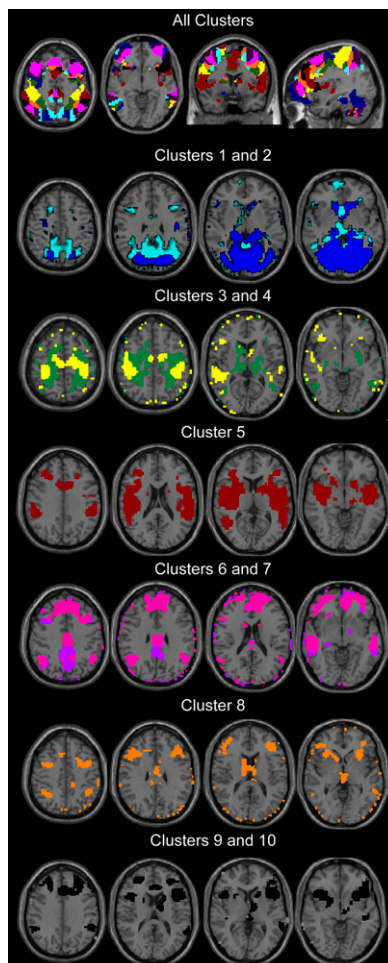# Supporting Information

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Fig. S1. Maximal correlation to each of 10 left IPS clusters. (*Upper*) Colored voxels are those showing correlation to initial right IPS seed region across 58 subjects with $T > 8$. Voxels are colored to correspond to the left IPS cluster with which the voxel showed highest correlation. Slice locations are $z = 50$, $z = -5$, $y = 7$, $x = 38$. (*Lower*) Each voxel in the brain was assigned to the left IPS cluster with which it exhibited highest correlation. Areas of highest correlation to each cluster are shown separately (two clusters are shown together in four cases where the clusters are correlated to similar brain regions.) The colors match the cluster locations shown above.
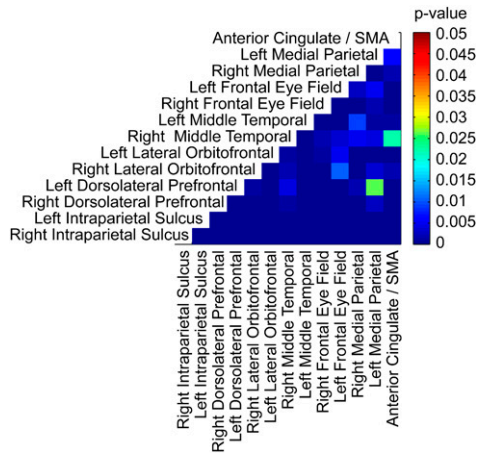
Fig. S2. Significance of topographic organization for 78 pairs of 13 regions. For each region pair and each subject, mean correlation between ROIs corresponding to the same clusters and mean correlation between ROIs corresponding to different clusters within the two regions were measured. Each box shows the *P* value corresponding to the one-tailed *t* test comparing the same cluster and different cluster measurements across 58 subjects.
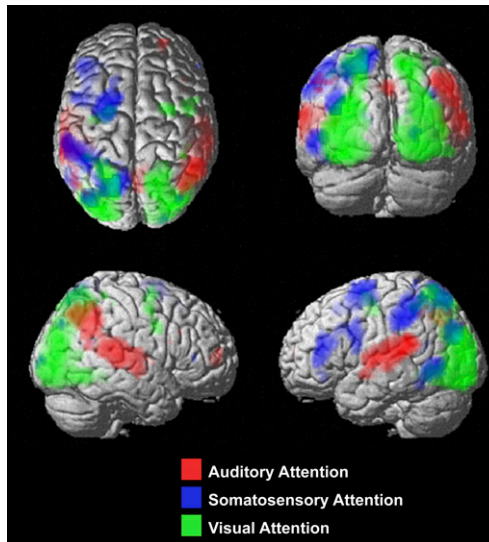
Fig. S3. Rendered images showing greatest brain activity with attention to different sensory modalities. Results were obtained from 16 subjects, showing brain regions with activity greater for auditory attention blocks (red), somatosensory attention blocks (blue), or visual attention blocks (green) than for the mean activity of all other blocks. Results are thresholded for display at *P* < 0.001, uncorrected. The somatosensory attention condition was strongly left lateralized.
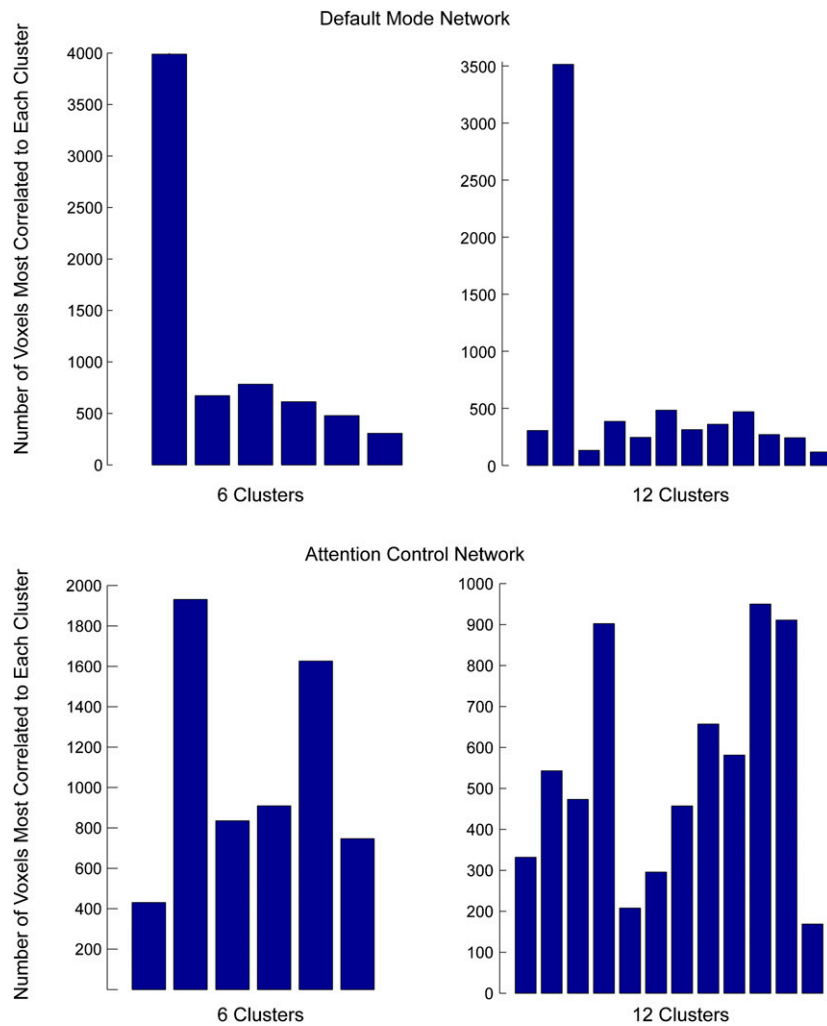
Fig. S4. Size of clusters for the default mode and attention control networks. The number of voxels most correlated to each cluster is shown for the default mode and attention control networks for the 6- and 12-cluster conditions. One dominant cluster is seen in each case for the default mode network, but not for the attention control network.

Table S1. MNI coordinates (*x*, *y*, and *z*) are listed for each of 13 brain regions of voxels that showed highest correlation to each left IPS cluster

Region	Cluster 1	Cluster 2	Cluster 3	Cluster 4	Cluster 5	Cluster 6	Cluster 7	Cluster 8	Cluster 9	Cluster 10
Right intraparietal sulcus	28	33	30	40	57	38	49	39	57	48
	−57	−60	−48	−38	−31	−63	−55	−49	−45	−49
	64	40	52	59	50	55	52	52	48	62
Left intraparietal sulcus	−25	−30	−28	−44	−57	−34	−46	−38	−59	−48
	−57	−64	−45	−38	−34	−64	−55	−51	−45	−48
	64	39	52	54	45	53	50	48	46	63
Right dorsolateral prefrontal	38	37	39	51	26	48	38	41	32	46
	−3	15	8	6	29	17	19	28	35	34
	55	32	31	38	30	39	45	25	41	39
Left dorsolateral prefrontal	−33	−36	−38	−50	−34	−46	−37	−42	−32	
	−5	11	3	4	31	17	18	23	36	
	49	32	32	36	36	40	48	34	43	
Right lateral orbitofrontal	26	35		33	47	23	33	33	34	46
	59	36		52	38	67	56	41	46	51
	−16	−14		−20	10	−4	−1	9	24	0
Left lateral orbitofrontal	−33	−51		−31	−39	−48	−36	−44	−35	−34
	60	53		50	32	49	50	43	45	41
	−13	−5		−14	10	−3	−1	9	19	4
Right middle temporal	47	55	53	61	61	60	64	60	67	67
	−57	−45	−53	−56	−55	−41	−29	−48	−49	−49
	−18	−18	−4	−7	0	−8	−10	−4	3	−1
Left middle temporal	−46	−57	−52	−59	−58	−62	−56	−65		
	−65	−55	−60	−66	−58	−43	−33	−58		
	−7	−10	−4	−7	2	−12	−10	−2		
Right frontal eye field	36	21	23	24	15	32	21	21	17	52
	−2	12	−3	−4	1	7	14	9	11	10
	65	59	63	75	75	68	68	68	73	53
Left frontal eye field	−35	−23	−24	−23	−16	−26	−15	−16	−14	
	−5	11	−1	−4	2	13	17	11	11	
	66	64	59	72	73	68	68	68	75	
Right medial parietal/ posterior cingulate	6	8	15	6	11	6	2	11	6	
	−50	−56	−41	−35	−35	−37	−30	−34	−28	
	66	54	51	68	54	42	48	47	54	
Left medial parietal/posterior cingulate	−8	−8	−3	−6	−11	−3	−5	−6	−7	
	−65	−58	−37	−42	−31	−37	−27	−31	−27	
	70	58	61	76	49	42	44	52	51	
Anterior cingulate/ supplementary motor area	−8	−15	−8	3	0	−14	3	−3	2	
	10	20	−2	−6	10	21	30	20	21	
	64	50	40	40	48	54	53	54	44	

Blank entries indicate no voxels in a region showed highest correlation to that cluster.