

**TABLES**

**Table S1. Neuroimaging Results**

CONTRAST & BRAIN REGION	BA	Coordinates		
		x	y	z
<b>A) Factor Aggression</b>				
Left middle frontal gyrus (left lateral orbitofrontal cortex)	47	-42	35	1
Right inferior frontal gyrus (right lateral orbitofrontal cortex)	45	42	23	4
Rostral anterior cingulate cortex	32	0	44	7
Left inferior frontal gyrus	9	-45	8	28
Right precentral gyrus	9	39	11	31
Left superior frontal gyrus	6	0	20	55
Right anterior cingulate cortex (right subgenual)	25	3	2	-8
Left cingulate gyrus (left middle cingulate cortex)	24	-3	-4	34
Left middle frontal gyrus	6	-24	-1	61
Right frontal lobe (right subgyral)	6	21	-7	52
Right posterior cingulate cortex	23	3	-43	22
Right cingulate gyrus	31	3	-58	25
Left cingulate gyrus	23	-3	-19	28
Left middle temporal gyrus	39	-48	-55	10
Right middle temporal gyrus	37	45	-61	4
Left middle occipital gyrus	19	-30	-79	16

Right middle occipital gyrus	19	36	-79	16
Right superior temporal gyrus	22	54	-52	16
Left cuneus	17	-9	-91	2
Right cuneus	17	12	-85	7
Right cerebellum (culmen)	N/A	27	-46	-11
Right left fusiform gyrus	37	-30	-46	-10

***B) Factor Time***

Left middle frontal gyrus	10	-27	44	13
Right middle frontal gyrus	10	36	44	16
Left middle frontal gyrus	6	-21	-13	52
Right middle frontal gyrus	6	24	-13	55
Left putamen	N/A	-27	-10	4
Right putamen	N/A	24	-10	7
Right transverse temporal gyrus	42	60	-13	10
Cingulate gyrus	24	0	17	28
Left cingulate gyrus	23	-3	-31	28
Right precuneus	31	6	-67	25
Right lingual gyrus	18	3	-70	1
Left middle temporal gyrus	37	-42	-58	-5
Right fusiform gyrus	37	30	-42	-14
Right angular gyrus	39	45	-64	34

Left angular gyrus	39	-39	-58	33
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**C) Aggression x Time Interaction**

Left middle frontal gyrus (left lateral orbitofrontal cortex)	10	-27	47	-5
Right precuneus	31	3	-61	25
Left intraparietal lobe	39	-45	-64	31
Right intraparietal lobe	7	30	-52	43

P < 0.05, q(FDR) corrected; minimum cluster threshold = 270 mm<sup>3</sup>; BA, Brodman area.

**Table S2. *P*– values of the path weights for the network shown in Figure 5A**

<b>BRAIN REGIONS</b>	L IOFC	Prec	L IPL	R IPL
L IOFC	0	0.455 ↑	<b>0.006</b> ↑	<b>0.000</b> ↑
Prec	0.819 ↑	0	<b>0.005</b> ↑	<b>0.018</b> ↑
L IPL	<b>0.035</b> ↑	<b>0.005</b> ↑	0	0.247 ↑
R IPL	<b>0.038</b> ↑	<b>0.009</b> ↑	0.067 ↑	0

L IOFC, left lateral orbitofrontal cortex; Prec, precuneus; L IPL, left intraparietal lobule; R IPL, right intraparietal lobule. Note that the path weights for all significant connections are marked in bold. The direction of causal influence is from the columns to the rows. Analogous to positive and negative correlations, the arrows besides each path weight reflect the tendency of the BOLD signal in the two ROIs linked by the path: ‘covarying’ paths (↑) to covary either in the same direction (i.e., both tending to increase or decrease together albeit with a phase difference) or ‘antivarying’ paths (↓) to vary in opposite directions (i.e., one tending to increase when the other one decreases).