Supplementary Table II.- Clusters that resulted correlated with clinical measures; MMSE, CAMCOG, CAF, UPDRS, NPIhall (NPI Hallucinations)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | K | MNI | rho | p-value | Clinical |  |
| HC > DLB | 1 | 22,48,26 | -0.560 | 0.013 | MMSE | Right frontal gyrus |
| HC > DLB | 4 | 24,-68,-26 | -0.517 | 0.023 | NPIhall | Cerebellar right VI |
| **HC > DLB** | **53** | **-26,-26,66** | **-0.49** | **0.033** | **CAF** | **Left pre-central gyrus** |
| HC < DLB | 2 | -4,-60,22 | +0.503 | 0.028 | CAMCOG | Left precuneus cortex |
| HC < AD | 1 | -16,-48,42 | -0.501 | 0.034 | MMSE | Left precuneus cortex |
| HC < AD | 6 | -34,-36,70 | +0.528 | 0.024 | CAMCOG | Right lingual gyrus |
|  |  |  |  |  |  |  |

Supplementary Table III.- Correlations with anatomical seeds

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Anatomical regions | Clinical variable | rho | p-value |
| DLB | Left thalamus | MMSE | +0.635 | 0.003 |
|  | Right thalamus | MMSE | +0.507 | 0.027 |
|  | Left caudate | UPDRS | +0.542 | 0.017 |
|  | Left putamen | UPDRS | +0.747 | <0.001 |
|  | Right putamen | CAF | +0.582 | 0.009 |
|  | L Cuneus | NPI hall | +0.507 | 0.027 |
|  | R Cunues | NPI hall | +0526 | 0.021 |
| AD | Left Thalamus | CAMCOG | +0.565 | 0.014 |

Supplementary Table IV.- Categorical Years of Education; Healthy controls (HC), DLB and AD participants. Years of education was recorded as a categorical variable in 4 levels.

|  |  |
| --- | --- |
|  | years of education |
| <9 years | 9-11 years | 12-13 years | 14+ years |
| diagnosis | HC | 0 | 11 | 2 | 3 |
| AD | 0 | 12 | 2 | 4 |
| DLB | 2 | 14 | 0 | 3 |
| Total | 2 | 37 | 4 | 10 |

Chi-square Test: p-value=0.411, df=6, showing no significant differences.