

**Supplemental Table S1.**

**Regions revealing main effects or interactions of picture valence**

Region	Coordinates			Peak
	x	y	x	T-score
<b>Main effect of picture valence</b>				
<i>Negative &gt; Neutral</i>				
Cerebellum, L	-18	-76	-38	8.23***
	-4	-54	-40	4.86*
Cerebellum, R	16	-72	-40	5.22*
Middle temporal gyrus, L	-52	-66	10	5.52***
Middle temporal gyrus, R	54	-64	6	9.48***
Posterior cingulate cortex	4	-52	30	9.54***
Superior parietal lobule, R	32	-48	58	5.95***
Supramarginal gyrus, L	-64	-26	36	7.95***
Supramarginal gyrus, R	64	-28	32	9.03***
Upper brain stem	2	-30	-2	8.43***
	-12	-22	-10	5.11*
Insula lobe, L	-28	12	-20	6.69***
Insula lobe, R	38	-2	-10	5.01*
Precentral gyrus, R	44	2	42	6.49***
Medial temporal pole, R	44	20	-36	6.85***
Inferior frontal gyrus, L	-50	34	0	6.11***
Inferior frontal gyrus, R	50	30	0	10.73***
Amygdala, L	-22	-6	-14	7.28***
Amygdala, R	24	-4	-16	9.47***
Superior medial gyrus	6	36	52	4.92*
	6	52	24	9.92***
Rectal gyrus	2	40	-18	4.99*
Mid orbital gyrus	2	54	-14	6.37***
<i>Neutral &gt; Negative</i>				
Precuneus, L	-6	-68	52	5.32**
Precuneus, R	10	-66	54	6.52***
	14	-42	8	5.23*
Calcarine, R	24	-62	20	7.52***
Cerebellum, L	-44	-62	-34	5.01*
	-40	-58	-40	4.94*
Inferior parietal lobule, L	-46	-52	46	6.65***

Inferior parietal lobule, R	48	-48	48	8.10***
Lingual gyrus, L	-30	-48	-4	10.29***
Lingual gyrus, R	30	-46	-4	9.02***
Inferior temporal gyrus, R	62	-40	-16	5.39**
Superior temporal gyrus, L	-40	-38	16	4.87*
	-38	-36	14	4.95*
Superior temporal gyrus, R	58	-10	4	7.58***
Paracentral lobule, L	-2	-32	62	4.98*
Paracentral lobule, R	6	-34	60	5.36**
Postcentral gyrus, L	-20	-30	62	6.73***
Postcentral gyrus, R	24	-30	62	6.76***
Rolandic operculum, L	-44	-30	16	5.07*
	-36	-16	20	5.58**
Middle frontal gyrus, L	-28	14	60	6.03***
	-34	48	16	6.05***
	-28	34	42	5.19*
Middle frontal gyrus, R	30	12	58	5.83**
	40	34	28	9.63***
Inferior frontal gyrus, L	-40	26	30	5.88***
Middle cingulate cortex, R	8	32	30	5.49**
Middle orbital gyrus, R	12	40	-6	6.00***
	30	48	-12	6.18***
<b>Valence by SME interaction (positive)</b>				
Hippocampus, R	16	-20	-12	4.25 <sup>++</sup>
Fusiform gyrus, L	-22	-36	-18	3.54 <sup>+</sup>

The peak x, y, z coordinates are given in MNI152 standard space coordinates. L and R denote left and right. SME: subsequent memory effect. \*:  $p < 0.05$  whole brain corrected, \*\*:  $p < 0.01$  whole brain corrected, \*\*\*:  $p < 0.001$  whole brain corrected, <sup>+</sup>:  $p < 0.05$  small volume corrected, <sup>++</sup>:  $p < 0.01$  small volume corrected