

## Heritability of Resting State EEG Functional Connectivity Patterns

Nienke M. Schutte, Narelle K. Hansell, Eco J.C. de Geus, Nicholas G. Martin, Margaret J. Wright, Dirk J.A. Smit

### Supplementary

Table S1

Model Fitting for the Synchronization Likelihood (SL), Cluster Coefficient (CC) and Path Length (L) in the Beta Frequency Band

Model	Vs.	-2LL	<i>df</i>	$\chi^2$	<i>p</i>	<i>r</i> <sub>MZ</sub>	<i>r</i> <sub>DZ</sub>
SL 0. Saturated model		-4098.92	942				
1. equate true variance males and females	0	-4093.69	943	5.24	0.02		
2. equate correlations within zygosity groups	1	-4092.59	946	1.10	0.78	0.75 (0.68–0.80)	0.31 (0.21–0.40)
3. ADE		-4190.51	965				
4. AE	3	-4184.74	967	5.78	0.06		
CC 0. Saturated model		-4357.17	942				
1. equate true variance males and females	0	-4357.11	943	0.07	0.80		
2. equate correlations within zygosity groups	1	-4353.15	946	3.96	0.27	-0.14 (-0.31–0.05)	0.00 (-0.05–0.05)
3. ADE		-4439.23	965				
4. AE	3	-4439.05	967	0.18	0.91		
L 0. Saturated model		-1562.47	942				
1. equate true variance males and females	0	-1562.45	943	0.01	0.90		
2. equate correlations within zygosity groups	1	-1558.84	946	3.61	0.31	0.41 (0.27–0.52)	0.21 (0.11–0.31)
3. ADE		-1588.35	965				
4. AE	3	-1588.26	967	0.09	0.96		

Note: Vs. = versus; -2LL = -2 log likelihood; *df* = degrees of freedom;  $\chi^2$  = chi-square test statistic; *p* = *p* value.

Supplementary

Table S2

Model Fitting for the Synchronization Likelihood (SL), Cluster Coefficient (CC) and Path Length (L) in the Theta Frequency Band

Model	Vs.	-2LL	df	$\chi^2$	<i>p</i>	<i>r</i> <sub>MZ</sub>	<i>r</i> <sub>DZ</sub>
SL	0.	Saturated model		-5384.58	942		
	1.	equate true variance males and females	0	-5382.29	943	2.29 0.13	
	2.	equate correlations within zygosity groups	1	-5378.78	946	3.52 0.32 0.26 (0.12–0.40)	0.14 (0.03–0.25)
	3.	ADE		-5501.10	965		
	4.	AE	3	-5499.76	966	1.34 0.51	
CC	0.	Saturated model		-3770.99	942		
	1.	equate true variance males and females	0	-3770.20	943	0.79 0.37	
	2.	equate correlations within zygosity groups	1	-3767.40	946	2.80 0.42 0.20 (0.03–0.35)	0.14 (0.03–0.24)
	3.	ADE		-3844.92	965		
	4.	AE	3	-3843.61	966	1.31 0.52	
L	0.	Saturated model		-2605.30	942		
	1.	equate true variance males and females	0	-2602.74	943	2.56 0.11	
	2.	equate correlations within zygosity groups	1	-2597.07	946	5.67 0.13 0.43 (0.29–0.55)	0.15 (0.05–0.25)
	3.	ADE		-2650.03	965		
	4.	AE	3	-2644.22	966	5.81 0.05	

Note: Vs. = versus; -2LL = -2 log likelihood; *df* = degrees of freedom;  $\chi^2$  = chi-square test statistic; *p* = *p* value.