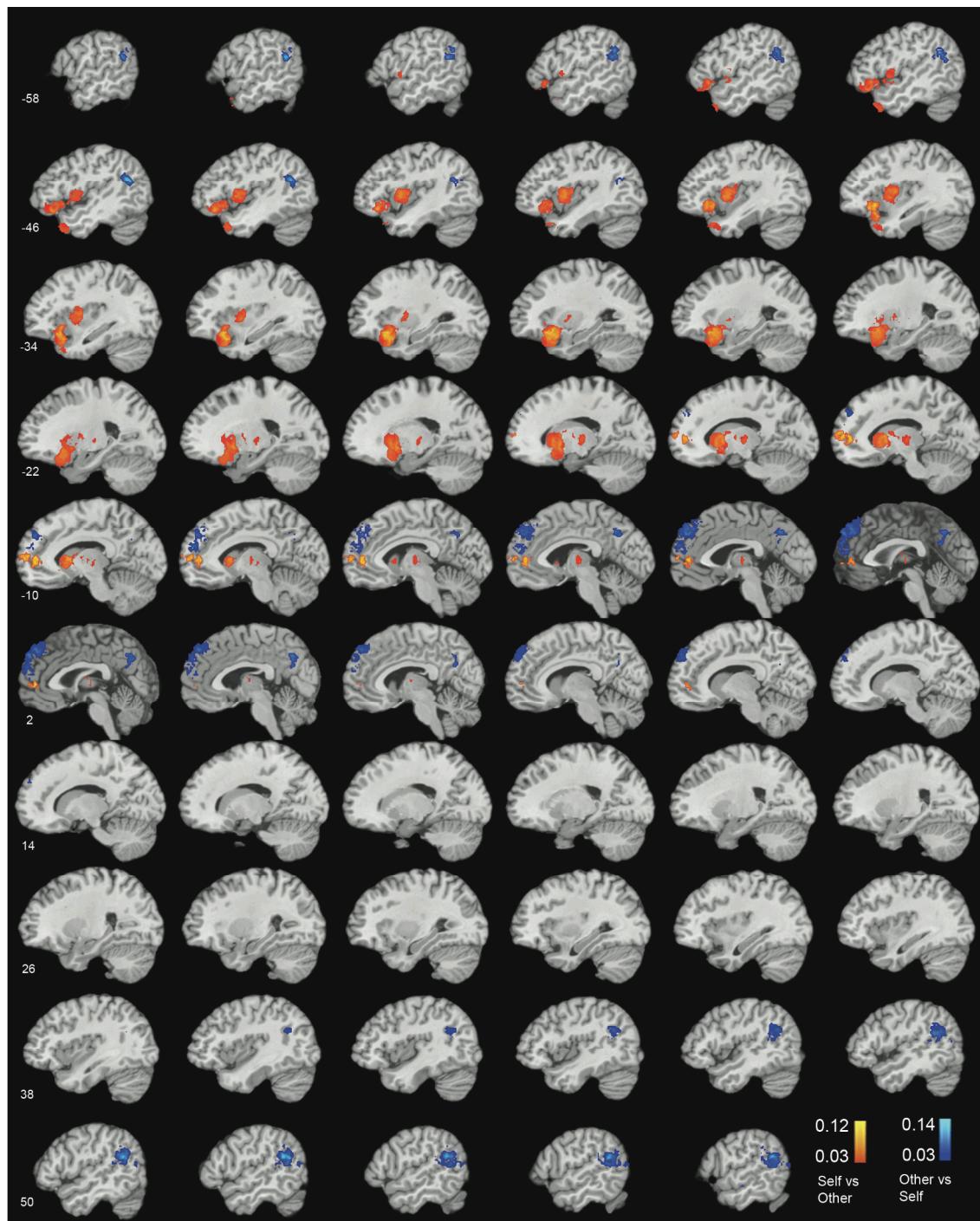


Supplementary Figure 1. Montage showing Self vs. Baseline (Green) and Other vs. Baseline (Magenta), with Overlap shown in Yellow. Color gradients for Self vs. Baseline and Other vs. Baseline show activation proportion differentials between conditions (FWE-corrected, $p < 0.05$). Coordinates shown are in MNI space.



Supplementary Figure 2. Montage showing Self vs. Other (Orange) and Other vs. Self (Blue) MKDA Results. Color gradients show activation proportion differentials between conditions (FWE-corrected, $p < 0.05$). Coordinates shown are in MNI space.

Supplementary Table 1. Summaries of studies included in the meta-analytic database

First Author	Year	Modality	N	Total			
				Contrasts	Self	Other	Baseline
Aichhorn	2006	fMRI	18	3	0	2	0
Baron-Cohen	1999	fMRI	12	1	0	1	0
Berthoz	2002	fMRI	12	4	0	0	0
Blackwood	2003	fMRI	12	4	1	1	0
Blakemore	2007	fMRI	11	1	1	0	0
Blouin	2004	PET	7	2	0	0	0
Bristow	2007	fMRI	12	6	0	0	0
Brunet	2000	PET	8	4	0	1	1
Cabeza	2004	fMRI	13	2	0	0	1
Calarge	2003	PET	13	2	0	1	1
Castelli	2000	PET	6	1	0	1	0
Cato	2004	fMRI	26	3	0	0	0
Chan	2004	fMRI	10	3	0	1	0
Ciaramidaro	2007	fMRI	12	3	0	3	0
Corden	2006	fMRI	24	1	0	0	0
Craik	1999	PET	8	4	2	2	0
D'Argembeau	2007	fMRI	17	2	0	1	0
Decety	2004	fMRI	12	4	0	2	0
den Ouden	2005	fMRI	11	4	2	0	1
Denkova	2006	fMRI	10	1	1	0	0
Devue	2007	fMRI	20	5	3	2	0
Farrer	2002	fMRI	12	4	2	2	0
Farrow	2001	fMRI	10	2	0	2	0
Fletcher	1995	PET	6	3	0	2	0
Fossati	2003	fMRI	10	1	1	0	0
Fossati	2004	fMRI	11	3	0	0	0
Gallagher	2000	fMRI	6	3	0	2	0
Gilbert	2007	fMRI	16	1	0	1	0
Gobbini	2007	fMRI	12	6	0	1	2
Greene	2004	fMRI	41	4	0	0	0
Grezes	2004	fMRI	6	2	1	0	0
Gu	2007	fMRI	12	4	0	0	0
Gusnard	2001	fMRI	24	3	2	0	0
Gutchess	2007	fMRI	36	2	1	1	0
Harris	2005	fMRI	12	1	0	0	0
Heatherton	2006	fMRI	30	4	2	2	0
Hynes	2006	fMRI	18	5	0	0	1
Iacoboni	2004	fMRI	13	1	0	1	0
Iacoboni	2005	fMRI	23	5	0	2	2
Jackson	2005	fMRI	15	1	0	0	0
Jackson	2006	fMRI	18	2	1	1	0
Johnson, M.K.	2006	fMRI	19*	10	4	4	0
Johnson, S.C.	2002	fMRI	11	1	1	0	0
Johnson, S.C.	2005	fMRI	17	3	2	0	0
Johnson, S.C.	2007	fMRI	110	1	1	0	0

Kelley	2002	fMRI	21	3	1	0	0
Kircher	2000	fMRI	6	4	2	0	1
Kircher	2001	fMRI	6	2	1	0	0
Kircher	2002	fMRI	6	2	2	0	0
Kjaer	2002	PET	7	2	2	0	0
Kobayashi	2006	fMRI	16	3	0	0	0
Lamm	2007	fMRI	17	3	1	1	0
Lawrence	2006	fMRI	12	1	1	0	0
Levine	2004	fMRI	5	2	1	0	0
Lieberman	2004	fMRI	22	2	0	0	0
Lou	2004	PET	13	6	2	2	2
Macrae	2004	fMRI	22	2	0	0	0
Martin	2003	fMRI	12	3	0	2	1
Mitchell	2002	fMRI	14	2	0	1	1
Mitchell	2004	fMRI	17	3	0	1	1
Mitchell (a)	2005	fMRI	14	4	0	0	1
Mitchell (b)	2005	fMRI	19	1	0	0	0
Mitchell (c)	2005	fMRI	18	2	0	0	1
Mitchell (a)	2006	fMRI	15	2	0	0	0
Mitchell (b)	2006	fMRI	15	3	0	0	1
Mitchell	2008	fMRI	20	1	0	1	0
Nakamura	2001	PET	9	2	1	1	0
Nunez	2005	fMRI	20	3	1	0	0
Ochsner (a)	2004	fMRI	24	8	1	2	1
Ochsner (b)	2004	fMRI	13	4	2	2	0
Ochsner	2005	fMRI	17*	6	3	3	0
Ortigue	2007	fMRI	36	4	0	1	0
Paulus	2003	fMRI	15	1	1	0	0
Pfeifer	2007	fMRI	12	4	2	2	0
Phan	2003	fMRI	8	3	0	0	0
Piefke	2003	fMRI	20	4	1	0	0
Piefke	2005	fMRI	20	1	1	0	0
Pietrini	2000	PET	15	3	0	0	0
Platek	2004	fMRI	5	2	1	1	0
Platek	2006	fMRI	12	5	2	1	0
Ramnani	2004	fMRI	12	3	1	0	0
Ruby	2003	PET	10	2	1	1	0
Ruby	2004	PET	10	5	1	1	0
Saxe	2003	fMRI	25*	2	0	2	0
Saxe	2005	fMRI	12	1	0	0	0
Saxe (a)	2006	fMRI	12	3	0	1	0
Saxe (b)	2006	fMRI	12	1	0	1	0
Schmitz	2004	fMRI	18	3	2	1	0
Schmitz	2006	fMRI	15	2	1	0	1
Schnider	2000	PET	8	2	0	0	0
Schulte-							
Ruther	2007	fMRI	26	1	1	0	0
Schultz	2004	fMRI	16	3	0	0	0
Schultz	2005	fMRI	12	1	0	0	0

Seger	2004	fMRI	12	6	2	2	2
Singer	2004	fMRI	16	4	0	0	0
Sommer	2007	fMRI	16	2	0	0	0
Spence	2001	fMRI	10	3	0	0	0
Sugiura	2000	PET	9	3	2	0	0
Sui	2007	fMRI	12	1	1	0	0
Takahashi (a)	2004	fMRI	15	1	0	0	0
Takahashi (b)	2004	fMRI	19	4	0	0	0
Todorov	2007	fMRI	11	3	0	1	2
Treyer	2003	PET	8	1	0	0	0
Vogeley	2001	fMRI	8	5	3	2	0
Vollm	2006	fMRI	15	3	0	0	0
Zhu	2007	fMRI	13	6	2	4	0
Zysset	2003	fMRI	18	1	0	0	0

Contrast totals are shown for each study, followed by the number of contrasts that were coded as Self, Other, and Baseline in this meta-analysis.

*Johnson et al. (2006) had N=19 in Experiment 1 and N=11 in Experiment 2; Ochsner et al. (2005) had N=17 in Experiment 1 and N=16 in Experiment 2; and Saxe & Kanwisher (2003) had N=25 in Experiment 1 and N=21 in Experiment 2.

Supplementary Table 2. Publications included in the meta-analysis

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Supplementary Table 3. MKDA results for contrasts of Self > Baseline, Other > Baseline, and the conjunction of both contrasts

Region of Activation	x	y	z	k	max	mean
Self>Baseline						
Medial Frontal Gyrus	-6	50	4	10887	0.1901	0.058006
Medial Frontal Gyrus	-6	50	4	(L)	0.1901	0.065304
Medial Frontal Gyrus (BA 10)	-6	56	10	(L)	0.174963	0.15993
Superior Frontal Gyrus (BA 9)	-6	54	32	(L)	0.142003	0.064662
Medial Frontal Gyrus (BA 10)	-4	62	20	(L)	0.139195	0.116295
Superior Frontal Gyrus (BA 8)	-10	48	40	(L)	0.123447	0.064207
Extra-Nuclear (BA 13)	-28	16	-12	(L)	0.114292	0.050785
Inferior Frontal Gyrus (BA 9)	-50	22	18	(L)	0.109287	0.053292
Inferior Frontal Gyrus (BA 47)	-32	16	-22	(L)	0.107883	0.086847
Inferior Frontal Gyrus (BA 47)	-34	20	-16	(L)	0.107486	0.06825
Sub-Gyral (BA 47)	-26	22	-14	(L)	0.102603	0.05251
Superior Frontal Gyrus (BA 8)	-12	46	48	(L)	0.095035	0.065875
Medial Frontal Gyrus (BA 32)	4	8	50	(L)	0.093417	0.049687
Anterior Cingulate (BA 24)	4	26	26	(L)	0.093112	0.053182
Inferior Frontal Gyrus (BA 9)	-44	22	18	(L)	0.092318	0.072638
Inferior Frontal Gyrus (BA 47)	-42	16	-10	(L)	0.092196	0.059195
Cingulate Gyrus (BA 32)	0	28	36	(L)	0.089084	0.069355
Lentiform Nucleus (Putamen)	-16	8	-8	(L)	0.084841	0.047243
Anterior Cingulate (BA 32)	0	34	26	(L)	0.083193	0.06139
Superior Frontal Gyrus (BA 6)	-10	28	56	(L)	0.082156	0.058219
Caudate (Caudate Body)	-10	12	4	(L)	0.080508	0.047587
Cingulate Gyrus (BA 24)	6	-14	42	(L)	0.078433	0.043451
Insula (BA 13)	-36	-4	8	(L)	0.073977	0.046236
Medial Frontal Gyrus (BA 6)	6	8	56	(L)	0.073	0.050368
Cingulate Gyrus (BA 32)	8	24	32	(L)	0.072939	0.053735
Medial Frontal Gyrus (BA 9)	4	40	26	(L)	0.071322	0.053749
Caudate (Caudate Head)	-8	16	-2	(L)	0.071108	0.057439
Superior Frontal Gyrus (BA 6)	-2	20	62	(L)	0.070284	0.046285
Cingulate Gyrus (BA 24)	-4	-2	38	(L)	0.068728	0.053512
Superior Temporal Gyrus (BA 38)	-50	0	-18	(L)	0.067354	0.047656
Lentiform Nucleus (Putamen)	-28	0	0	(L)	0.064638	0.047837
Superior Temporal Gyrus (BA 38)	-42	14	-34	(L)	0.062899	0.052272
Medial Frontal Gyrus (BA 8)	0	30	44	(L)	0.062746	0.050686
Medial Frontal Gyrus (BA 9)	16	28	30	(L)	0.061892	0.058726
Superior Frontal Gyrus (BA 10)	-24	50	24	(L)	0.06061	0.047225
Thalamus (Ventral Lateral Nucleus)	-12	-8	4	(L)	0.057863	0.040372
Thalamus	2	0	8	(L)	0.054567	0.037564
Inferior Frontal Gyrus (BA 44)	-56	16	6	(L)	0.054231	0.038281
Lentiform Nucleus (Putamen)	-24	-6	0	(L)	0.053499	0.042407
Thalamus (Medial Dorsal Nucleus)	-4	-16	2	(L)	0.051546	0.038484
Anterior Cingulate (BA 24)	2	24	-6	(L)	0.050417	0.047404
Cingulate Gyrus (BA 24)	8	-4	36	(L)	0.049043	0.048146
Superior Temporal Gyrus (BA 22)	-52	10	0	(L)	0.045412	0.039918

Superior Frontal Gyrus (BA 6)	14	16	58	(L)	0.045137	0.039787
Cingulate Gyrus (BA 31)	-2	-56	30	937	0.140233	0.072505
Cingulate Gyrus (BA 31)	-2	-56	30	(L)	0.140233	0.073199
Posterior Cingulate (BA 29)	-4	-56	12	(L)	0.067446	0.056083
Angular Gyrus (BA 39)	-44	-70	32	982	0.131413	0.066291
Angular Gyrus (BA 39)	-44	-70	32	(L)	0.131413	0.065408
Middle Temporal Gyrus (BA 39)	-50	-62	22	(L)	0.115513	0.097126
Supramarginal Gyrus (BA 40)	-54	-48	22	(L)	0.079501	0.067413
Inferior Frontal Gyrus (BA 47)	36	18	-24	268	0.102786	0.077427
Other > Baseline						
Supramarginal Gyrus (BA 40)	58	-50	22	1236	0.179357	0.07867
Supramarginal Gyrus (BA 40)	58	-50	22	(L)	0.179357	0.078995
Middle Temporal Gyrus (BA 39)	56	-68	12	(L)	0.053987	0.053863
Superior Temporal Gyrus (BA 39)	-56	-56	22	5215	0.176763	0.053145
Superior Temporal Gyrus (BA 39)	-56	-56	22	(L)	0.176763	0.062563
Middle Temporal Gyrus (BA 21)	-52	-4	-24	(L)	0.094333	0.043192
Middle Temporal Gyrus (BA 21)	-60	-8	-14	(L)	0.088412	0.050677
Superior Temporal Gyrus (BA 22)	-58	-12	-2	(L)	0.086825	0.055525
Superior Temporal Gyrus (BA 38)	-50	6	-18	(L)	0.0712	0.043823
Superior Temporal Gyrus (BA 38)	-44	8	-22	(L)	0.067415	0.040682
Superior Temporal Gyrus (BA 22)	-60	-34	6	(L)	0.062197	0.047654
Inferior Frontal Gyrus (BA 47)	-42	14	-12	(L)	0.059297	0.036829
Superior Temporal Gyrus (BA 22)	-56	-40	2	(L)	0.058718	0.043502
Inferior Parietal Lobule (BA 40)	-34	-52	50	(L)	0.05591	0.042383
Sub-Gyral (BA 40)	-26	-42	52	(L)	0.052675	0.038874
Clastrum	-30	8	-12	(L)	0.046388	0.035353
Superior Occipital Gyrus (BA 19)	-28	-74	28	(L)	0.04294	0.034091
Superior Temporal Gyrus (BA 41)	-52	-32	10	(L)	0.040773	0.040773
Medial Frontal Gyrus (BA 10)	-2	58	20	5519	0.17481	0.063995
Medial Frontal Gyrus (BA 10)	-2	58	20	(L)	0.17481	0.062117
Superior Frontal Gyrus (BA 9)	0	58	26	(L)	0.163671	0.124592
Superior Frontal Gyrus (BA 9)	-2	52	36	(L)	0.160161	0.124576
Medial Frontal Gyrus (BA 6)	4	32	38	(L)	0.05179	0.038374
Anterior Cingulate (BA 32)	0	40	20	(L)	0.043184	0.035713
Medial Frontal Gyrus (BA 9)	8	42	20	(L)	0.042055	0.033592
Cingulate Gyrus (BA 31)	-4	-56	30	1478	0.162603	0.069189
Cingulate Gyrus (BA 31)	-4	-56	30	(L)	0.162603	0.070814
Precuneus (BA 7)	-4	-50	52	(L)	0.083041	0.056888
Precuneus (BA 7)	2	-46	52	(L)	0.07123	0.054777
Precuneus (BA 7)	8	-50	60	(L)	0.044221	0.044221
Middle Temporal Gyrus (BA 21)	58	-16	-12	1	0.102878	0.102878
(Self > Baseline) & (Other > Baseline)						
Medial Frontal Gyrus (BA 10)	-6	56	10	4054	0.149576	0.068495
Medial Frontal Gyrus (BA 10)	-6	56	10	(L)	0.149576	0.067442
Medial Frontal Gyrus (BA 9)	-6	56	22	(L)	0.13788	0.121538
Superior Frontal Gyrus (BA 9)	-6	54	32	(L)	0.13541	0.106867

Superior Frontal Gyrus (BA 9)	-12	48	38	(L)	0.123379	0.098882
Medial Frontal Gyrus (BA 6)	-4	28	38	(L)	0.068469	0.051826
Anterior Cingulate (BA 32)	0	34	24	(L)	0.050161	0.040615
Cingulate Gyrus (BA 31)	-4	-56	30	640	0.149186	0.077302
Middle Temporal Gyrus (BA 39)	-50	-62	22	813	0.13303	0.07104
Middle Temporal Gyrus (BA 39)	-50	-62	22	(L)	0.13303	0.070497
Supramarginal Gyrus (BA 40)	-56	-52	20	(L)	0.10394	0.093737
Middle Temporal Gyrus (BA 21)	-60	-6	-20	551	0.072278	0.048002
Middle Temporal Gyrus (BA 21)	-60	-6	-20	(L)	0.072278	0.049252
Middle Temporal Gyrus (BA 21)	-52	-2	-24	(L)	0.068295	0.058753
Inferior Frontal Gyrus (BA 47)	-42	16	-14	(L)	0.06381	0.040849
Clastrum	-30	8	-12	(L)	0.057924	0.044959
Posterior Cingulate (BA 23)	0	-56	12	3	0.053463	0.053463
Inferior Frontal Gyrus (BA 47)	-48	18	-10	4	0.050713	0.047169
Superior Temporal Gyrus (BA 38)	-46	14	-26	3	0.035918	0.035918

All regions are significant at FWE, p<0.05. Coordinates are in MNI space. 'L' reflects local maxima.

Supplementary Table 4. MKDA results for contrasts of Self > Other and Other > Self.

Region of Activation	x	y	z	k	max	mean
Self > Other						
Medial Frontal Gyrus	-10	50	6	303	0.118686	0.080394
Medial Frontal Gyrus	-10	50	6	(L)	0.118686	0.080555
Anterior Cingulate (BA 32)	-2	48	4	(L)	0.114078	0.093803
Medial Frontal Gyrus (BA 10)	-10	62	6	(L)	0.112766	0.078437
Insula (BA 13)	-36	20	-8	3455	0.115268	0.047111
Insula (BA 13)	-36	20	-8	(L)	0.115268	0.043071
Inferior Frontal Gyrus (BA 47)	-32	16	-22	(L)	0.107944	0.054159
Inferior Frontal Gyrus (BA 47)	-30	20	-14	(L)	0.106113	0.08976
Caudate	-12	8	8	(L)	0.097415	0.05015
Inferior Frontal Gyrus (BA 47)	-42	30	-12	(L)	0.085055	0.069607
Insula (BA 13)	-36	-4	8	(L)	0.074038	0.046793
Inferior Frontal Gyrus (BA 47)	-48	24	-6	(L)	0.073183	0.061407
Lentiform Nucleus (Putamen)	-28	0	0	(L)	0.064669	0.041512
Thalamus (Ventral Lateral Nucleus)	-12	-8	4	(L)	0.057894	0.036804
Thalamus (Medial Dorsal Nucleus)	-4	-16	2	(L)	0.051576	0.034689
Thalamus	-10	-14	4	(L)	0.051576	0.042724
Lentiform Nucleus (Putamen)	-22	-6	8	(L)	0.044191	0.035592
Superior Temporal Gyrus (BA 38)	-60	10	-20	(L)	0.041322	0.03169
Thalamus	8	-8	4	(L)	0.039186	0.031547
Other > Self						
Middle Temporal Gyrus (BA 39)	-46	-64	20	285	0.139897	0.07744
Middle Temporal Gyrus (BA 39)	-46	-64	20	(L)	0.139897	0.075677
Superior Temporal Gyrus (BA 39)	-56	-56	22	(L)	0.127232	0.089258
Superior Temporal Gyrus (BA 39)	52	-50	22	832	0.139286	0.061613
Superior Temporal Gyrus (BA 39)	52	-50	22	(L)	0.139286	0.062193
Middle Temporal Gyrus (BA 39)	56	-68	12	(L)	0.05417	0.048819
Cuneus (BA 7)	4	-62	36	160	0.109622	0.071824
Superior Frontal Gyrus (BA 9)	0	56	34	1011	0.10712	0.057389
Superior Frontal Gyrus (BA 9)	0	56	34	(L)	0.10712	0.055193
Superior Frontal Gyrus (BA 9)	-2	48	34	(L)	0.106632	0.06663
Medial Frontal Gyrus (BA 8)	0	48	42	(L)	0.101077	0.07392
Medial Frontal Gyrus (BA 10)	-8	56	20	(L)	0.088595	0.05454
Superior Frontal Gyrus (BA 9)	0	58	26	(L)	0.087924	0.067081
Superior Frontal Gyrus (BA 9)	10	56	38	(L)	0.074007	0.058198
Medial Frontal Gyrus (BA 8)	-2	38	46	(L)	0.06943	0.056572
Middle Temporal Gyrus (BA 21)	58	-16	-12	1	0.103214	0.103214

All regions are significant at FWE, p<0.05. Coordinates are in MNI space. 'L' reflects local maxima.