**Supplementary File 3**

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| Univariate contrasts related to scene-validity during the search period. |
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| Brain region | L/R | Cluster size (voxel number) | Peak MNI coordinate (x,y,z) | Z-score |  |
|  |
| ***Contrast: scene-invalid vs. scene-valid*** |  |
| Inferior frontal gyrus | L | 832 | -40 8 28  | 4.34 |  |
| Inferior frontal gyrus | R | 1075 |  42 8 28  | 3.70 |  |
| Inferior parietal sulcus | L | 318 | -30 -64 40  | 3.68 |  |
| Inferior parietal sulcus | R | 561 |  36 -62 34  | 3.27 |  |
| Insula | L | 88 | -28 26 -4  | 3.36 |  |
| Insula | R | 296 |  30 32 -8  | 3.53 |  |
| Anterior cingulate cortex (ACC) | R | 582 |  6 40 40  | 3.04 |  |
|  |  |  |  |  |  |
| ***Contrast: scene-valid vs. scene-invalid*** |  |
| Superior parietal lobule | L | 1512 | -24 -44 74  | 3.93 |  |
| Supramarginal | L | 2980 | -62 -34 32  | 3.61 |  |
| Superior parietal lobule | R | 6044 |  26 -40 54  | 3.69 |  |
| Supramarginal | R |  |  64 -36 42  | 3.47 |  |
| Middle occipital gyrus | L | 1465 | -38 -86 6  | 3.19 |  |
| Inferior occipital gyrus | R | 1517 |  42 -86 -6  | 3.10 |  |
| Peak voxel coordinate is defined in MNI152 standard space. Voxel size: 2.0 2.0 2.0 mm mm mm; L, left; R, right; MNI, Montreal Neurological Institute. |  |
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