**Supplementary materials:**

Table 2. Epilepsy and healthy group FC comparison results (both cluster and connection thresholds: p < 0.05, FDR-corrected).

|  |  |  |
| --- | --- | --- |
| CLUSTER, ROIs | F/T value | p value |
| **Cluster 1** | 20.94 | 0.000001 |
| Hippocampus (L) | Hippocampus (R) | -6.35  | 0.000000 |
| pPaHC (L) | Amygdala (R) | -5.77  | 0.000003 |
| pPaHC (L) | Hippocampus (R) | -5.12  | 0.000016 |
| Hippocampus (L) | Amygdala (R) | -4.85  | 0.000044 |
| Amygdala (R) | Amygdala (L) | -3.26  | 0.003027 |
| Hippocampus (R) | Amygdala (L) | -3.03  | 0.007201 |
| Hippocampus (R) | Amygdala (R) | -2.91  | 0.008494 |
| pPaHC (L) | Amygdala (L) | -2.07  | 0.042548 |
| pPaHC (L) | Hippocampus (L) | -2.07  | 0.042548 |
| **Cluster 2** | 16.66  | 0.000005 |
| MPFC  | Hippocampus (L) | -4.64  | 0.000191 |
| MPFC | Hippocampus (R) | -4.25  | 0.000255 |
| MPFC | Amygdala (L) | -4.24  | 0.000255 |
| MPFC | pPaJC (L) | -3.51  | 0.002126 |
| MPFC | Amygdala (R) | -3.32  | 0.003047 |
| pPaHC (R) | pPaHC (L) | -3.35  | 0.013693 |
| pPaHC (R) | Hippocampus (R) | -2.84  | 0.030427 |
| aPaHC (R) | pPaHC (L) | -3.00  | 0.039447 |
| pPaHC (R) | Amygdala (R) | -2.48  | 0.039918 |
| pPaHC (R) | Hippocampus (L) | -2.17  | 0.052307 |
| **Cluster 3**  | 8.84  | 0.000866 |
| Thalamus (R) | Hippocampus (L) | -3.85  | 0.002678 |
| Thalamus (R) | Amygdala (R) | -3.65  | 0.002678 |
| Thalamus (R) | Amygdala (L) | -3.46  | 0.002678 |
| Thalamus (R) | pPaHC (L) | -3.44  | 0.002678 |
| Thalamus (L) | Amygdala (L) | -3.74  | 0.004120 |
| Thalamus (R) | Hippocampus (R) | -3.09  | 0.005962 |
| Thalamus (L) | Amygdala (R) | -3.26  | 0.008781 |
| Thalamus (L) | Hippocampus (L) | -3.14  | 0.008781 |
| Thalamus (L) | Hippocampus (R) | -2.70  | 0.019059 |
| Thalamus (L) | pPaHC (L) | -2.43  | 0.029754 |
| **Cluster 4** |  7.17  | 0.014294 |
| Thalamus (R) | Thalamus (L) | -2.68  | 0.015882 |

Table 3. Focal epilepsy and healthy group FC comparison results(both cluster and connection thresholds: p<0.05, FDR-corrected).

|  |  |  |
| --- | --- | --- |
| CLUSTER, ROIs | F/T value | p value |
| **Cluster 1** | F=20.91 | 0.000001 |
| Hippocampus (L) | Hippocampus (R) | -6.19  | 0.000001 |
| Amygdala (R) | pPaHC (L) | -5.40  | 0.000015 |
| pPaHC (L) | Hippocampus (R) | -4.94  | 0.000039 |
| Amygdala (R) | Hippocampus (L) |  -4.77  | 0.000072 |
| Amygdala (L) | Hippocampus (R) |  -2.97  |  0.008950 |
| Amygdala (R) | Amygdala (L) | -3.06  | 0.011491 |
| Amygdala (R) | Hippocampus (R) | -2.34  | 0.033139 |
| **Cluster 2** | F=14.99 | 0.000021 |
| MPFC | Hippocampus (L) | -4.31  | 0.000699 |
| MPFC | Amygdala (L) | -3.86  | 0.001232 |
| MPFC | Hippocampus (R) | -3.80  | 0.001232 |
| pPaHC (R) | pPaHC (L) | -4.13  | 0.001288 |
| MPFC | pPaHC (L) | -3.24  | 0.005048 |
| MPFC | Amygdala (R) | -2.69  | 0.017435 |
| pPaHC (R) | pPaHC (L) | -3.17  | 0.024866 |
| pPaHC (R) | Hippocampus (R) | -2.59  | 0.041331 |
| **Cluster 3**  | F=6.41 | 0.006422 |
| Thalamus (R) | Hippocampus (L) | -3.49  | 0.007348 |
| Thalamus (R) | Amygdala (L) | -3.35  | 0.007348 |
| Thalamus (R) | pPaHC (L) | -3.20  | 0.007754 |
| Thalamus (R) | Amygdala (R) | -2.94  | 0.011904 |
| Thalamus (R) | Hippocampus (R) | -2.61  | 0.019577 |
| Thalamus (L) | Amygdala (L) | -3.03  | 0.036528 |
| Thalamus (L) | Hippocampus (L) | -2.56  | 0.036528 |
| Thalamus (L) | Amygdala (R) | -2.52  | 0.036528 |
| **Cluster 4** | F=7.26  | 0.014041 |
| Thalamus (R) | Thalamus (R) | -2.70  | 0.018722 |
| **Cluster 5** | F=3.46  | 0.046493 |
| MPFC | pPaHC (R) | -2.65  | 0.017435 |
| MPFC | aPaHC (L) | -2.22  | 0.043887 |

Table 4. Generalized epilepsy and healthy group FC comparison results (both cluster and connection thresholds: p<0.05, FDR-corrected).

|  |  |  |
| --- | --- | --- |
| CLUSTER, ROIs | F/T value | p value |
| **Cluster 1** | 8.37  | 0.007129 |
| Thalamus (L) | Amygdala (L) | -3.72  | 0.005977 |
| Thalamus (L) | Amygdala (R) | -3.55  | 0.005977 |
| Thalamus (R) | Amygdala (R) | -3.60  | 0.010369 |
| **Cluster 2** | 9.61  | 0.011822 |
| Hippocampus (L) | Hippocampus (R) | -3.10  | 0.019704 |
| **Cluster 3**  | 5.67  | 0.015547 |
| Amygdala (R) | Hippocampus (R) | -2.92  | 0.012607 |
| Amygdala (R) | Hippocampus (L) | -2.66  | 0.020080 |
| MPFC | Hippocampus (R) | -3.13  | 0.022019 |
| MPFC | Hippocampus (L) | -2.64  | 0.041699 |
| **Cluster 4** | 4.80  | 0.022571 |
| Thalamus (L) | Hippocampus (L) | -3.11  | 0.012924 |
| Thalamus (R) | Hippocampus (R) |  -2.85  |  0.027679 |
| Thalamus (R) | Hippocampus (L) | -2.81  | 0.027679 |
| **Cluster 5** | 4.20  | 0.028743 |
| pPaHC (L) | Amygdala (R) | -3.43  | 0.016548 |
| MPFC | Amygdala (R) | -3.06  | 0.022019 |

Table 5. Temporal epilepsy and healthy group comparison results (both cluster and connection thresholds: p<0.05, FDR-corrected).

|  |  |  |
| --- | --- | --- |
| CLUSTER, ROIs | F/T value | p value |
| **Cluster 1** |  7.62  | 0.037218 |
| Hippocampus (R) | Hippocampus (L) | -4.02  | 0.002878 |
| pPaHC (L) | Hippocampus (R) | -2.81  | 0.040138 |
| pPaHC (L) | Amygdala (R) | -2.58  | 0.046696 |

Table 6. Extratemporal epilepsy and healthy group FC comparison results (both cluster and connection thresholds: p<0.05, FDR-corrected).

|  |  |  |
| --- | --- | --- |
| CLUSTER, ROIs | F/T value | p value |
| **Cluster 1** | 17.13  | 0.000020 |
| Hippocampus (L) | Hippocampus (R) | -5.77  | 0.000007 |
| Amygdala (R) | pPaHC (L) | -5.64  | -0.000011 |
| Amygdala (R) | Hippocampus (L) | -5.19  | 0.000025 |
| pPaHC (L) | Hippocampus (R) | -4.61  | 0.000171 |
| Amygdala (L) | Hippocampus (R) | -2.90  | 0.017863 |
| Amygdala (R) | Amygdala (L) | -2.73  | 0.018318 |
| **Cluster 2** | 14.26  | 0.000053 |
| MPFC | Hippocampus (L) | -4.39  | 0.000696 |
| MPFC | Amygdala (L) | -4.15  | 0.000743 |
| MPFC | Hippocampus (R) | -3.51  | 0.003520 |
| MPFC | Amygdala (R) | -3.07  | 0.009163 |
| MPFC | pPaHC (L) | -2.73  | 0.014997 |
| pPaHC (R) | pPaHC (L) | -3.35  | 0.016531 |
| aPaHC (R) | pPaHC (L) | -3.11  | 0.032485 |
| aPaHC (L) | Hippocampus (R) | -3.08  | 0.035703 |
| aPaHC (L) | Amygdala (R) | -2.58  | 0.044223 |
| pPaHC (R) | Hippocampus (R) | -2.34  | 0.048323 |
| pPaHC (R) | Hippocampus (L) | -2.34  | 0.048323 |
| **Cluster 3**  | 6.29  | 0.008052 |
| Thalamus (R) | Hippocampus (L) | -3.32  | 0.008035 |
| Thalamus (R) | pPaHC (L) | -3.27  | 0.008035 |
| Thalamus (R) | Amygdala (L) | -3.22  | 0.008035 |
| Thalamus (R) | Amygdala (R) | -2.75  | 0.021770 |
| Thalamus (R) | Hippocampus (R) | -2.63  | 0.023403 |
| Thalamus (L) | Amygdala (L) | -2.82  | 0.033467 |
| Thalamus (L) | Hippocampus (R) | -2.59  | 0.033467 |
| Thalamus (L) | Hippocampus (L) | -2.58  | 0.033467 |
| Thalamus (L) | Amygdala (R) | -2.45  | 0.036293 |
| Thalamus (L) | pPaHC (L) | -2.25  | 0.048923 |
| **Cluster 4** | 5.42  | 0.011913 |
| pPaHC (R) | MPFC | -2.82  | 0.035496 |
| aPaHC (L) | MPFC | -2.59  | 0.044223 |