# Additional file 1

Table S1. The region weights (Z-score) of PDRP subnetwork.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PDRP subnetwork region | | | | | |
| *Underactive PDRP region* | | | *Active PDRP region* | | |
| Brodmann area | AAL region | Z-value | Brodmann area | AAL region | Z-value |
| *43* | Calcarine\_L | -1.765 | *21* | Olfactory\_L | 1.097 |
| *45* | Cuneus\_L | -1.559 | *22* | Olfactory\_R | 1.031 |
| *46* | Cuneus\_R | -1.483 | *71* | Caudate\_L | 1.431 |
| *47* | Lingual\_L | -1.222 | *74* | Putamen\_R | 1.121 |
| *49* | Occipital\_Sup\_L | -1.817 | *75* | Pallidum\_L | 1.699 |
| *50* | Occipital\_Sup\_R | -1.803 | *76* | Pallidum\_R | 1.081 |
| *51* | Occipital\_Mid\_L | -1.959 | *77* | Thalamus\_L | 1.245 |
| *52* | Occipital\_Mid\_R | -1.929 | *78* | Thalamus\_R | 1.288 |
| *53* | Occipital\_Inf\_L | -1.811 | *91* | Cerebelum\_L | 1.611 |
| *54* | Occipital\_Inf\_R | -2.040 | *92* | Cerebelum\_R | 1.441 |
| *59* | Parietal\_Sup\_L | -1.269 | *93* | Vermis | 1.841 |
| *60* | Parietal\_Sup\_R | -1.055 | *94* | Pons\_L | 2.597 |
| *61* | Parietal\_Inf\_L | -1.220 | *95* | Pons\_R | 2.724 |
| *62* | Parietal\_Inf\_R | -1.298 |  |  |  |
| *65* | Angular\_L | -1.814 |  |  |  |
| *66* | Angular\_R | -1.885 |  |  |  |

Table S2. SUVR changes of PDRP subnetwork.

|  |  |  |
| --- | --- | --- |
| Brain region | SUVR change between 3-month follow-up and baseline | SUVR change between 12-month and 3-month follow-up |
| Caudate\_L | -6.02±4.14%\*\* | 3.06±4.31% |
| Putamen\_R | -3.92±3.47%\*\* | 7.19±3.04%\* |
| Pallidum\_L | -2.99±5.10% | 4.18±2.71%\* |
| Pallidum\_R | -3.91±3.63%\* | 7.82±5.38% |
| Thalamus\_L | -3.70±3.74%\* | 3.13±3.03% |
| Thalamus\_R | -5.31±3.18%\*\* | 4.36±4.39% |
| Cerebelum\_L | -0.81±4.36% | 2.73±6.22% |
| Cerebelum\_R | -3.47±4.66% | 4.27±4.58% |
| Vermis | -3.51±4.09%\* | 4.81±4.01% |
| Pons\_L | -7.42±6.43%\*\* | 7.34±9.42% |
| Pons\_R | -8.07±5.92%\*\* | 9.68±10.4% |
| Olfactory\_L | -3.51±3.97%\* | 0.34±5.82% |
| Olfactory\_R | -3.19±4.21%\* | 1.37±4.06% |
| Calcarine\_L | 3.52±3.25%\* | -1.61±2.73% |
| Cuneus\_L | 3.38±4.65% | -1.88±2.43% |
| Cuneus\_R | 3.15±3.94%\* | -1.44±2.58% |
| Lingual\_L | 1.71±2.17%\* | -0.66±3.74% |
| Occipital\_Sup\_L | 2.93±5.23% | -2.51±3.42% |
| Occipital\_Sup\_R | 2.87±4.36% | -2.35±1.88%\* |
| Occipital\_Mid\_L | 2.63±3.74% | -4.53±1.23%\*\* |
| Occipital\_Mid\_R | 1.81±2.85% | -3.74±0.68%\*\* |
| Occipital\_Inf\_L | 2.64±3.45%\* | -1.07±6.59% |
| Occipital\_Inf\_R | 1.26±3.48% | -2.14±2.75% |
| Parietal\_Sup\_L | 4.95±4.48%\* | 0.29±4.76% |
| Parietal\_Sup\_R | 4.27±4.79%\* | 0.73±3.47% |
| Parietal\_Inf\_L | 3.88±3.03%\*\* | -0.09±4.62% |
| Parietal\_Inf\_R | 3.21±4.45% | 0.51±2.74% |
| Angular\_L | 3.57±4.73% | -2.45±1.52%\* |
| Angular\_R | 3.47±6.04% | -3.03±4.75% |

Note: SUVR change = (SUVR of follow-up – SUVR of baseline)/SUVR of baseline \* 100%; SUVR is calculated using global mean uptake as reference value.

\* is *P* < 0.05; \*\* is *P* < 0.01; *P* value is derived by one sample t-test for mean equal to zero.

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**Fig. S1.** The brain network properties of cohort II in the sparsity threshold 25%-50%.