

Supplementary material

A second seed PLS analysis centered on the peak activation voxel of hippocampal activity associated with the *Self* condition, as revealed by the non-rotated analysis (LV3; MNI $x,y,z = 32 -44 4$), was conducted. This analysis also identified a significant LV (LV5; $p < .01$, 41.29% crossblock, see Figure5) differentiating two patterns of task-related functional connectivity. Consistent with the results from LV4, one pattern was identified during the FamSim condition, while the second pattern was identified during the Self condition. However, this second pattern did not co-vary with the UnfDis condition (For the list of regions associated with LV 5, see tables 6a,b).

Table 6a: Peak regions functionally connected with a right hippocampal seed ($y = -44$) during counterfactual simulations involving self versus a familiar similar character (LV 5). Note: All activations reported survived a threshold of $p < .0002$ (BSR = 3.2), with a cluster size > 10 . BA = approximate Brodmann area. L = Left; R = Right. * The bootstrap ratio (BSR) is the parameter estimate for that voxel over its standard error. It is proportional to a z score.).

REGION OF ACTIVATION	HEMISPHERE	BA	VOXELS	MNI COORDINATES			BSR*
				X	Y	Z	
Cerebellum	L - R		29	-32	-36	-30	-5.8174
Superior Frontal Gyrus	R	10	51	24	62	4	-5.3846
Anterior Cingulate	L	24	37	-2	34	6	-5.2040
Thalamus	L		24	-4	-8	-2	-5.1935
Caudate	L		17	-12	-32	24	-4.0823

Table 6b: Peak regions functionally connected with a right hippocampal seed ($y = -44$) during counterfactual simulation involving a familiar similar character versus self (LV 4).

REGION OF ACTIVATION	HEMISPHERE	BA	VOXELS	MNI COORDINATES			BSR*
				X	Y	Z	
Middle Temporal Gyrus	R - L	21	81	64	4	-8	7.3621
Inferior Parietal Lobule	L	40	159	-46	-52	56	6.5933
Middle Frontal Gyrus	L	8	253	-48	16	48	5.8455
Posterior Cingulate	R	30	98	28	-66	8	5.7316
Precuneus	L	19	67	-32	-86	38	5.6745
Superior Temporal Gyrus	R	38	27	54	10	-10	5.6331
Cerebellum	R - L		115	46	-74	-40	5.6119
Superior Frontal Gyrus	L	6	45	-12	20	56	5.4641
Superior Temporal Gyrus	L - R	22	24	-32	-50	18	4.6208
Hippocampus	R		51	28	-12	-18	4.5037
Middle Frontal Gyrus	L	10	86	-46	50	-2	4.4846
Insula	L	13	13	-42	-12	4	4.3183
Angular Gyrus	R	39	82	36	-60	32	4.2876