**1st Level Clusters**

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| **Table 1**  Significant clusters revealed during stimulation of the left hand (p < 0.01 uncorrected) | | | | | |
| Anatomical region | | Cluster size (voxels) | MNI coordinates (peak) | *t-*score | *z*-score | |
|  | |  | X Y Z |  |  | |
| Left Frontal Pole | | 1968 | -30 28 24 | 5.70 | 5.56 | |
| Left Superior Frontal Gyrus | | 1211 | -6 36 42 | 4.69 | 4.62 | |
| Left Frontal Pole | | 1016 | -10 62 8 | 4.48 | 4.42 | |
| Right Precentral Gyrus | | 709 | 28 -16 76 | 5.90 | 5.76 | |
| Left Middle Temporal Gyrus | | 486 | -68 -28 -6 | 4.43 | 4.36 | |
| Left Occipital Pole | | 360 | -10 -96 30 | 4.09 | 4.04 | |
| Right Frontal Pole | | 324 | 14 56 10 | 3.85 | 3.81 | |
| Left Lateral Occipital Cortex | | 321 | -54 -60 40 | 3.52 | 3.49 | |
| Right Frontal Pole | | 303 | 42 54 -2 | 4.23 | 4.18 | |
| Right Temporal Pole | | 253 | 56 22 -16 | 3.94 | 3.89 | |
| **Right Central Opercular Cortex (SII)** | | **236** | **70 -16 16** | **4.39** | **4.33** | |
| Right Occipital Pole | | 211 | 8 -96 -10 | 3.68 | 3.64 | |
| Right Angular Gyrus | | 143 | 56 -48 30 | 3.30 | 3.27 | |
| Right Lateral Occipital Cortex | | 105 | 32 -72 14 | 3.66 | 3.62 | |
| Left Temporal Pole | | 102 | -58 4 -34 | 3.35 | 3.32 | |
| Right Cerebellum | | 95 | 36 -80 -36 | 3.38 | 3.35 | |
| Left Middle Frontal Gyrus | | 88 | -44 10 56 | 2.82 | 2.80 | |
| Left Occipital Pole | | 64 | -18 -106 4 | 3.38 | 3.35 | |
| Right Cingulate Gyrus | | 59 | 10 -42 38 | 2.84 | 2.83 | |
| Right Middle Temporal Gyrus | | 57 | 60 -36 -14 | 2.97 | 2.95 | |
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| **Table 2**  Significant clusters revealed during stimulation of the right hand (p < 0.01 uncorrected) | | | | | |
| Anatomical region | | Cluster size (voxels) | MNI coordinates (peak) | *t-*score | *z*-score | |
|  | |  | X Y Z |  |  | |
| Right Middle Temporal Gyrus | | 1912 | 52 -40 10 | 4.55 | 4.48 | |
| **Left Postcentral Gyrus (SII)** | | **1331** | **-54 -28 56** | **4.84** | **4.76** | |
| Right Occipital Pole | | 999 | 8 -96 -10 | 4.42 | 4.36 | |
| Left Superior Frontal Gyrus | | 970 | -8 -8 78 | 4.85 | 4.77 | |
| Right Precentral Gyrus | | 686 | 30 -18 -58 | 4.60 | 4.53 | |
| Left Inferior Temporal Gyrus | | 534 | -60 -46 -18 | 3.58 | 3.55 | |
| Left Precuneus | | 534 | -2 -62 66 | 3.23 | 3.21 | |
| Right Frontal Orbital Cortex | | 441 | 50 32 -10 | 3.45 | 3.42 | |
| Right Frontal Pole | | 406 | 32 56 -6 | 3.66 | 3.62 | |
| Right Lateral Occipital Cortex | | 323 | 34 -68 52 | 3.30 | 3.27 | |
| Left Cerebellum | | 222 | -16 -80 -36 | 3.64 | 3.60 | |
| Juxtapositional Lobule Cortex | | 158 | 0 -10 58 | 3.49 | 3.46 | |
| Right Middle Frontal Gyrus | | 130 | 44 34 28 | 3.21 | 3.19 | |
| Right Middle Frontal Gyrus | | 127 | 44 6 58 | 3.43 | 3.40 | |
| Right Frontal Pole | | 112 | 20 40 -18 | 3.52 | 3.49 | |
| Left Lateral Occipital Cortex | | 78 | -46 -74 12 | 2.91 | 2.89 | |
| Left Intracalcarine Cortex | | 69 | -6 -68 8 | 2.82 | 2.80 | |
| Brainstem | | 58 | -2 -38 2 | 2.97 | 2.95 | |
| Right Cerebellum | | 57 | 50 -76 22 | 3.48 | 3.45 | |
| Left Lateral Occipital Cortex | | 50 | -30 -76 46 | 2.63 | 2.61 | |
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| **Table 3**  Significant clusters revealed during perceiving alternating stimuli (p < 0.01 uncorrected) | | | | | |
| Anatomical region | | Cluster size (voxels) | MNI coordinates (peak) | *t-*score | *z*-score | |
|  | |  | X Y Z |  |  | |
| Left Precentral Gyrus | | 23246 | -51 -10 53 | 23.74 | Inf | |
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| **Table 4**  Significant clusters revealed during perceiving simultaneous stimuli (p < 0.01 uncorrected) | | | | | |
| Anatomical region | | Cluster size (voxels) | MNI coordinates (peak) | *t-*score | *z*-score | |
|  | |  | X Y Z |  |  | |
| Right Frontal Pole | | 178 | 24 62 -13 | 11.08 | Inf | |
| Left Lateral Occipital Cortex | | 121 | 21 -79 53 | 6.47 | 6.44 | |
| Left Lateral Occipital Cortex | | 82 | -15 -88 41 | 5.49 | 5.47 | |
| Left Lateral Occipital Cortex | | 82 | -24 -67 68 | 6.53 | 6.49 | |
| Left Postcentral Gyrus | | 80 | -45 -37 68 | 6.83 | 6.79 | |
| Right Superior Parietal Lobule | | 57 | 24 -49 77 | 5.68 | 5.66 | |
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| **Table 5**  Significant clusters revealed during switching (p < 0.01 uncorrected) | | | | | |
| Anatomical region | | Cluster size (voxels) | MNI coordinates (peak) | *t-*score | *z*-score | |
|  | |  | X Y Z |  |  | |
| Left Middle Frontal Gyrus | | 20842 | -27 -4 56 | 22.43 | Inf | |
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