**Supplementary File 2**

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| Whole-brain searchlight results of brain regions showing significant decoding during the ***search*** ***delay*** period. |
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| Brain region | L/R | Cluster size (voxel number) | Peak MNI coordinate (x,y,z) | Z-score |  |
|  |
| ***Decoding of face information*** |  |  |  |  |  |
| None |  |  |  |  |  |
|  |  |  |  |  |  |
| ***Decoding of scene information*** |  |  |  |  |  |
| Retrosplenial cortex | L | 3065 | -14 -54 12  | 4.73 |  |
| Retrosplenial cortex | R | 914 |  14 -48 12  | 3.98 |  |
| Precentral | R | 491 |  50 2 42  | 3.75 |  |
| Inferior frontal gyrus | R |  |  48 6 32  | 3.54 |  |
| Precentral | L | 192 | -42 -2 32  | 2.83 |  |
| Precentral | L | 54 | -36 -22 54  | 2.20 |  |
| Superior frontal gyrus | R | 605 |  18 36 38  | 3.08 |  |
| Precuneus | R | 205 |  10 -60 46  | 2.45 |  |
| Parahippocampal | L | 83 | -32 -36 -16  | 2.34 |  |
| Parahippocampal | R | 165 |  28 -58 -12  | 2.17 |  |
| 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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