**Table S1. Brain network activated (“+”) / deactivated (“-”) by the DS task: DS minus “no task”. Brain regions are ordered by the decrease in the region’s volume involved in the activity of the corresponding component.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Component # | t-value  | p-valueFDRcorr  | Brain Region | Brodmann Areas | Volume, cc |
| 4 | 4.05 | 0.011 | +Extra-Nuclear | \* | 20,00 |
|  |  |  | +Lateral Ventricle | \* | 15,50 |
|  |  |  | +Caudate | \* | 6,80 |
|  |  |  | +Sub-Gyral | \* | 3,40 |
|  |  |  | +Thalamus | \* | 2,80 |
|  |  |  | +Cingulate Gyrus | 24 | 2,50 |
|  |  |  | +Superior Frontal Gyrus | 6, 8, 9, 10 | 2,50 |
|  |  |  | +Inferior Parietal Lobule | 40 | 0,90 |
|  |  |  | -Middle Temporal Gyrus | 19, 21 | 2,7 |
|  |  |  | -Superior Frontal Gyrus | 6, 9, 10 | 2,3 |
|  |  |  | -Middle Frontal Gyrus | 6, 8, 9, 10, 11, 47 | 2,2 |
|  |  |  | -Inferior Frontal Gyrus | 47 | 1,6 |
|  |  |  | -Middle Occipital Gyrus | 18, 19 | 1,6 |
|  |  |  | -Precentral Gyrus | 6 | 1,4 |
|  |  |  | -Superior Temporal Gyrus | 22, 38 | 1,3 |
|  |  |  | -Lingual Gyrus | 18 | 1,2 |
|  |  |  | -Inferior Parietal Lobule | 39, 40 | 1 |

**Table S2. Brain network activated (“+”) / deactivated (“-”) by task: DS minus DN. Brain regions are ordered by the decrease in the region’s volume involved in the activity of the corresponding component.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Component # | t-value | p-valueFDRcorr | Brain Region | Brodmann Areas | Volume, cc |
| 3 | 3.41 | 0.018 | +Middle Temporal Gyrus | 19, 21, 22, 37, 39 | 13,5 |
|  |  |  | +Superior Temporal Gyrus | 13, 22, 39, 41, 42 | 10,1 |
|  |  |  | +Inferior Parietal Lobule | 7, 39, 40 | 8,6 |
|  |  |  | +Supramarginal Gyrus | 40 | 4,7 |
|  |  |  | +Middle Occipital Gyrus | 19, 37 | 4 |
|  |  |  | +Superior Frontal Gyrus | 6, 8, 9, 10 | 3 |
|  |  |  | +Middle Frontal Gyrus | 6, 10, 46 | 2,7 |
|  |  |  | +Precuneus | 7, 19, 39 | 2,1 |
|  |  |  | +Sub-Gyral | \* | 2,1 |
|  |  |  | +Angular Gyrus | 39 | 2 |
|  |  |  | +Postcentral Gyrus | 2, 5, 7, 40 | 1,2 |
|  |  |  | +Inferior Temporal Gyrus | 19, 37 | 1,1 |
|  |  |  | -Middle Occipital Gyrus | 18, 19 | 3,1 |
|  |  |  | -Postcentral Gyrus | 3, 7 | 3 |
|  |  |  | -Medial Frontal Gyrus | 6, 10 | 2,3 |
|  |  |  | -Lingual Gyrus | 17, 18 | 1,9 |
|  |  |  | -Precuneus | 7, 19 | 1,3 |
|  |  |  | -Superior Frontal Gyrus | 6, 8, 9, 10 | 1,3 |
|  |  |  | -Lateral Ventricle | \* | 1,3 |
|  |  |  | -Inferior Parietal Lobule | 7, 39, 40 | 1,1 |
|  |  |  | -Cuneus | 7, 17, 18, 19 | 0,9 |
| 30 | 3.68 | 0.011 | +Inferior Frontal Gyrus | 9, 10, 13, 44, 45, 46, 47 | 16 |
|  |  |  | +Superior Temporal Gyrus | 13, 21, 22, 38, 39, 42 | 8,9 |
|  |  |  | +Middle Frontal Gyrus | 6, 8, 9, 10, 11, 46, 47 | 6,1 |
|  |  |  | +Middle Temporal Gyrus | 19, 21, 22, 37, 39 | 6,1 |
|  |  |  | +Middle Occipital Gyrus | 18, 19, 37 | 3,5 |
|  |  |  | +Superior Frontal Gyrus | 6, 8, 9, 10 | 1,8 |
|  |  |  | +Culmen | \* | 1,6 |
|  |  |  | +Sub-Gyral | \* | 1,3 |
|  |  |  | +Postcentral Gyrus | 1, 2, 3, 7, 40 | 1,1 |
|  |  |  | -Superior Frontal Gyrus | 6, 8, 9, 10 | 7,7 |
|  |  |  | -Middle Frontal Gyrus | 6, 8, 9, 10 | 4,7 |
|  |  |  | -Cuneus | 7, 18, 19 | 3,2 |
|  |  |  | -Precuneus | 7, 19, 31 | 2,5 |
|  |  |  | -Inferior Parietal Lobule | 39, 40 | 2,1 |
|  |  |  | -Parahippocampal Gyrus | 28, 34 | 1,7 |
|  |  |  | -Sub-Gyral | 21 | 1,4 |
|  |  |  | -Postcentral Gyrus | 1, 2, 5, 40, 43 | 1,3 |
|  |  |  | -Precentral Gyrus | 6 | 1,2 |
|  |  |  | -Extra-Nuclear | 13 | 1 |
| 40 | -3.25 | 0.022 | +Precentral Gyrus | 4, 6 | 16,1 |
|  |  |  | +Superior Frontal Gyrus | 6, 8, 9, 10 | 11,8 |
|  |  |  | +Middle Frontal Gyrus | 6, 9, 10 | 9,3 |
|  |  |  | +Postcentral Gyrus | 1, 2, 3, 5, 7, 40, 43 | 5,9 |
|  |  |  | +Medial Frontal Gyrus | 6, 8, 10 | 5,7 |
|  |  |  | +Sub-Gyral | 6, 40 | 4,3 |
|  |  |  | +Inferior Frontal Gyrus | 9, 45, 46, 47 | 1,8 |
|  |  |  | +Inferior Parietal Lobule | 40 | 1,3 |
|  |  |  | -Middle Frontal Gyrus | 6, 8, 9, 10, 46 | 5 |
|  |  |  | -Middle Temporal Gyrus | 19, 21, 39 | 3,6 |
|  |  |  | -Superior Frontal Gyrus | 6, 8, 9, 10 | 3 |
|  |  |  | -Precuneus | 7, 19, 31, 39 | 2,6 |
|  |  |  | -Inferior Parietal Lobule | 40 | 2,5 |
|  |  |  | -Superior Parietal Lobule | 7 | 1,7 |
|  |  |  | -Middle Occipital Gyrus | 18, 19 | 1,6 |
| 41 | -4.03 | 0.012 | +Extra-Nuclear | \* | 16,1 |
|  |  |  | +Lentiform Nucleus | \* | 15,8 |
|  |  |  | +Inferior Frontal Gyrus | 44, 45, 46, 47 | 5,1 |
|  |  |  | +Cuneus | 17, 18, 19 | 3,2 |
|  |  |  | +Middle Temporal Gyrus | 19, 21, 37, 39 | 3,1 |
|  |  |  | +Lingual Gyrus | 17, 18 | 2,7 |
|  |  |  | +Caudate | \* | 2,6 |
|  |  |  | +Middle Occipital Gyrus | 18, 19, 37 | 2,3 |
|  |  |  | +Middle Frontal Gyrus | 6, 8, 9 | 2,2 |
|  |  |  | +Precuneus | 7, 19 | 1,1 |
|  |  |  | +Precentral Gyrus | 6, 44 | 1,1 |
|  |  |  | +Superior Frontal Gyrus | 6, 8, 9, 10 | 1,1 |
|  |  |  | -Middle Frontal Gyrus | 6, 8, 9, 10, 47 | 6,2 |
|  |  |  | -Inferior Parietal Lobule | 40 | 4,1 |
|  |  |  | -Superior Frontal Gyrus | 6, 8, 9, 10 | 3,2 |
|  |  |  | -Inferior Frontal Gyrus | 9, 47 | 2,5 |
|  |  |  | -Superior Temporal Gyrus | 22, 38 | 1,8 |
|  |  |  | -Superior Parietal Lobule | 5, 7 | 1,4 |
|  |  |  | -Middle Temporal Gyrus | 21 | 1,4 |
| 48 | 3.78 | 0.012 | +Posterior Cingulate | 23, 29, 30 | 6,4 |
|  |  |  | +Lingual Gyrus | 18, 19 | 6,1 |
|  |  |  | +Parahippocampal Gyrus | 27, 28, 30, 34, 35, 36 | 5,9 |
|  |  |  | +Precuneus | 7, 19, 23, 31 | 5,3 |
|  |  |  | +Extra-Nuclear | \* | 4,2 |
|  |  |  | +Thalamus | \* | 3,7 |
|  |  |  | +Superior Temporal Gyrus | 22, 38, 41, 42 | 3 |
|  |  |  | +Culmen | \* | 1,7 |
|  |  |  | +Cuneus | 7, 18, 19, 30 | 1,7 |
|  |  |  | +Middle Occipital Gyrus | 18, 19 | 1,4 |
|  |  |  | +Superior Frontal Gyrus | 6, 8, 9, 10 | 1,3 |
|  |  |  | +Fusiform Gyrus | 19, 20, 37 | 1,3 |
|  |  |  | -Superior Frontal Gyrus | 6, 8, 9, 10 | 2 |
|  |  |  | -Cuneus | 18, 19 | 1 |
|  |  |  | -Middle Temporal Gyrus | 19, 21, 39 | 1 |
|  |  |  | -Inferior Frontal Gyrus | 9, 44, 45, 46 | 0,9 |
|  |  |  | -Superior Frontal Gyrus | 6, 8, 9, 10 | 2 |