**S7 Table A and B: T1 [ms] single subject’s values**

A.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sbj** | **ROI** (fig.S2A bottom left) | **Incident connections**(fig.S2A bottom right) | **ROI vs. inc. connections**(fig.S2B bottom) | **Mean ROI vs connecting fibre**(fig.S2C bottom) |
| *JT* | *p* | *JT* | *p* | *r* | *p* | *r* | *p* |
| 9 | 7.11 | <10-10 | 4.20 | <10-4 | 0.60 | <10-5 | 0.65 | <10-10 |
| 8 | 6.88 | <10-10 | 4.78 | <10-5 | 0.71 | <10-10 | 0.70 | <10-10 |
| 7 | 4.11 | <10-4 | 3.15 | <10-3 | 0.62 | <10-10 | 0.65 | <10-10 |
| 6 | 7.60 | <10-10 | 6.00 | <10-5 | 0.77 | <10-10 | 0.65 | <10-10 |
| 5 | 7.01 | <10-10 | 4.24 | <10-4 | 0.63 | <10-10 | 0.65 | <10-10 |
| 4 | 8.32 | <10-10 | 3.16 | <10-3 | 0.59 | <10-5 | 0.62 | <10-10 |
| 3 | 8.10 | <10-10 | 4.74 | <10-5 | 0.60 | <10-5 | 0.66 | <10-10 |
| 2 | 7.18 | <10-10 | 5.79 | <10-5 | 0.75 | <10-10 | 0.64 | <10-10 |
| 1 | 7.41 | <10-10 | 6708 | <10-10 | 0.74 | <10-10 | 0.72 | <10-10 |

B.

|  |  |  |
| --- | --- | --- |
| **Sbj** | **connected** | **unconnected** |
| *r* | *p* | *r* | *p* |
| 9 | 0.23 | <10-5 | -0.03 | 0.07 |
| 8 | 0.32 | <10-10 | -0.03 | 0.05 |
| 7 | 0.30 | <10-5 | -0.04 | 0.02 |
| 6 | 0.43 | <10-10 | -0.01 | 0.54 |
| 5 | 0.30 | <10-5 | -0.02 | 0.34 |
| 4 | 0.18 | <10-3 | -0.003 | 0.88 |
| 3 | 0.32 | <10-5 | -0.005 | 0.74 |
| 2 | 0.26 | <10-5 | 0.003 | 0.86 |
| 1 | 0.31 | <10-5 | -0.03 | 0.07 |