|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Antisaccade | | | |  | Stop-signal | | | |  | Stroop | | | |  | Flanker | | | |  | Shape-matching | | | |  | Word-naming | | | |
|  | rho | *p* | FDR |  |  | rho | *p* | FDR |  |  | rho | *p* | FDR |  |  | rho | *p* | FDR |  |  | rho | *p* | FDR |  |  | rho | *p* | FDR |  |
| *Emotion regulation success* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NEGpermit-distance |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Valence | -.08 | .255 | .884 |  |  | .05 | .506 | .945 |  |  | -.12 | .102 | .884 |  |  | .10 | .183 | .884 |  |  | .01 | .924 | .983 |  |  | -.04 | .542 | .945 |  |
| Arousal | -.10 | .174 | .884 |  |  | -.02 | .757 | .983 |  |  | -.08 | .295 | .884 |  |  | .10 | .173 | .884 |  |  | .04 | .569 | .945 |  |  | .02 | .761 | .983 |  |
| EMG | -.04 | .625 | .945 |  |  | .07 | .332 | .945 |  |  | -.06 | .403 | .945 |  |  | -.03 | .646 | .952 |  |  | -.15 | .042 | .884 |  |  | .08 | .267 | .884 |  |
| HP | -.05 | .538 | .945 |  |  | .05 | .512 | .945 |  |  | .05 | .475 | .945 |  |  | -.05 | .497 | .945 |  |  | .15 | .043 | .884 |  |  | .01 | .887 | .983 |  |
| SCR | .04 | .630 | .945 |  |  | .00 | .946 | .984 |  |  | .02 | .830 | .983 |  |  | .00 | .960 | .984 |  |  | .03 | .729 | .983 |  |  | -.08 | .288 | .884 |  |
| NEGpermit-distance – NEUpermit-distance | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Valence | -.09 | .208 | .884 |  |  | .01 | .909 | .983 |  |  | -.10 | .161 | .884 |  |  | .11 | .116 | .884 |  |  | .00 | .998 | .998 |  |  | -.05 | .478 | .945 |  |
| Arousal | .05 | .522 | .945 |  |  | -.02 | .761 | .983 |  |  | -.10 | .191 | .884 |  |  | .08 | .283 | .884 |  |  | .04 | .616 | .945 |  |  | .01 | .872 | .983 |  |
| EMG | .06 | .434 | .945 |  |  | .04 | .605 | .945 |  |  | .01 | .923 | .983 |  |  | -.03 | .706 | .983 |  |  | -.09 | .220 | .884 |  |  | .13 | .069 | .884 |  |
| HP | -.10 | .179 | .884 |  |  | .02 | .801 | .983 |  |  | .01 | .843 | .983 |  |  | -.05 | .499 | .945 |  |  | .04 | .572 | .945 |  |  | .00 | .958 | .984 |  |
| SCR | .08 | .294 | .884 |  |  | .01 | .861 | .983 |  |  | .02 | .756 | .983 |  |  | -.11 | .143 | .884 |  |  | .10 | .166 | .884 |  |  | -.04 | .605 | .945 |  |
| *ERQ self-report* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reappraisal | -.15 | .044 | .884 |  |  | -.09 | .222 | .884 |  |  | -.06 | .410 | .945 |  |  | -.09 | .238 | .884 |  |  | .00 | .990 | .998 |  |  | .06 | .438 | .945 |  |
| Suppression | -.13 | .080 | .884 |  |  | -.04 | .620 | .945 |  |  | .06 | .397 | .945 |  |  | .13 | .067 | .884 |  |  | .02 | .798 | .983 |  |  | -.11 | .146 | .884 |  |
| *Note.* EMG = corrugator electromyogram; SCR = skin conductance response; HP = heart period; FDR = False Discovery Rate according to Benjamini and Hochberg. Lower values in inhibitory control tasks indicate better performance; higher values in emotion regulation success measures indicate better regulation. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Supplementary Table S7** Spearman correlations between performance in inhibitory control tasks (reaction time scores) and emotion regulation measures