**S10 Table:** Non parametric Jonckheere-Terpstra permutation analysis (JT) for four key random walk steps (RWSs).

|  |  |  |
| --- | --- | --- |
| RWS | ROIs | Connections |
| *JT* | *p-value* | *JT* | *p-value* |
| 1 | 7.5 | <10-10 | 7.6 | <10-10 |
| 2 | 7.3 | <10-10 | 7.9 | <10-10 |
| 4 | 5.9 | <10-5 | 6.7 | <10-5 |
| 10 | 3.5 | <10-2 | 4.6 | <10-4 |