**Table S5**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ROIs from the **Fronto-parietal Network**  DV: **Switch RT (set-switching speed)** | | | | | | | | | |
|  |  | Global Efficiency | | | | Local Efficiency | | | |
|  |  | 250 | | 300 | | 250 | | 300 | |
|  |  | β | R2 | β | R2 | β | R2 | β | R2 |
| Step 1 |  |  | .62 |  | .62 |  |  |  | .62 |
|  | Age | -.31\*\* |  | -.31\*\* |  | -.31\*\* |  | -.31\*\* |  |
|  | Sex | .13 |  | .13 |  | .13 |  | .13 |  |
|  | Single RT | .56\*\*\* |  | .56\*\*\* |  | .56\*\*\* |  | .56\*\*\* |  |
|  |  |  |  |  |  |  |  |  |  |
| Step 2 | SupPar |  | .62 |  | .63 |  | .62 |  | .62 |
|  | Age | -.33\*\* |  | -.34\*\* |  | -.36 |  | -.32\*\* |  |
|  | Sex | .14 |  | .14 |  | .15† |  | .13 |  |
|  | Single RT | .57\*\*\* |  | .57\*\*\* |  | .56\*\*\* |  | .56\*\* |  |
|  | ROI | .12 |  | .15 |  | .13 |  | .01 |  |
|  | Age x ROI | -.07 |  | -.10 |  | -.05 |  | .04 |  |
| Step 2 | LatOcc |  | .62 |  | .62 |  | .62 |  | .62 |
|  | Age | -.31\*\* |  | -.32\*\* |  | -.32\*\* |  | -.33\*\* |  |
|  | Sex | .13 |  | .13 |  | .12 |  | .12 |  |
|  | Single RT | .57\*\*\* |  | .57\*\*\* |  | .54\*\*\* |  | .56\*\*\* |  |
|  | ROI | .02 |  | .04 |  | -.09 |  | .02 |  |
|  | Age x ROI | -.01 |  | -.02 |  | .11 |  | .03 |  |
| Step 2 | LingFus |  | .62 |  | .62 |  | .64 |  | .63 |
|  | Age | -.30\* |  | -.30\* |  | -.25\* |  | -.28\* |  |
|  | Sex | .13 |  | .13 |  | .13 |  | .12 |  |
|  | Single RT | .55\*\*\* |  | .55\*\*\* |  | .55\*\*\* |  | .55\*\*\* |  |
|  | ROI | -.05 |  | -.06 |  | -.17† |  | -.14 |  |
|  | Age x ROI | .03 |  | .02 |  | .08 |  | .08 |  |

β p-value: †p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001; R2 p-value symbol represents statistical significance of R Square change.