**Table S1** Correlation between GMV and FC values and clinical variables in the SCI subgroups that showed statistical differences in GMV.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Group | Side of the ASIA motor score | *r* | *p* |
| FC between the sub-cluster MFG\_R with MCC\_R / precuneus\_R | Entire group | Right | 0.43 | 0.02 |
| Complete sub-group | Left | 0.62 | 0.04 |
| Right | 0.72 | 0.01 |
| Incomplete sub-group | Right | 0.58 | 0.01 |
| Sub-cluster INS\_L | Entire group | None |  |  |
|  | Pain sub-group | Left  | 0.64 | 0.01 |
|  |  | Right | 0.61 | 0.01 |
|  | Pain-free sub-group | None |  |  |
| Sub-cluster IFGorb\_L | Entire group | None |  |  |
|  | Pain sub-group | Left  | 0.60 | 0.01 |
|  |  | Right | 0.64 | 0.01 |
|  | Pain-free sub-group | None |  |  |

Note: ASIA, American Spinal Injury Association; L, left; R, right; MFG, middle frontal gyrus; MCC, middle cingulate; INS, insular; and IFGorb, the pars orbitalis in the inferior frontal gyrus.