

NetTable 3. Localizations of S-ketamine-induced Increases (Anesthesia vs. Baseline) in Regional Cerebral Metabolic Rate of Oxygen (rCMRO₂).

Absolute SPM-analysis (T = 3, k = 400).

Lobe	Region		Proportion of	Proportion of the Region	Cluster		Maximum Voxel		
			Cluster Volume (%)	Covered by the Cluster (%)	Voxels	p	MNI Coordinates		
CLUSTER 1					31834	<0.001	-42	-44	-18
Frontal Lobe	Precentral Gyrus	R	0.6	4.68	191				
	Inferior Frontal Gyrus	R	2.1	14.33	669				
	Middle Frontal Gyrus	L	0.18	0.77	57				
	Middle Frontal Gyrus	R	2.63	11.51	837				
	Superior Frontal Gyrus	L	0.47	2.59	150				
	Superior Frontal Gyrus	R	1.96	10.64	624				
	Medial Frontal Gyrus	R	1.71	13.09	544				
Paracentral Lobule		R	0.19	7.9	60				
Parietal Lobe	Inferior Parietal Lobule	R	0.31	3.32	99				
	Superior Parietal Lobule	R	0.24	9.12	76				
	Precuneus	L	0.8	6.9	255				
	Precuneus	R	0.83	6.84	264				
	Postcentral Gyrus	R	2.14	22.52	681				

Temporal Lobe	Transverse Temporal Gyrus	R	0.3	39.66	96
	Fusiform Gyrus	L	2.56	46.54	815
	Fusiform Gyrus	R	0.85	15.46	271
	Middle Temporal Gyrus	L	0.62	3.91	197
	Middle Temporal Gyrus	R	1.37	8.71	436
	Superior Temporal Gyrus	R	3.53	21.42	1124
Occipital Lobe	Inferior Occipital Gyrus	L	1.19	52.87	379
	Inferior Occipital Gyrus	R	0.73	32	232
	Middle Occipital Gyrus	L	1.32	16.87	420
	Middle Occipital Gyrus	R	1.55	19.69	493
	Lingual Gyrus	L	1.84	27.32	586
	Lingual Gyrus	R	1.58	22.82	503
	Cuneus	L	0.8	8.95	255
	Cuneus	R	2.44	26.3	777
Limbic Lobe	Anterior Cingulate	R	1.52	30.37	484
	Subcallosal Gyrus	R	0.28	30.82	89
	Uncus	R	0.41	19.85	131
	Inferior Temporal Gyrus	L	0.94	21.85	299
	Inferior Temporal Gyrus	R	1.21	28.22	385

Insula		R	0.77	11.44	245
Lentiform Nucleus		R	0.19	5.37	60
Anterior Lobe of Cerebellum	Culmen	L	0.22	2.71	70
Posterior Lobe of Cerebellum	Declive	L	1.28	18.21	407
	Declive	R	0.63	8.89	201
	Tuber	L	0.52	13.01	166
	Tuber	R	0.22	5.33	70
Total % of the Cluster			43.0		13698

CLUSTER 2 **1686 <0.001 16 -42 0**

Limbic Lobe	Posterior Cingulate	L	5.46	9.91	92
	Posterior Cingulate	R	23.78	39.59	401
	Parahippocampal Gyrus	L	4.8	3.95	81
	Parahippocampal Gyrus	R	9.85	8.2	166
Thalamus		R	6.7	11.11	113
Total % of the Cluster			50.6		853

CLUSTER 3 **827 0.006 -62 -18 -6**

Parietal Lobe	Postcentral Gyrus	L	23.46	6.44	194
Temporal Lobe	Middle Temporal Gyrus	L	8.34	1.38	69
	Superior Temporal Gyrus	L	22.73	3.59	188
	Transverse Temporal Gyrus	L	9.55	32.38	79
Insula		L	23.7	9.23	196
Total % of the Cluster			87.8		726

CLUSTER 4					723	0.013	-40	0	6
Frontal Lobe	Precentral Gyrus	L	7.19	1.28	52				
	Inferior Frontal Gyrus	L	27.39	4.29	198				
Temporal Lobe	Superior Temporal Gyrus	L	16.46	2.27	119				
Insula		L	37.07	12.62	268				
Total % of the Cluster			88.1		637				

R = Right Hemisphere, L = Left Hemisphere, T = Height Threshold, k = Extend Threshold. Unlocalized proportions were not identifiable, located outside neural tissue or were sized < 50 voxels.