

Table S1: Tactile stimulation task. MNI coordinates of the brain regions active in subjects with BID and controls during the tactile stimulation of the hands and feet. Brain region (R = right hemisphere; L = left hemisphere), cluster size (k = number of voxels), cluster-wise FWER-corrected p-value and uncorrected p-value, voxel-wise (peak level) Z-score and Montreal Neurological Institute (MNI) coordinate are reported. Only voxels that survived the cluster-wise $p < 0.05$ FWER corrected threshold are reported. #Statistical threshold $p < 0.05$ whole-brain FWER-corrected voxelwise. The local maxima of significant clusters are reported in MNI coordinates. BA= Brodmann Areas; corr = corrected. **labelled as no region in the AAL template and identified using the Neuromorphometrics and the HarvardOxford atlas.

Brain region (BA)	Cluster			Z-score	Peak		
	K	P _{FWER-corr}	P _{uncorrected}		MNI coordinates		
					x	y	z
1. CONTROLS							
A. Right hand							
Cluster 1	9948	<0.001	<0.001				
L Postcentral gyrus (3)				Inf#	-48	-26	56
L Rolandic opercular gyrus				Inf#	-50	-20	18
L SMA				5.93#	-6	-8	50
Cluster 2	754	0.005	0.002				
R Cerebellum				6.97#	22	-52	-26
Cluster 3	2646	<0.001	<0.001				
R Rolandic opercular gyrus				6.23#	58	-18	20
R Supramarginal gyrus (43)				5.32#	62	-20	36
R Inf. parietal gyrus (2)				4.51#	50	-34	54
Cluster 4	482	0.028	0.009				
R Mid. temporal gyrus (37)				5.09#	54	-58	0
Cluster 5	801	0.004	0.001				
R Insula				4.52#	42	0	10
R Insula				4.48#	44	2	0
R Rolandic opercular gyrus				3.95	54	10	4
B. Left hand							
Cluster 1	7123	<0.001	<0.001				
R Postcentral gyrus (4)				Inf#	40	-24	54
R Rolandic opercular gyrus				Inf#	52	-18	18
R Insula				4.87#	42	-2	8
Cluster 2	826	0.004	0.001				
L Cerebellum				Inf#	-20	-52	-26
Cluster 3	1972	<0.001	<0.001				
L Supramarginal gyrus (3)				5.52#	-58	-22	40
L Postcentral gyrus				5.31#	-52	-18	16
L Supramarginal gyrus				4.97#	-54	-26	22
C. Right foot							
Cluster 1	962	0.002	0.001				
L Precuneus (5)				6.59#	-12	-44	64
L Paracentral lobule				6.01#	-6	-36	62

L Paracentral lobule (6)				4.51#	-8	-14	68
Cluster 2	1801	<0.001	<0.001				
L Sup. temporal gyrus				6.13#	-50	-28	20
L Heschl gyrus				5.53#	-34	-22	14
L Supramarginal gyrus (2)				5.34#	-60	-24	40
Cluster 3	741	0.006	0.002				
R Rolandic opercular gyrus				4.94#	48	-28	22
C. Left foot							
Cluster 1	1387	<0.001	<0.001				
R Postcentral gyrus (5)				Inf#	14	-42	68
Cluster 2	3538	<0.001	<0.001				
R Sup. temporal gyrus				7.74#	50	-30	20
R Rolandic opercular gyrus				7.07#	56	-20	18
R Postcentral gyrus (43)				4.96#	62	-16	36
Cluster 3	2021	<0.001	<0.001				
L Supramarginal gyrus				6.48#	-52	-26	20
L Supramarginal gyrus (43)				4.29#	-60	-20	36
L Rolandic opercular gyrus				4.17	-44	-4	16
2. BID							
A. Right hand							
Cluster 1	2671	<0.001	<0.001				
L Postcentral gyrus (3)				Inf#	-38	-24	52
Cluster 2	468	0.030	0.009				
R Cerebellum				5.88#	24	-52	-26
B. Left hand							
Cluster 1	2581	<0.001	<0.001				
R Postcentral gyrus (4)				Inf#	38	-26	56
R Precentral gyrus (6)				7.53#	38	-14	62
C. Right foot							
Cluster 1	1437	<0.001	<0.001				
L Paracentral lobule				Inf#	-6	-32	62
L Precuneus (4)				Inf#	-14	-40	66
Cluster 2	797	0.004	0.001				
L Sup. temporal gyrus				4.90#	-46	-30	18
L Parietal operculum** (41)				4.56#	-40	-38	22
L Parietal operculum**				3.45	-26	-22	20
C. Left foot							
Cluster 1	1017	<0.001	<0.001				
R Postcentral gyrus (4)				7.71#	12	-40	66
R Paracentral lobule (4)				7.09#	6	-30	62
Cluster 2	1096	0.001	<0.001				
R Sup. temporal gyrus				6.63#	48	-30	22
R Insula**				4.03	32	-24	16