

Sleep architecture

All participants (combined dataset, $N = 31$) had more than a minimum of 50 minutes of sleep during the EEG-fMRI recording session, and on average, there was an average of 67 minutes ($SD = 28$) of sleep in total on the MSL night, and an average of 74 minutes ($SD = 29$) on the CTRL night. Two of the participants reached REM sleep. NREM sleep data from 31 participants were included in the MSL night analyses and NREM data from 12 participants were included in the CTRL night analyses. The average duration of NREM artifact free sleep included in the analyses was 63 minutes ($SD = 32$ minutes) on the MSL night and 54 minutes ($SD = 74$) on the CTRL night. Sleep architecture for the MSL night and CTRL night sample is summarized in **Supplementary Table 1**.

Supplementary Table 1. Sleep architecture during post-MSL (combined dataset, $N = 31$) and post-CTRL (dataset 1, $N = 12$) EEG-fMRI recording sessions.		<i>N</i>	<i>M</i>	<i>SD</i>
Post MSL	Wake (min)	31	40.63	29.76
	NREM1 (min)	31	8.20	6.71
	NREM2 (min)	31	40.61	18.23
	SWS (min)	31	25.86	21.13
	NREM total (min)	31	63.22	31.90
	Total sleep (min)	31	67.12	27.90
Post CTRL	Wake (min)	12	48.36	30.14
	NREM1 (min)	12	10.25	8.23
	NREM2 (min)	12	45.33	21.39
	SWS (min)	12	18.52	18.34
	NREM total (min)	12	63.86	74.11
	Total sleep (min)	12	74.11	29.36
NREM: non-rapid eye movement sleep; SWS: slow wave sleep; REM: rapid eye movement sleep.				

EEG characteristics of coupled SW-SP and uncoupled spindles on MSL night

On average, 366 coupled spindles and 893 uncoupled spindles per participant were identified (Combined dataset, $N = 31$). Paired samples t-test revealed significant differences between coupled SW-SP and uncoupled spindles in terms of the number ($t(30) = -4.97$, $p < 0.001$), duration ($t(30) = -4.42$, $p < 0.001$), and density ($t(30) = -5.48$, $p < 0.001$), showing more uncoupled spindles than SW-SP complexes and suggesting distinct characteristics for each event type. Spindle amplitude did not show a significant difference between coupled SW-SP and uncoupled spindles ($t(30) = 1.08$, $p = 0.290$). Detailed characteristics of the coupled SW-SP and uncoupled spindles for each individual channel are summarized in **Supplementary Table 2**.

Supplementary Table 2. Sleep spindle parameters for coupled SW-SP and uncoupled spindles during NREM sleep on the MSL night (Combined dataset N = 31)..

Site	Measure	Coupled SW-SP		Uncoupled SP		T-value	P-value
		M	SEM	M	SEM		
All	Number	366.84	56.90	893.42	95.51	-4.97	< 0.001
	Amplitude (uV)	28.99	3.17	28.05	3.09	1.08	0.290
	Duration (s)	0.80	0.03	0.88	0.03	-4.42	< 0.001
	Density	4.13	0.59	9.96	0.81	-5.48	< 0.001
Fz	Number	78.84	13.18	175.26	20.38	4.23	<0.001
	Amplitude (uV)	30.87	3.72	28.77	3.40	-2.12	0.043
	Duration (s)	0.87	0.64	0.85	0.02	-0.22	0.826
	Density	1.28	0.18	2.70	0.22	4.57	<0.001
Cz	Number	81.97	12.05	183.84	19.02	4.79	<0.001
	Amplitude (uV)	29.70	3.52	28.67	3.36	-1.01	0.321
	Duration (s)	0.79	0.03	0.88	0.03	2.36	0.025
	Density	1.32	0.17	2.82	0.17	5.14	<0.001
Pz	Number	66.9	11.90	228.00	26.10	5.46	<0.001
	Amplitude (uV)	31.19	3.40	31.10	3.38	-0.14	0.887
	Duration (s)	0.81	0.03	0.95	0.04	4.35	<0.001
	Density	1.12	0.17	3.46	0.28	5.87	<0.001
C3	Number	73.52	11.86	163.00	17.07	4.64	<0.001
	Amplitude (uV)	26.75	2.62	25.95	2.71	-0.81	0.419
	Duration (s)	0.77	0.03	0.91	0.03	3.30	0.002
	Density	1.22	0.16	2.56	0.18	4.92	<0.001
C4	Number	65.61	10.12	143.32	16.21	4.39	<0.001
	Amplitude (uV)	26.79	3.10	25.35	2.83	-1.15	0.257
	Duration (s)	0.77	0.03	0.80	0.01	1.14	0.261
	Density	1.07	0.14	2.20	0.15	4.90	<0.001

M = mean; SEM = standard error of the mean. *P*-values for paired samples t-test between spindle parameters.

EEG characteristics of coupled SW-SP and uncoupled spindles on CTRL night

On average, 614 coupled spindles and 617 uncoupled spindles per participant were identified and were included in the analyses (Dataset 1, N = 12). No differences between coupled SW-SP and uncoupled spindles in terms of the number ($t(11) = 0.02$, $p = 0.982$), duration ($t(11) = -1.48$, $p = 0.167$) amplitude ($t(11) = 0.47$, $p = 0.647$), or density ($t(11) = 0.56$, $p = 0.585$), were observed. Thus, suggesting an even distribution for each event type. Detailed characteristics of the coupled SW-SP and uncoupled spindles for each individual channel are summarized and summarized in **Supplementary Table 3**.

Supplementary Table 3. Sleep spindle parameters for coupled SW-SP and uncoupled spindles during NREM sleep during CTRL night (dataset 1, N = 12).

Site	Measure	Coupled SW-SP		Uncoupled SP		T-value	P-value
		M	SEM	M	SEM		
All	Number	614.08	133.20	617.42	102.45	0.02	0.982
	Amplitude (uV)	43.78	3.20	43.16	3.00	0.47	0.647
	Duration (s)	0.88	0.41	0.93	0.26	-1.48	0.167
	Density	7.55	1.56	6.63	0.58	0.56	0.585
Fz	Number	113.42	26.48	97.42	20.76	-0.61	0.549
	Amplitude (uV)	45.71	2.70	43.66	2.59	-1.85	0.093
	Duration (s)	0.94	0.08	0.95	0.54	0.11	0.913
	Density	1.76	0.30	1.60	0.25	-0.40	0.698
Cz	Number	130.33	29.67	128.67	25.17	-0.05	0.962
	Amplitude (uV)	45.47	3.43	44.46	3.49	-0.81	0.431
	Duration (s)	0.85	0.04	0.91	0.03	1.32	0.212
	Density	1.97	0.29	1.97	0.23	-0.01	0.998
Pz	Number	144.92	32.46	147.00	24.99	0.05	0.954
	Amplitude (uV)	49.84	3.71	50.26	3.33	0.22	0.823
	Duration (s)	0.90	0.04	1.02	0.05	3.20	0.008
	Density	2.15	0.34	2.26	0.19	0.21	0.838
C3	Number	112.75	22.68	126.58	22.05	0.47	0.642
	Amplitude (uV)	38.03	2.90	36.92	2.39	-0.95	0.361
	Duration (s)	0.84	0.03	0.87	0.03	0.79	0.443
	Density	1.75	0.25	2.04	0.23	0.63	0.538
C4	Number	112.67	24.53	117.75	21.11	0.17	0.863
	Amplitude (uV)	40.81	3.36	40.54	3.30	-0.16	0.872
	Duration (s)	0.87	0.08	0.92	0.04	0.56	0.585
	Density	1.66	0.22	1.86	0.21	0.49	0.629

M = mean; SEM = standard error of the mean. *P*-values for paired samples t-test between spindle parameters.

As with the MSL night, we investigated the phase relationship between spindles and slow waves, the slow wave phase at the spindle maximum for each SW-SP event was extracted and mean phase angle per individual was computed. Coupling of spindle events within the slow wave cycle was maximal, shortly before the down-to-up state peak in 11 out of 12 participants (0° ; $p < 0.05$, V-test). Further individual-level analyses revealed a non-uniform distribution ($p < 0.001$, Rayleigh test) of the preferred phases of SW-SP in 11 out of 12 participants, suggesting that spindles were coupled to slow waves preferentially adjacent to, or immediately following the positive slow wave peak, during the down-to-up state.

Supplementary Table 4. Brain activation differences: Coupled SW-SP complexes > uncoupled SWs (combined dataset, N = 31)

Hemisphere	Region	x	y	z	Size	Z-score	p (unc.)
Cluster 1					5700		Cluster-level (pFWE) <0.001
Left	Superior Frontal Gyrus (medial)	-9	66	9	265	4.71	<0.001
Left	Superior Frontal Gyrus	-21	54	12	273	4.39	<0.001
Left	Inferior Frontal Gyrus (Triangular)	-54	30	18	253	4.70	<0.001
Left	Middle Frontal Gyrus	-39	57	9	179	3.86	<0.001
Left	Inferior Frontal Gyrus (Opercular)	-51	12	6	148	3.76	<0.001
Right	Inferior Frontal Gyrus (Triangular)	54	24	21	232	4.54	<0.001
Right	Inferior Frontal Gyrus (Opercular)	48	15	15	173	3.95	<0.001
Right	Middle Frontal Gyrus	39	60	3	247	4.46	<0.001
Right	Superior Frontal Gyrus	21	39	36	345	4.26	<0.001
Left	Lingual Gyrus	-36	-87	-18	114	4.42	<0.001
Left	Fusiform Gyrus	-42	-66	-21	61	4.39	<0.001
Left	Cerebellum (Crus I)	-21	-87	-21	47	4.16	<0.001
Right	Superior Frontal Gyrus (Medial)	6	48	27	111	3.70	<0.001
Right	Paracentral Lobule	3	-39	69	37	4.16	<0.001
Left	Precuneus	0	-54	63	360	3.95	<0.001
Left	Precentral Gyrus	-54	-3	42	56	3.10	<0.001
Right	Lingual Gyrus	9	-36	-3	161	4.02	<0.001
Right	Inferior Occipital Gyrus	30	-90	-15	39	4.02	<0.001
Right	Fusiform Gyrus	21	-57	-12	42	2.98	0.0014
Left	Inferior Occipital Gyrus	-45	-81	-12	58	3.95	<0.001
Left	Middle Occipital Gyrus	-24	-96	0	117	3.25	<0.001
Right	Precuneus	15	-54	27	254	3.49	<0.001
Right	Precentral Gyrus	39	-21	66	164	3.71	<0.001
Right	Primary Motor Cortex (hand area)	30	-15	51	151	3.11	<0.001
Left	Calcarine Fissure	-12	-51	3	78	3.11	<0.001
Left	Hippocampus	-15	-30	-9	13	3.88	<0.001
Right	Inferior Temporal Gyrus	48	-57	-24	26	3.88	<0.001
Right	Cerebellum (Crus I)	39	-78	-21	50	3.76	<0.001
Right	Middle Cingulate Gyrus	6	33	33	37	3.83	<0.001
Left	Inferior Frontal Gyrus (Orbital)	-45	21	-12	28	2.79	0.0026
Right	Supplementary Motor Area	9	15	51	135	3.74	<0.001
Left	Supplementary Motor Area	-6	6	57	223	3.27	<0.001
Right	Middle Temporal Gyrus	57	-54	12	136	3.65	<0.001
Right	Superior Temporal Gyrus	54	-45	18	48	3.25	<0.001
Right	Superior Parietal Lobule	27	-72	54	86	3.64	<0.001
Right	Superior Occipital Gyrus	27	-69	39	39	3.25	<0.001
Left	Middle Temporal Gyrus	-51	-48	3	188	3.62	<0.001
Left	Superior Temporal Gyrus	-63	-51	21	26	3.37	<0.001
Left	Posterior Cingulate	-3	-33	30	47	2.98	<0.001
Cluster 2					104		Cluster-level (pFWE) = 0.1212
Right	Thalamus, Anteroventral Nucleus	6	-3	3	4	4.24	<0.001
Left	Ventral Striatum	-6	12	-9	16	4.03	<0.001
Right	Putamen	31	34	21	16	3.22	<0.001
Cluster 3					75		Cluster-level (pFWE) = 0.3102

Left	Medial Orbitofrontal Cortex	-3	60	-9	53	3.71	0.0001
Cluster 4					144	Cluster-level (pFWE) 0.0344	
Left	Inferior Parietal Lobule	-42	-48	45	91	3.39	0.0003
Cluster 5					66	Cluster-level (pFWE) = 0.4109	
Right	Supramarginal Gyrus	54	-21	27	12	3.34	0.0004
Right	Postcentral Gyrus	48	-24	54	52	3.10	0.0009
Cluster 6					48	Cluster-level (pFWE) = 0.6781	
Right	Middle Temporal Gyrus	51	-12	-12	16	3.04	0.0012
Cluster 7					43	Cluster-level (pFWE) = 0.7591	
Right	Postcentral Gyrus	33	-36	48	39	2.90	0.0019

Supplementary Table 5. Brain activation differences: uncoupled spindles > coupled SW-SP complexes (combined dataset, N = 31).

Hemisphere	Region	x	y	z	Size	Z-score	p (unc.)
Cluster 1					1266		Cluster-level (pFWE) <0.001
Right	Superior Temporal Gyrus	45	-27	9	257	5.48	<0.001
Right	Rolandic Operculum	45	-12	21	96	3.51	<0.001
Right	Postcentral Gyrus	27	-27	57	73	4.30	<0.001
Right	Precentral Gyrus	45	-15	48	185	3.90	<0.001
Right	Superior Temporal Pole	36	12	-24	84	4.05	<0.001
Right	Inferior Frontal Gyrus (Orbital)	33	27	-6	49	4.13	<0.001
Right	Orbitofrontal Cortex (Posterior)	48	18	-15	42	3.94	<0.001
Right	Middle Frontal Gyrus	39	15	48	32	3.42	<0.001
Cluster 2					560		Cluster-level (pFWE) <0.001
Right	Calcarine	18	-99	-6	108	3.90	<0.001
Left	Calcarine	-12	-93	-6	142	4.34	<0.001
Right	Lingual Gyrus	12	-90	-6	66	4.80	<0.001
Left	Middle Occipital Gyrus	-15	-102	3	48	3.51	<0.001
Cluster 3					1105		Cluster-level (pFWE) <0.001
Left	Rolandic Operculum	-39	-27	18	92	5.09	<0.001
Left	Insular Cortex	-27	24	-6	210	4.42	<0.001
Left	Superior Temporal Gyrus	-45	-3	-9	368	4.97	<0.001
Left	Putamen	-18	6	-6	59	4.23	<0.001
Left	Superior Temporal Pole	-39	12	-24	118	4.23	<0.001
Left	Caudate Nucleus	-12	9	9	12	3.11	<0.001
Cluster 4					420		Cluster-level (pFWE) <0.001
Left	Postcentral Gyrus	-39	-15	48	250	4.68	<0.001
Left	Precentral Gyrus	-39	-9	60	133	3.67	<0.001
Cluster 5					63		Cluster-level (pFWE) 0.4684
Left	Precuneus	-6	-69	39	41	4.65	<0.001
Right	Precuneus	9	-66	33	22	3.17	<0.001
Cluster 6					610		Cluster-level (pFWE) <0.001
Left	Middle Cingulate Cortex	-9	-21	39	136	4.13	<0.001
Right	Posterior Cingulate Cortex	6	-39	30	26	3.84	<0.001
Right	Paracentral Lobule	9	-33	51	28	3.99	<0.001
Cluster 7					42		Cluster-level (pFWE) = 0.7863
Right	Inferior Parietal Lobule	39	-51	42	23	4.18	<0.001
Right	Angular Gyrus	36	-63	51	16	2.86	0.0021
Cluster 8					162		Cluster-level (pFWE) = 0.0229
Left	Supplementary Motor Area	0	24	45	55	3.72	<0.001
Left	Superior Frontal Gyrus	-12	27	51	21	3.54	<0.001
Left	Superior Frontal Gyrus (Medial)	3	33	51	37	3.54	<0.001
Right	Supplementary Motor Area	6	18	60	19	3.18	<0.001
Cluster 9					147		Cluster-level

							(pFWE) = 0.0354
Left	Medial Frontal Gyrus (Orbital)	-9	33	-12	80	3.71	<0.001
Right	Medial Frontal Gyrus (Orbital)	6	45	-9	25	3.21	<0.001
Cluster 10					66	Cluster-level (pFWE) = 0.1125	
Left	Inferior Parietal Lobule	-33	-57	42	52	3.51	<0.001

Supplementary Table 6. Brain activations time-locked to coupled SW-SP complexes during sleep after the MSL > CTRL task (dataset 1, N = 12).

Hemisphere	Region	x	y	z	Size	Z-score	p (unc.)
Cluster 1					1984	Cluster level (pFWE) <0.001	
Left	Cerebellum (Lobules IV-V)	-6	-63	-6	73	4.60	<0.001
Left	Lingual Gyrus	-24	-48	-6	215	3.55	<0.001
Right	Cerebellum (Lobules IV-V)	12	-57	-9	53	4.04	<0.001
Right	Lingual Gyrus	24	-54	-6	265	3.97	<0.001
Right	Middle Temporal Gyrus	42	-69	9	48	3.93	<0.001
Left	Calcarine Fissure	-24	-57	6	130	3.81	<0.001
Left	Precuneus	-15	-51	9	21	3.76	<0.001
Left	Cuneus	3	-87	30	162	3.74	<0.001
Right	Superior Occipital Gyrus	27	-84	33	86	3.63	<0.001
Right	Calcarine Fissure	21	-69	12	196	3.67	<0.001
Right	Supramarginal Gyrus	51	-42	39	46	3.61	<0.001
Cluster 2					394	Cluster level (pFWE) <0.001	
Right	Hippocampus	21	-15	-12	12	4.32	<0.001
Right	Thalamus (Ventral Anterior)	15	-6	3	15	3.73	<0.001
Left	Thalamus (Ventral Lateral)	-18	-12	3	19	3.43	<0.001
Cluster 3					191	Cluster level (pFWE) = 0.0097	
Right	Middle Frontal Gyrus	42	57	9	84	4.21	<0.001
Right	Superior Frontal Gyrus	24	42	21	60	3.68	<0.001
Right	Anterior Cingulate Cortex	15	48	9	14	4.04	<0.001
Cluster 4					55	Cluster level (pFWE) = 0.5895	
Left	Superior Frontal Gyrus (Medial)	-9	30	39	31	4.02	<0.001
Right	Middle Cingulate Gyrus	15	24	33	17	3.44	<0.001
Cluster 5					89	Cluster level (pFWE) = 0.2115	
Right	Paracentral Lobule	3	-39	69	32	3.96	<0.001
Left	Precuneus	-3	-39	60	13	3.15	<0.001
Right	Precuneus	15	-45	45	17	2.75	0.0029
Cluster 6					59	Cluster level (pFWE) = 0.5291	
Right	Olfactory Cortex	6	18	-6	10	3.93	<0.001
Right	Caudate Nucleus	6	15	6	19	3.36	<0.001
Cluster 7					141	Cluster level (pFWE) = 0.0414	
Left	Middle Frontal Gyrus	-33	51	-12	48	3.87	<0.001
Left	Superior Frontal Gyrus	-27	54	0	17	3.65	<0.001
Left	Inferior Frontal Gyrus (Orbital)	-54	39	-6	34	3.30	<0.001
Cluster 8					48	Cluster level (pFWE) = 0.7004	
Left	Inferior Frontal Gyrus (Opercular)	-60	6	9	24	3.66	<0.001
Left	Inferior Frontal Gyrus (Triangular)	-42	18	9	19	2.99	0.0014
Cluster 9					49	Cluster level (pFWE) = 0.6844	
Left	Inferior Frontal Gyrus (Triangular)	-36	24	21	28	3.10	<0.001
Cluster 10					68	Cluster level (pFWE) = 0.4077	
Left	Supramarginal Gyrus	-51	-51	33	15	3.49	<0.001

Left	Inferior Parietal Lobule	-45	-51	48	51	3.29	<0.001
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Supplementary Table 7. Brain activations time-locked to coupled SW-SP complexes during sleep after the MSL > CTRL task at C4 contralateral to the trained hand (dataset 1, N = 12).

Hemisphere	Region	x	y	z	Size	Z-score	p (unc.)
Cluster 1					653		Cluster level (pFWE) <0.001
Left	Thalamus (Mediodorsal)	-3	-12	3	26	4.87	<0.001
Right	Thalamus (Ventral Posterolateral)	18	-21	12	24	4.45	<0.001
Left	Thalamus (Ventral Lateral)	-15	-12	6	47	4.37	<0.001
Right	Thalamus (Mediodorsal lateral)	6	-9	3	15	4.14	<0.001
Right	Thalamus (Ventral Lateral)	15	-9	9	51	3.94	<0.001
Left	Thalamus (Medial Pulvinar)	-6	-24	9	15	3.99	<0.001
Left	Insular cortex	-33	-15	21	9	3.74	<0.001
Left	Rolandic Operculum	-45	-15	18	15	3.57	<0.001
Right	Putamen	30	-18	3	16	3.70	<0.001
Left	Thalamus (Ventral Posterolateral)	-18	-21	9	17	3.59	<0.001
Left	Precentral Gyrus	-45	-9	30	10	3.36	<0.001
Cluster 2					305		Cluster level (pFWE) <0.001
Right	Angular Gyrus	36	-51	30	54	4.50	<0.001
Right	Superior Parietal Lobule	21	-78	48	19	3.83	<0.001
Right	Middle Cingulate Cortex	18	-36	45	19	3.09	<0.001
Right	Supplementary Motor Area	9	-21	51	12	2.90	<0.001
Right	Superior Occipital Gyrus	18	-60	39	23	3.39	<0.001
Cluster 3					248		Cluster level (pFWE) = 0.0018
Left	Angular Gyrus	-45	-60	33	90	3.63	<0.001
Left	Precuneus	-15	-60	36	11	3.60	<0.001
Left	Middle Temporal Gyrus	-51	-54	21	11	3.41	<0.001
Cluster 4					315		Cluster level (pFWE) <0.001
Right	Postcentral Gyrus	42	-21	33	150	3.99	<0.001
Right	Primary Motor Cortex	39	-30	51	62	3.82	<0.001
Right	Precentral Gyrus	30	-27	69	63	3.84	<0.001
Right	Primary Motor Cortex (hand area)	33	-18	54	40	2.91	<0.001
Cluster 5					970		Cluster level (pFWE) <0.001
Left	Lingual Gyrus	-15	-78	-9	61	3.24	<0.001
Left	Calcarine Cortex	0	-87	3	108	3.25	<0.001
Right	Calcarine Cortex	18	-72	12	197	3.83	<0.001
Right	Cuneus	15	-81	33	135	3.46	<0.001
Right	Superior Occipital Gyrus	27	-84	27	33	2.71	<0.001
Right	Lingual Gyrus	15	-75	0	34	3.36	<0.001
Left	Cerebellum (Crus I)	-6	-75	-24	51	3.75	<0.001
Left	Cuneus	-6	-93	21	192	3.47	<0.001
Cluster 6					136		Cluster level (pFWE) = 0.0438
Left	Calcarine Cortex	-18	-72	6	84	3.78	<0.001
Left	Lingual Gyrus	-21	-69	-3	37	3.40	<0.001
Cluster 7					152		Cluster level (pFWE) = 0.0268
Right	Caudate Nucleus	18	12	12	59	3.34	<0.001
Cluster 8					64		Cluster level (pFWE) = 0.4431

Left	Cerebellum (Lobules IV-V)	-12	-57	-21	30	3.45	<0.001
Left	Cerebellum (Lobule VI)	-27	-42	-30	18	3.08	<0.001
Cluster 9					40	Cluster level (pFWE) = 0.8151	
Left	Cerebellum (Crus I)	-36	-75	-24	31	3.19	<0.001

Supplementary Table 8. Brain activations during the MSL task training session (combined dataset, N = 31).

Hemisphere	Region	x	y	z	Size	Z-score	p (unc.)
Cluster 1					518		Cluster-level (pFWE) <0.001
Left	Cerebellum (Lobules IV-V)	-15	-54	-21	140	inf	<0.001
Cluster 2					161		Cluster-level (pFWE) <0.001
Right	Cerebellum	27	-60	-24	143	inf	<0.001
Cluster 3					1471		Cluster-level (pFWE) <0.001
Right	Primary Motor Cortex (hand area)	36	-21	51	264	inf	<0.001
Right	Superior Frontal Gyrus	33	-6	57	122	7.54	<0.001
Left	Premotor Cortex	-30	-3	54	121	6.96	<0.001
Left	Supplementary Motor Area	-3	0	51	164	6.56	<0.001
Cluster 4					116		Cluster-level (pFWE) <0.001
Right	Putamen	24	3	3	48	6.42	<0.001
Right	Thalamus	15	-18	6	7	5.25	<0.001
Cluster 5							Cluster-level (pFWE) <0.001
Left	Precentral Gyrus	-57	3	27		6.26	<0.001
Cluster 6					17		Cluster-level (pFWE) <0.001
Left	Superior Parietal Lobe	18	-57	66	17	5.83	<0.001
Cluster 7					98		Cluster-level (pFWE) <0.001
Left	Inferior Parietal Lobe	-33	-42	48	61	5.81	<0.001
Cluster 8					35		Cluster-level (pFWE) <0.001
Left	Putamen	-24	3	0	23	5.60	<0.001
Cluster 9					75		Cluster-level (pFWE) <0.001
Right	Precentral Gyrus	57	6	27	61	5.41	<0.001