

Table S1. Peak coordinates of connectivity maps with caudate subregions

| Regions | Peak (mm) x y z | t-value | z-value | R ANC | 45 -60 36 | 5.28 | 4.75 | L IPC | -36 -54 54 | 5.13 | 4.64 |
|---|--------------------|---------|---------|---|-------------|-------|------|---|-------------|-------|------|
| | | | | R MFC | 42 15 54 | 4.90 | 4.46 | R Precuneus | 24 -48 30 | 4.93 | 4.49 |
| K=1, Positive connectivity map | | | | K=3, Negative connectivity map of cluster 2 seed | | | | | | | |
| R Caud/R OLF | 9 18 3 | 36.17 | Inf | L Caud | -9 21 -3 | 9.22 | 7.21 | R SFC | 27 66 -9 | 4.29 | 3.98 |
| L Cerebellum | -30 -78 -36 | 5.16 | 4.66 | L Caud | -18 3 27 | 8.13 | 6.61 | K=9, Positive connectivity map of cluster 5 seed | | | |
| L SFC | -27 63 6 | 5.05 | 4.57 | R Caud | 18 -15 21 | 6.30 | 5.48 | R Caud/R AMY | 12 3 12 | 30.67 | Inf |
| R Cerebellum | 30 -78 -36 | 4.78 | 4.37 | R ParaCL | 3 -45 72 | 5.83 | 5.15 | L IFC | -51 21 12 | 7.83 | 6.44 |
| R Cerebellum | 6 -81 -18 | 4.04 | 3.77 | R SMA | 9 -3 78 | 4.68 | 4.29 | R IOFC | 48 21 -15 | 7.59 | 6.30 |
| K=1, Negative connectivity map | | | | L CALC | 6 -96 -15 | 4.29 | 3.98 | L medSFC | 0 39 45 | 7.44 | 6.21 |
| R Precuneus | 3 -51 72 | 6.13 | 5.36 | K=3, Positive connectivity map of cluster 3 seed | | | | | | | |
| L THAL | -15 -9 -3 | 4.38 | 4.05 | L Caud/R Caud | -15 -3 21 | 41.00 | Inf | L MTC | -66 -33 -9 | 5.77 | 5.11 |
| R SMC/R IPC | 57 -39 39 | 4.36 | 4.03 | K=3, Negative connectivity map of cluster 3 seed | | | | | | | |
| K=2, Positive connectivity map of cluster 1 seed | | | | L Caud/R ACC | -9 12 6 | 6.69 | 5.74 | R Cerebellum | 15 -81 -27 | 5.62 | 5.00 |
| L Caud/L MOFC | -9 18 0 | 42.46 | Inf | L STC/L INS | -45 -21 6 | 6.09 | 5.33 | L Cerebellum | -15 -81 -33 | 5.46 | 4.88 |
| L Cunues | 3 -84 42 | 4.81 | 4.40 | R INS | 36 -18 21 | 6.08 | 5.33 | R MTC | 57 -39 -3 | 5.41 | 4.85 |
| L MOC | -45 -87 -9 | 4.63 | 4.25 | L Precuneus/L MCC | -9 -42 3 | 5.87 | 5.18 | L SMC | -57 -51 30 | 4.91 | 4.47 |
| K=2, Negative connectivity map of cluster 1 seed | | | | L IOC | -36 -81 -9 | 5.41 | 4.85 | R ANC | 51 -51 30 | 4.68 | 4.30 |
| L Caud/L IOFC | -15 3 18 | 10.24 | 7.70 | R THAL | 6 -12 -3 | 5.22 | 4.71 | K=9, Negative connectivity map of cluster 5 seed | | | |
| R Caud/R THAL | 15 0 18 | 6.58 | 5.66 | R medSFC/L ACC | 15 48 3 | 5.16 | 4.66 | R ACC/L Caud | 6 12 18 | 11.25 | Inf |
| L SMC/L IPC | -57 -57 24 | 6.04 | 5.30 | R IOFC | 33 -87 -6 | 5.08 | 4.60 | R INS | 39 -9 21 | 5.88 | 5.19 |
| R MFC/R IFC | 39 9 51 | 5.82 | 5.14 | L MTC | -54 -6 -27 | 5.00 | 4.54 | L INS | -42 -3 -6 | 4.80 | 4.38 |
| R SMC/R IPC | 60 -48 27 | 5.50 | 4.91 | L SFC | -15 63 36 | 4.97 | 4.52 | L SMC | -48 -24 24 | 4.39 | 4.06 |
| R medSFC | 12 36 51 | 5.48 | 4.90 | R SOC | 18 -93 36 | 4.46 | 4.12 | K=9, Positive connectivity map of cluster 6 seed | | | |
| R IOFC | 42 36 -18 | 5.45 | 4.87 | R CALC | 18 -48 6 | 4.42 | 4.09 | L Caud | -18 6 21 | 53.45 | Inf |
| L MFC | -42 12 45 | 5.30 | 4.77 | L PreC | -36 -27 63 | 4.36 | 4.04 | R Caud | 18 6 24 | 26.52 | Inf |
| R MTC | 63 -24 -12 | 5.10 | 4.62 | L ITC | -66 -24 -18 | 4.35 | 4.03 | K=9, Negative connectivity map of cluster 6 seed | | | |
| R HIPPI | 9 -15 -24 | 5.00 | 4.54 | L STC/L MTC | -45 -39 9 | 4.32 | 4.01 | R Caud | 12 9 12 | 9.88 | 7.53 |
| L MTC | -63 -24 -15 | 4.82 | 4.40 | K=9, Positive connectivity map of cluster 7 seed | | | | | | | |
| K=2, Positive connectivity map of cluster 2 seed | | | | R Caud/L Caud | 12 21 9 | 29.86 | Inf | R PostC/R Precuneus | 24 -45 39 | 4.86 | 4.43 |
| L Caud | -12 6 12 | 34.51 | Inf | L IOFC | -36 -84 -9 | 4.28 | 3.97 | R IFC | 42 24 24 | 4.74 | 4.34 |
| R Cerebellum | 15 -78 -27 | 6.46 | 5.58 | K=9, Negative connectivity map of cluster 7 seed | | | | | | | |
| R MFC | 42 12 51 | 5.90 | 5.20 | K=9, Negative connectivity map of cluster 1 seed | | | | R Caud/L MOFC | -9 21 3 | 38.17 | Inf |
| L ANC/L IPC | -54 -66 39 | 4.97 | 4.52 | R Caud | 15 21 0 | 10.76 | Inf | K=9, Negative connectivity map of cluster 7 seed | | | |
| R MTC | 63 -15 -15 | 4.71 | 4.32 | L Caud | -15 21 0 | 8.13 | 6.62 | R Caud | 9 12 -6 | 10.49 | 7.81 |
| L Cerebellum | 0 -51 -42 | 4.63 | 4.25 | R SFC | 21 60 15 | 4.81 | 4.39 | R MCC | 9 -12 30 | 5.97 | 5.25 |
| K=2, Negative connectivity map of cluster 2 seed | | | | K=9, Positive connectivity map of cluster 2 seed | | | | | | | |
| R Caud/R OLF | 15 27 3 | 8.36 | 6.74 | R Caud/R MCC | 18 18 12 | 40.87 | Inf | R ANC/R Precuneus | 30 -42 33 | 5.37 | 4.82 |
| R ParaCL | 3 -45 72 | 6.59 | 5.67 | L Caud | -18 18 6 | 28.10 | Inf | L PreC | -48 9 39 | 5.34 | 4.80 |
| L MOC | -33 -93 12 | 5.73 | 5.08 | L MFC | -21 54 30 | 6.08 | 5.33 | R Cerebellum | 12 -87 -39 | 5.31 | 4.77 |
| R MOC | 36 -93 0 | 5.13 | 4.64 | R medSFC | 12 57 18 | 4.89 | 4.46 | R INS | 45 -12 21 | 5.11 | 4.62 |
| R MFC | 33 -21 69 | 4.05 | 3.78 | K=9, Positive connectivity map of cluster 8 seed | | | | | | | |
| K=3, Positive connectivity map of cluster 1 seed | | | | K=9, Negative connectivity map of cluster 2 seed | | | | K=9, Positive connectivity map of cluster 8 seed | | | |
| L Caud/L MOFC | -9 18 0 | 41.19 | Inf | L Caud/L OLF | -6 21 9 | 10.86 | Inf | L Caud/R Caud | -18 -12 21 | 38.18 | Inf |
| L SFC | -12 69 9 | 4.15 | 3.87 | R Caud | 12 3 15 | 9.21 | 7.20 | R THAL/ THAL | 3 -24 12 | 6.64 | 5.70 |
| K=3, Negative connectivity map of cluster 1 seed | | | | L Caud | -12 0 15 | 7.94 | 6.51 | K=9, Negative connectivity map of cluster 8 seed | | | |
| R Caud | 12 9 12 | 10.38 | 7.77 | L MOC | -39 -93 -9 | 5.26 | 4.73 | R Caud | 21 9 24 | 6.61 | 5.69 |
| L Caud | -12 6 15 | 10.17 | 7.67 | R SOFC | 30 66 -6 | 4.32 | 4.00 | L Caud | -18 6 18 | 6.16 | 5.38 |
| L IOFC | -42 39 -9 | 7.30 | 6.12 | R MFC | 54 27 36 | 4.24 | 3.94 | K=9, Positive connectivity map of cluster 9 seed | | | |
| L SMC | -57 -57 27 | 6.08 | 5.33 | K=9, Positive connectivity map of cluster 3 seed | | | | | | | |
| R SMC | 66 -51 27 | 6.02 | 5.28 | L Caud/R Caud | -6 9 6 | 31.85 | Inf | L Caud/R medOFC | -9 15 -3 | 49.42 | Inf |
| R HIPPI | 6 -15 -24 | 5.86 | 5.17 | R FFC | 21 -51 -12 | 4.35 | 4.03 | L Precuneus/L PCC | -6 -63 30 | 5.94 | 5.23 |
| R MTC | 66 -27 -12 | 5.83 | 5.15 | L CALC | -6 -51 3 | 4.26 | 3.95 | L HIPPI | -24 -24 -18 | 4.37 | 4.04 |
| R MOFC | 36 42 -12 | 5.74 | 5.08 | K=9, Negative connectivity map of cluster 3 seed | | | | | | | |
| R MFC | 39 12 48 | 5.58 | 4.97 | L Caud | -15 6 15 | 9.52 | 7.36 | L Caud | -6 9 9 | 6.96 | 5.91 |
| L MTC | -57 6 -27 | 5.46 | 4.89 | R Caud | 15 9 15 | 9.17 | 7.18 | R IPC | 39 -30 60 | 4.90 | 4.47 |
| L MTC | -63 -24 -15 | 5.36 | 4.81 | R Caud | 12 18 -9 | 7.38 | 6.17 | R IFC | 57 18 9 | 4.76 | 4.36 |
| R medSFC | 6 48 33 | 5.34 | 4.80 | R Caud | 18 27 9 | 7.13 | 6.02 | K=9, Negative connectivity map of cluster 9 seed | | | |
| L MFC | -42 12 45 | 5.25 | 4.73 | L Cerebellum | -18 -69 -24 | 4.83 | 4.41 | | | | |
| R MCC | 21 -39 33 | 4.95 | 4.50 | L Precuneus | 0 -60 66 | 4.68 | 4.29 | | | | |
| R Cerebellum | 18 -78 -30 | 4.59 | 4.22 | R Cerebellum | 21 -93 -30 | 4.25 | 3.95 | | | | |
| K=3, Positive connectivity map of cluster 2 seed | | | | K=9, Positive connectivity map of cluster 4 seed | | | | | | | |
| R Caud | 12 12 12 | 44.78 | Inf | L Caud | -9 9 18 | 32.81 | Inf | | | | |
| R Cerebellum | 30 -81 -36 | 8.26 | 6.69 | R INS | 45 -6 9 | 6.44 | 5.57 | | | | |
| R MTC | 63 -27 -9 | 6.94 | 5.89 | L HIPPI | -24 -42 15 | 5.49 | 4.91 | | | | |
| L Cerebellum | -30 -78 -36 | 6.83 | 5.83 | L STC | -48 -3 -3 | 5.09 | 4.61 | | | | |
| L ANC | -54 -66 39 | 6.77 | 5.79 | R Cerebellum | 6 -21 -51 | 4.20 | 3.91 | | | | |
| L Precuneus/L MCC | -3 -54 33 | 5.60 | 4.99 | K=9, Negative connectivity map of cluster 4 seed | | | | | | | |
| R HIPPI | 12 -9 -24 | 5.38 | 4.83 | L Caud | -15 6 9 | 13.95 | Inf | | | | |
| L Cerebellum | 0 -54 -42 | 5.31 | 4.77 | L IFC | -48 15 18 | 6.28 | 5.46 | | | | |
| | | | | L MFC | -39 39 27 | 5.44 | 4.87 | | | | |
| | | | | R IFC | 54 21 15 | 5.24 | 4.72 | | | | |

Coordinates for peak voxels are presented in MNI space. Caud, caudate; OLF, olfactory cortex; SFC, superior frontal cortex; SMC, supramarginal cortex; IPC, inferior parietal cortex; MOFC, middle orbitofrontal cortex; MOC, middle occipital cortex; IOFC, inferior orbitofrontal cortex; MFC, middle frontal cortex; IFC, inferior frontal cortex; medSFC, medial superior frontal cortex; MTC, middle temporal cortex; HIPPI, hippocampus; MTC, middle temporal cortex; ANC, angular cortex; ParaCL, paracentral lobule; SFC, superior frontal cortex; MCC, middle cingulate cortex; SMA, supplementary motor area; CALC, calcarine cortex; ACC, anterior cingulate cortex; STC, superior temporal cortex; INS, insula; IOC, inferior occipital cortex; THAL, thalamus; SOC, superior occipital cortex; PreC, precentral cortex; ITC, inferior temporal cortex; SOFC, superior orbitofrontal cortex; FFC, fusiform face cortex; AMY, amygdala; PostC, postcentral cortex; PCC, posterior cingulate cortex; medOFC, medial orbitofrontal cortex.