

Supplementary Table 1. Full table for Cortical thickness between HC and HSR

	Group (HC vs. HSR) ^a		FoxO1_ rs3751436 ^a		FoxO1_ rs34733279 ^a		Group by FoxO1_ rs3751436 ^b		Group by FoxO1_ rs34733279 ^b		
	F	P	F	P	F	P	F	P	F	P	
L Frontomarginal gyrus	1.529	0.217	0.189	0.664	0.375	0.541	1.709	0.192	0.037	0.848	
L Inferior occipital gyrus	0.205	0.651	1.415	0.235	0.276	0.600	0.077	0.782	0.184	0.668	
L Paracentral lobule	0.125	0.724	0.843	0.360	0.001	0.970	0.121	0.728	0.008	0.931	
L Subcentral gyrus	0.020	0.888	6.657	0.010	0.361	0.549	2.345	0.127	4.631	0.032	
L Transverse frontopolar gyrus	7.375	0.007	0.163	0.687	2.618	0.107	0.005	0.946	1.562	0.213	
L Anterior cingulate gyrus	3.322	0.070	0.463	0.497	3.987	0.047	0.383	0.537	0.074	0.786	
L Anterior mid-cingulate gyrus	2.429	0.120	0.199	0.656	2.558	0.111	0.011	0.918	0.518	0.472	
L Posterior mid-cingulate gyrus	0.003	0.958	0.542	0.462	3.137	0.078	0.943	0.332	0.250	0.617	
L. posterior-dorsal part of the cingulate gyrus	0.047	0.829	0.010	0.919	0.668	0.414	1.984	0.160	11.153	0.001	
L. posterior-ventral part of the cingulate gyrus *	0.981	0.323	0.647	0.422	<0.001	0.999	1.185	0.277	16.871	5.50.E-05 *	
L. cuneus	3.030	0.083	2.309	0.130	1.780	0.183	1.395	0.239	1.895	0.170	
L. opercular part of the inferior frontal gyrus	0.181	0.671	2.148	0.144	0.033	0.855	1.156	0.283	0.321	0.572	
L. orbital part of the inferior frontal gyrus	0.250	0.618	3.214	0.074	0.705	0.402	0.825	0.365	1.481	0.225	
L. triangular part of the inferior frontal gyrus *	12.387	5.17.E-04	*HSR<HC	0.496	0.482	2.136	0.145	3.128	0.078	5.014	0.026
L. middle frontal gyrus	3.867	0.050	0.094	0.760	6.260	0.013	0.478	0.490	0.425	0.515	
L. superior frontal gyrus	6.949	0.009	2.038	0.155	2.365	0.125	0.011	0.918	0.353	0.553	
L. long insular gyrus and central sulcus of the insula	0.533	0.466	2.102	0.148	2.286	0.132	0.775	0.380	0.631	0.428	
L. short insular gyri	7.453	0.007	2.356	0.126	1.012	0.315	0.333	0.564	2.270	0.133	
L. middle occipital gyrus	0.136	0.712	6.587	0.011	1.903	0.169	2.585	0.109	1.208	0.273	
L. superior occipital gyrus	8.544	0.004	8.976	0.003	0.032	0.858	1.822	0.178	0.061	0.805	
L. lateral occipito-temporal gyrus	1.118	0.291	6.768	0.010	1.360	0.245	1.761	0.186	3.501	0.063	
L. lingual gyrus, ligual part of the medial occipito-temporal gyrus	5.363	0.021	0.005	0.941	2.252	0.135	1.756	0.186	0.388	0.534	
L. parahippocampal gyrus, parahippocampal part of the medial occipito-temporal gyrus	0.007	0.932	0.030	0.862	0.931	0.335	0.669	0.414	0.070	0.792	
L. orbital gyri	0.743	0.390	2.491	0.116	3.654	0.057	0.150	0.699	0.265	0.607	
L. angular gyrus	0.389	0.533	1.028	0.312	0.611	0.435	1.055	0.306	2.912	0.089	
L. supramarginal gyrus	0.003	0.954	3.776	0.053	0.826	0.364	2.287	0.132	3.233	0.073	

L. superior parietal lobule	0.079	0.779	3.382	0.067	1.768	0.185	0.010	0.919	2.892	0.090	
L. postcentral gyrus	0.178	0.673	1.628	0.203	0.070	0.791	0.154	0.695	0.684	0.409	
L. precentral gyrus	0.007	0.934	3.989	0.047	2.658	0.104	0.004	0.949	0.441	0.507	
L. precuneus	0.488	0.485	1.788	0.182	1.720	0.191	0.006	0.939	0.954	0.330	
L. straight gyrus	3.142	0.078	2.449	0.119	3.865	0.050	0.620	0.432	0.167	0.683	
L. subcallosal gyrus	0.877	0.350	0.611	0.435	0.031	0.861	0.299	0.585	0.023	0.880	
L. anterior transverse temporal gyrus	1.841	0.176	6.362	0.012	0.244	0.622	1.398	0.238	0.021	0.886	
L. lateral aspect of the superior temporal gyrus	0.055	0.815	1.327	0.250	0.007	0.934	0.053	0.818	0.173	0.678	
L. planum polare of the superior temporal gyrus	0.311	0.578	0.844	0.359	0.357	0.551	1.790	0.182	0.832	0.363	
L. planum temporale or temporal plane of the superior temporal gyrus	2.251	0.135	3.500	0.063	0.085	0.771	0.002	0.962	1.410	0.236	
L. inferior temporal gyrus	0.294	0.588	1.340	0.248	1.092	0.297	0.490	0.485	0.847	0.358	
L. middle temporal gyrus	2.341	0.127	3.550	0.061	0.248	0.619	0.963	0.327	2.529	0.113	
R Frontomarginal gyrus	2.018	0.157	0.618	0.433	0.194	0.660	1.312	0.253	0.003	0.954	
R Inferior occipital gyrus	0.236	0.627	3.053	0.082	0.143	0.706	0.109	0.742	0.149	0.700	
R Paracentral lobule	0.009	0.926	2.721	0.100	0.117	0.732	0.610	0.436	0.425	0.515	
R Subcentral gyrus	1.394	0.239	1.877	0.172	1.419	0.235	0.795	0.373	1.056	0.305	
R Transverse frontopolar gyrus *	13.406	3.09.E-04	*HSR<HC	1.366	0.244	1.591	0.208	0.426	0.515	0.459	0.499
R Anterior cingulate gyrus	4.753	0.030	0.025	0.873	1.328	0.250	0.001	0.972	0.046	0.830	
R Anterior mid-cingulate gyrus	2.784	0.097	2.341	0.127	0.287	0.592	1.197	0.275	0.362	0.548	
R Posterior mid-cingulate gyrus	0.047	0.828	0.726	0.395	0.229	0.633	0.696	0.405	0.143	0.706	
R. posterior-dorsal part of the cingulate gyrus	0.079	0.778	1.194	0.276	2.094	0.149	1.481	0.225	4.925	0.027	
R. posterior-ventral part of the cingulate gyrus	0.239	0.625	0.158	0.692	1.145	0.286	0.045	0.833	7.789	0.006	
R. cuneus	6.489	0.011	0.013	0.910	4.336	0.038	0.761	0.384	1.297	0.256	
R. opercular part of the inferior frontal gyrus	5.841	0.016	1.913	0.168	0.470	0.493	0.034	0.853	0.065	0.798	
R. orbital part of the inferior frontal gyrus	1.972	0.162	3.351	0.068	0.327	0.568	0.818	0.367	0.409	0.523	
R. triangular part of the inferior frontal gyrus *	10.529	0.001	1.788	0.182	0.095	0.758	0.002	0.964	0.014	0.905	
R. middle frontal gyrus	11.667	0.001	1.410	0.236	2.792	0.096	0.413	0.521	0.292	0.590	
R. superior frontal gyrus	7.850	0.005	2.306	0.130	0.603	0.438	0.015	0.902	0.430	0.513	
R. long insular gyrus and central sulcus of the insula	1.146	0.285	4.375	0.038	2.256	0.134	0.007	0.933	0.372	0.542	

R. short insular gyri	2.277	0.133	0.690	0.407	1.231	0.268	1.181	0.278	2.096	0.149
R. middle occipital gyrus	0.343	0.558	4.172	0.042	2.480	0.117	0.101	0.751	5.611	0.019
R. superior occipital gyrus	0.555	0.457	0.392	0.532	1.993	0.159	0.155	0.694	0.025	0.873
R. lateral occipito-temporal gyrus	1.293	0.257	2.662	0.104	0.758	0.385	0.172	0.679	4.679	0.032
R. lingual gyrus, ligual part of the medial occipito-temporal gyrus	7.037	0.009	0.327	0.568	3.794	0.053	0.033	0.855	0.141	0.708
R. parahippocampal gyrus, parahippocampal part of the medial occipito-temporal gyrus	0.403	0.526	4.750	0.030	2.970	0.086	0.016	0.900	0.274	0.601
R. orbital gyri	2.002	0.158	1.355	0.246	1.261	0.263	0.965	0.327	0.041	0.840
R. angular gyrus	0.072	0.789	1.639	0.202	0.161	0.688	0.392	0.532	3.621	0.058
R. supramarginal gyrus	0.010	0.920	3.840	0.051	2.906	0.090	1.024	0.313	0.916	0.340
R. superior parietal lobule	0.044	0.834	3.739	0.054	0.373	0.542	0.109	0.741	0.639	0.425
R. postcentral gyrus	0.009	0.924	1.276	0.260	0.072	0.789	0.059	0.808	0.793	0.374
R. precentral gyrus	0.182	0.670	4.987	0.026	3.109	0.079	0.217	0.642	2.703	0.101
R. precuneus	1.615	0.205	6.616	0.011	1.334	0.249	1.502	0.222	2.729	0.100
R. straight gyrus	0.586	0.445	0.125	0.724	0.003	0.954	0.495	0.482	0.374	0.542
R. subcallosal gyrus	1.532	0.217	3.077	0.081	0.677	0.412	0.524	0.470	1.178	0.279
R. anterior transverse temporal gyrus	0.451	0.503	1.472	0.226	0.491	0.484	0.015	0.904	0.991	0.321
R. lateral aspect of the superior temporal gyrus	0.287	0.592	3.161	0.077	0.156	0.693	0.168	0.682	0.014	0.905
R. planum polare of the superior temporal gyrus	1.868	0.173	3.239	0.073	1.170	0.280	2.097	0.149	3.375	0.067
R. planum temporale or temporal plane of the superior temporal gyrus	0.359	0.550	1.053	0.306	0.004	0.950	0.660	0.417	0.101	0.751
R. inferior temporal gyrus	0.218	0.641	6.023	0.015	2.236	0.136	1.367	0.243	3.729	0.055
R. middle temporal gyrus	0.900	0.344	0.953	0.330	0.199	0.656	0.730	0.394	2.560	0.111

Two-way analysis of covariance with the adjustment for age, sex, education level and total intracranial cavity volume as covariates

*Regions that remained significant after Bonferroni correction are marked with an asterisk.

^aBonferroni correction was applied in the effect of the diagnosis: $p < 0.05 / (76 \text{ cortical regions}) = 0.00066$

^bBonferroni correction was applied in the effect of the diagnosis-genotype interaction: $p < 0.05 / (76 \text{ cortical regions} \times 2 \text{ genetic polymorphisms}) = 0.00033$

HC, healthy control; HSR, high suicide risk; L, left; R, right