

Supplementary Information

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Supplementary Table 1. Pearson r correlation between networks' activation and other variables

Variables	Empathy Response		Mentalizing / Reactivity	
	r	p	r	p
Synchrony	.34	.002**	-.10	.34
Reactivity	-.12	.27	.25	.03*
Empathy – perspective- taking	.05	.62	.005	.97
Empathy – arousal	-.16	.15	-.002	.99
Empathy – valence	.19	.09	.17	.14

^ The variables in both time points (T1 and T3) were highly correlated to each other ($r = .60$, $p < .0000001$).

** $P_{\text{FDR-corrected}} < 0.05$

* $P_{\text{FDR-uncorrected}} < 0.$