**Supplementary File 10. Correlations between the diffusion parameters (v=mean drift rate, a=boundary separation, Ter=non-decision time) within and between tasks.** As expected, positive correlations of the three diffusion parameters were obtained across the three different tasks assessing attention (**Task 1**, ANT), digit comparison (**Task 2**, DC) and mental rotation (**Task 3**, MRT).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ANT\_v** | **DC\_v** | **MRT\_v** | **ANT\_a** | **DC\_a** | **MRT\_a** | **ANT\_Ter** | **DC\_Ter** | **MRT\_Ter** |
| **ANT\_v** | 1 | .715\*\* | .600\*\* | -.718\*\* | -.570\*\* | -.440\*\* | -.583\*\* | -.610\*\* | -.341\*\* |
| **DC\_v** |  | 1 | .663\*\* | -.661\*\* | -.621\*\* | -.394\*\* | -.614\*\* | -.675\*\* | -.324\*\* |
| **MRT\_v** |  |  | 1 | -.609\*\* | -.525\*\* | -.574\*\* | -.517\*\* | -.571\*\* | -.357\*\* |
| **ANT\_a** |  |  |  | 1 | .688\*\* | .609\*\* | .626\*\* | .655\*\* | .285\*\* |
| **DC\_a** |  |  |  |  | 1 | .598\*\* | .703\*\* | .711\*\* | .330\*\* |
| **MRT\_a** |  |  |  |  |  | 1 | .516\*\* | .552\*\* | .164\*\* |
| **ANT\_Ter** |  |  |  |  |  |  | 1 | .738\*\* | .423\*\* |
| **DC\_Ter** |  |  |  |  |  |  |  | 1 | .443\*\* |
| **MRT\_Ter** |  |  |  |  |  |  |  |  | 1 |