICC	0.90	0.96
S_collat_transv_ant		
s. area (1e3 mm <sup>2</sup> )	0.71 ± 0.10	0.77 ± 0.10*
CoV	7.93 ± 6.82	2.78 ± 1.47
ICC	0.65	0.93
S_collat_transv_post		
s. area (1e3 mm <sup>2</sup> )	0.32 ± 0.06	0.36 ± 0.04*
CoV	11.62 ± 15.78	3.99 ± 1.57
ICC	0.65	0.86
S_front_inf		
s. area (1e3 mm <sup>2</sup> )	1.43 ± 0.21	1.52 ± 0.16*
CoV	7.14 ± 7.85	1.85 ± 2.53*
ICC	0.71	0.92
S_front_middle		
s. area (1e3 mm <sup>2</sup> )	1.23 ± 0.29	1.37 ± 0.22*
CoV	11.60 ± 7.62	4.23 ± 3.10*
ICC	0.74	0.90
S_front_sup		

s. area (1e3 mm <sup>2</sup> )	1.85 ± 0.37	2.01 ± 0.32*
CoV	7.19 ± 6.53	1.93 ± 1.36
ICC	0.82	0.98
S_interm_prim-Jensen		
s. area (1e3 mm <sup>2</sup> )	0.29 ± 0.10	0.32 ± 0.09*
CoV	17.22 ± 19.32	4.50 ± 2.86
ICC	0.72	0.97
S_intrapariet_and_P_trans		
s. area (1e3 mm <sup>2</sup> )	2.17 ± 0.47	2.37 ± 0.31*
CoV	9.36 ± 8.27	1.56 ± 1.16*
ICC	0.80	0.98
S_oc_middle_and_Lunatus		
s. area (1e3 mm <sup>2</sup> )	0.68 ± 0.15	0.75 ± 0.10*
CoV	9.88 ± 12.43	2.51 ± 1.77*
ICC	0.78	0.94
S_oc_sup_and_transversal		
s. area (1e3 mm <sup>2</sup> )	0.90 ± 0.18	0.99 ± 0.18*
CoV	11.19 ± 9.23	2.02 ± 0.94*
ICC	0.67	0.98
S_occipital_ant		
s. area (1e3 mm <sup>2</sup> )	0.52 ± 0.09	0.57 ± 0.08
CoV	12.52 ± 15.18	3.16 ± 2.16
ICC	0.39	0.93
S_oc-temp_lat		
s. area (1e3 mm <sup>2</sup> )	0.69 ± 0.13	0.76 ± 0.11*
CoV	9.38 ± 8.51	3.24 ± 2.24
ICC	0.67	0.92
S_oc-temp_med_and_Lingual		
s. area (1e3 mm <sup>2</sup> )	1.38 ± 0.25	1.50 ± 0.14*
CoV	8.48 ± 10.91	2.00 ± 1.05*
ICC	0.72	0.94



S_orbital_lateral		
s. area (1e3 mm <sup>2</sup> )	0.28 ± 0.08	0.32 ± 0.05*
CoV	16.72 ± 16.30	6.87 ± 5.35
ICC	0.63	0.72
S_orbital_med-olfact		
s. area (1e3 mm <sup>2</sup> )	0.45 ± 0.12	0.52 ± 0.10*
CoV	16.10 ± 13.88	5.36 ± 2.77*
ICC	0.63	0.89
S_orbital-H_Shaped		
s. area (1e3 mm <sup>2</sup> )	0.97 ± 0.18	1.08 ± 0.11*
CoV	9.56 ± 10.30	2.43 ± 2.09*
ICC	0.69	0.92
S_parieto_occipital		
s. area (1e3 mm <sup>2</sup> )	1.53 ± 0.23	1.70 ± 0.22*
CoV	9.91 ± 10.37	1.54 ± 0.89
ICC	0.51	0.98
S_pericallosal		
s. area (1e3 mm <sup>2</sup> )	0.89 ± 0.17	0.98 ± 0.14*
CoV	7.35 ± 7.25	1.73 ± 1.02*
ICC	0.77	0.98
S_postcentral		
s. area (1e3 mm <sup>2</sup> )	1.76 ± 0.36	1.90 ± 0.30*
CoV	9.94 ± 10.58	1.52 ± 1.11*
ICC	0.70	0.99
S_precentral-inf-part		
s. area (1e3 mm <sup>2</sup> )	1.26 ± 0.19	1.35 ± 0.13*
CoV	7.79 ± 8.84	1.51 ± 0.39*
ICC	0.68	0.97
S_precentral-sup-part		
s. area (1e3 mm <sup>2</sup> )	0.89 ± 0.15	0.94 ± 0.13*
CoV	12.80 ± 15.00	3.01 ± 1.13
ICC	0.37	0.95

S_suborbital		
s. area (1e3 mm <sup>2</sup> )	0.31 ± 0.09	0.36 ± 0.07*
CoV	14.30 ± 9.91	6.29 ± 4.32*
ICC	0.69	0.89
S_subparietal		
s. area (1e3 mm <sup>2</sup> )	0.75 ± 0.20	0.82 ± 0.16*
CoV	11.11 ± 9.95	2.50 ± 1.10*
ICC	0.83	0.98
S_temporal_inf		
s. area (1e3 mm <sup>2</sup> )	1.02 ± 0.24	1.15 ± 0.14*
CoV	12.42 ± 10.94	3.12 ± 1.85
ICC	0.70	0.92
S_temporal_sup		
s. area (1e3 mm <sup>2</sup> )	4.02 ± 0.59	4.38 ± 0.47*
CoV	7.45 ± 7.66	1.27 ± 0.46*
ICC	0.65	0.98
S_temporal_transverse		
s. area (1e3 mm <sup>2</sup> )	0.25 ± 0.04	0.26 ± 0.05*
CoV	9.57 ± 7.27	4.47 ± 1.77*
ICC	0.67	0.94