Table, Supplemental Digital Content 2: Local maxima within significant clusters of seed to voxel functional connectivity changes for saline > ketamine contrast, with target clusters thresholded for FDR-corrected p < 0.05

|  | **Region Identified by Atlas** |  |  | **MNI Coordinates** |
| --- | --- | --- | --- | --- |
| **Seed Region** | **AAL** | **Anatomy Toolbox** | **Harvard-Oxford** | **Extent** | **t-value** | **x** | **y** | **z** |
| Anterior cingulate | Frontal\_Sup\_2\_R | R Superior Frontal Gyrus | Superior Frontal Gyrus | 120 | 6.75 | 20 | 4 | 64 |
| Rectus\_L | Location not in atlas | Frontal Pole | 124 | -7.05 | 0 | 62 | -16 |
|  |  |  |  |  |  |  |  |  |
| Left Amygdala | Putamen\_L | Location not in atlas | Left Putamen | 120 | 5.58 | -28 | 8 | -2 |
|  |  |  |  |  |  |  |  |  |
| Right Amygdala | Postcentral\_R | R Postcentral Gyrus | Postcentral Gyrus | 712 | 7.11 | 32 | -34 | 56 |
| Postcentral\_R | R Postcentral Gyrus | Postcentral Gyrus | 712 | 5.09 | 20 | -38 | 72 |
|  | Precentral\_R | Location not in atlas | Right Cerebral White Matter | 712 | 5.02 | 36 | -12 | 48 |
|  | Postcentral\_R | R Postcentral Gyrus | Postcentral Gyrus | 712 | 3.85 | 34 | -36 | 62 |
|  | Supp\_Motor\_Area\_R | R Posterior-Medial Frontal | Right Cerebral White Matter | 179 | 5.62 | 8 | -24 | 58 |
|  |  |  |  |  |  |  |  |  |
| Right Anterior Para-hippocampus | Postcentral\_L | L Postcentral Gyrus | Postcentral Gyrus | 391 | 6.29 | -42 | -36 | 60 |
| Precentral\_L | Location not in atlas | Left Cerebral White Matter | 391 | 4.98 | -24 | -24 | 56 |
| Postcentral\_L | L Postcentral Gyrus | Postcentral Gyrus | 391 | 4.22 | -48 | -16 | 58 |
|  |  |  |  |  |  |  |  |  |
| Left Hippocampus | Paracentral\_Lobule\_R | R Paracentral Lobule | Right Cerebral White Matter | 254 | 6.57 | 6 | -30 | 70 |
| Precentral\_L | L Posterior-Medial Frontal | Precentral Gyrus | 254 | 3.69 | -14 | -16 | 70 |
|  |  |  |  |  |  |  |  |  |
| Right Hippocampus | Paracentral\_Lobule\_L | L Paracentral Lobule | Precentral Gyrus | 669 | 6.21 | 0 | -26 | 62 |
| Location not in atlas | Location not in atlas | Left Cerebral White Matter | 669 | 4.84 | -16 | -6 | 58 |
|  | Postcentral\_L | Location not in atlas | Precentral Gyrus | 669 | 4.78 | -20 | -30 | 60 |
|  | Precentral\_R | R Postcentral Gyrus | Postcentral Gyrus | 403 | 5.78 | 54 | -12 | 42 |
|  | Location not in atlas | Location not in atlas | Left Cerebral White Matter | 132 | 5.73 | -30 | -18 | 44 |
|  | Postcentral\_L | L Postcentral Gyrus | Postcentral Gyrus | 110 | 5.58 | -50 | -16 | 54 |
|  | Frontal\_Inf\_Oper\_L | L IFG (p. Triangularis) | Middle Frontal Gyrus | 95 | 5.32 | -54 | 18 | 32 |
|  | Temporal\_Inf\_L | L Inferior Temporal Gyrus | Inferior Temporal Gyrus, temporooccipital | 152 | 5.32 | -52 | -46 | -16 |
|  | Postcentral\_R | R Precentral Gyrus | Precentral Gyrus | 105 | 5.03 | 62 | 0 | 24 |
|  |  |  |  |  |  |  |  |  |
| Left Postcentral Gyrus  | Location not in atlas | Location not in atlas | Location not in atlas | 159 | 6.49 | 0 | 2 | -8 |
| ParaHippocampal\_R | Location not in atlas | Right Hippocampus | 159 | 6.29 | 16 | -10 | -22 |
|  | Temporal\_Mid\_L | L Middle Temporal Gyrus | Lateral Occipital Cortex, inferior division | 105 | 5.23 | -42 | -68 | 12 |
|  | Cingulate\_Mid\_R | R MCC | Juxtapositional Lobule (formerly SMA) | 104 | 4.77 | 8 | -10 | 46 |
|  | Parietal\_Inf\_L | L Inferior Parietal Lobule | Supramarginal Gyrus, posterior division | 1129 | -5.94 | -48 | -46 | 58 |
|  | SupraMarginal\_L | L SupraMarginal Gyrus | Supramarginal Gyrus, posterior division | 1129 | -5.51 | -54 | -42 | 30 |
|  | SupraMarginal\_L | L Postcentral Gyrus | Postcentral Gyrus | 1129 | -4.40 | -62 | -22 | 36 |
|  |  |  |  |  |  |  |  |  |
| Right Posterior Para-hippocampus | Postcentral\_L | Location not in atlas | Left Cerebral White Matter | 711 | 6.65 | -32 | -32 | 46 |
| Precentral\_L | L Precentral Gyrus | Precentral Gyrus | 711 | 6.50 | -30 | -12 | 62 |
|  |  |  |  |  |  |  |  |  |

Notes: Because of the directionality of the defined contrast (saline > ketamine), positive t-values reflect decreased connectivity under ketamine, compared to saline. Negative t-values indicate increased connectivity under ketamine, compared to saline. MNI= Montreal Neurological Institute, referring to standard-space brain atlas coordinates.