

Supplemental Table 1

Reward-related Brain Function during a Monetary Reward Paradigm for Each Developmental Group, by Task Condition

Region	Hemi- sphere	Coordinates			Cluster Size	<i>t</i>	Region	Hemi- sphere	Coordinates			Cluster Size	<i>t</i>	Region	Hemi- sphere	Coordinates			Cluster Size	<i>t</i>
		x	y	z					x	y	z					x	y	z		
Reward Anticipation																				
Pre/Early Adolescents						Mid/Late Adolescents						Adults								
Striatum																				
Caudate	L,R	6	12	12	769	6.81	Caudate	R	4	14	5	592	6.71	Caudate	L,R	-14	21	1	1424	6.29
Caudate	R	22	-34	16	179	5.21														
Medial Prefrontal Cortex																				
														mPFC	L,R	10	43	48	1441	5.98
Lateral Prefrontal Cortex																				
DLPFC	R	55	26	19	571	5.54	DLPFC; mPFC; VLPFC	L,R	-55	18	19	8254	8.51	Superior Frontal Gyrus	R	42	20	47	471	6.88
Middle Frontal Gyrus; DLPFC	L	-36	7	55	535	5.14								Middle Frontal Gyrus	L	-46	46	-6	106	5.40
Inferior Frontal Gyrus	L	-48	27	-10	163	4.52								DLPFC	R	26	56	27	101	5.15
Middle Frontal Gyrus	L	-46	45	5	44	3.78								VLPFC	R	48	48	-6	17	4.14
														DLPFC	L	-55	19	1	10	4.14

Orbitofrontal Cortex																				
Orbitofrontal Cortex	R	34	40	-14	34	4.18														
Temporal Lobe																				
Middle Temporal Gyrus	L	-59	-35	2	552	5.07	Middle Temporal Gyrus	L	-55	-37	2	485	5.44	Fusiform Gyrus	R	28	-74	-10	455	
Amygdala	R	32	-7	-20	47	4.50	Parahippocampal Gyrus	R	12	-5	-17	126	4.32	Hippocampus	R	30	-43	4	86	
Inferior Temporal Gyrus	L	51	-70	0	53	4.31	Parahippocampal Gyrus	R	20	-20	-11	141	3.80	Hippocampus	L	-30	-39	-3	99	
							Parahippocampal Gyrus	L	-16	-5	-18	17	3.50	Fusiform Gyrus	L	-44	-55	-16	405	
														Parahippocampal Gyrus	R	14	-3	-15	15	4.46
														Superior Temporal Gyrus	R	44	17	-16	74	4.11
Parietal Lobe																				
Superior Parietal Lobule	R	30	-73	48	63	4.63	Superior Parietal Lobule; Inferior Parietal Lobule; Superior Temporal Gyrus; Precuneus; Cuneus	L	-36	-63	51	1370	6.94	Precuneus	R	4	-72	42	320	6.32

Reward Outcome																				
Striatum																				
Caudate	L,R	-8	-1	17	4194	6.96	Caudate/Culmen (Cerebellum)	R	2	-39	-3	6008	7.07	Caudate	L,R	16	-7	24	1094	7.09
Medial Prefrontal Cortex																				
Anterior Cingulate		0	35	-3	26	4.00	Anterior Cingulate	R	4	46	-4	91	3.61	mPFC	L,R	0	60	25	461	6.92
Lateral Prefrontal Cortex																				
VLDFC; DLPFC; Superior Temporal Gyrus	R	48	23	-10	614	6.90	Middle Frontal Gyrus; mPFC; DLPFC	L	-51	10	38	1545	6.55	VLDFC	R	55	16	-1	59	5.81
Inferior Frontal Gyrus	L	-51	17	-3	402	6.36	DLPFC	R	51	21	34	2273	6.19	Superior Frontal Gyrus	R	32	28	48	202	5.42
Inferior Frontal Gyrus	L	-38	7	55	62	5.76	Inferior Frontal Gyrus	L	-48	41	3	95	3.64	Middle Frontal Gyrus	L	-32	7	57	63	4.80
DLPFC	R	48	32	21	236	3.82								DLPFC	L	-57	16	1	15	4.21
Middle Frontal Gyrus	R	50	14	38	34	3.76								DLPFC	R	24	65	12	78	4.04
														DLPFC	L	-30	61	8	24	3.95
Temporal Lobe																				
Middle Temporal Gyrus	L	-63	-50	4	796	5.40	Fusiform Gyrus	R	50	-49	-14	483	5.97	Superior Temporal Gyrus	L	-40	9	-16	212	6.16
Middle Temporal Gyrus	R	61	-39	-1	463	4.91	Superior Temporal Gyrus; Inferior Frontal	R	38	11	-17	803	5.96	Middle Temporal Gyrus	L	-42	-2	-8	91	5.48

							Gyrus													
Superior Temporal Gyrus	R	59	-53	19	21	4.16	Inferioer Temporal Gyrus	L	-51	-57	-11	126	5.08	Hippocampus	R	30	-45	2	79	4.34
Parahippocampal Gyrus	R	24	-20	-7	59	3.49	Parahippocampal Gyrus	R	12	-5	-17	31	4.31	Fusiform Gyrus	L	-48	-45	-13	118	4.24
							Middle Temporal Gyrus	L	-63	-41	4	129	3.69	Middle Temporal Gyrus	R	55	-51	-11	65	4.23
														Superior Temporal Gyrus	R	46	13	-14	84	4.07
Parietal Lobe																				
Inferior Parietal Lobule	R	50	-40	55	23	3.88	Inferior Parietal Lobule; Superior Parietal Lobule	R	47	-44	54	743	5.60	Precuneus	R	4	-72	42	153	5.13
							Superior Parietal Lobe	L	-32	-63	53	579	4.75	Inferior Parietal Lobule	L	-55	-36	48	246	5.02
Occipital Lobe																				
Lingual Gyrus	L	-16	-64	-7	20	4.22														
Other																				
							Pons	L	-2	-15	-21	22	5.16	Culmen (Cerebellum)	R	6	-46	4	561	4.89

Note: Results are from whole-brain analyses with $p < .001$, minimum extent of 10 voxels, and correction within functionally defined clusters using false discovery rate. For large clusters including multiple regions, all regions are listed, with the region containing the maximum voxel listed first.

Adolescent groups were determined by physical development, with Tanner breast/genital score of 1 or 2 for the pre/early pubertal group and 3, 4, or

5 for the mid/late pubertal group. $df=25$ for pre/early, 50 for mid/late, 18 for adult. All $p < .001$. DLPFC: dorsolateral prefrontal cortex; mPFC: medial prefrontal cortex; VLPFC: ventrolateral prefrontal cortex.

Supplemental Table 2

Whole-Brain Results for Response to Monetary Reward in Entire Sample of Adolescents and Adults, by Task Condition

Region	Hemisphere	Talairach coordinates of maximum voxel in cluster			Cluster size	<i>t</i>	<i>p</i> <
		x	y	z			
Reward Anticipation							
Middle Occipital Gyrus, BA18, 19; Cuneus, BA 17, 18; Lingual Gyrus, BA17, 18	L,R	26	-91	16	8053	10.56	0.001
Middle Frontal Gyrus, BA6; DLPFC, BA46, 45, 47; mPFC, BA8, 32	L,R	-40	7	53	6475	9.20	0.001
DLPFC, BA 45; Middle Temporal Gyrus, BA 21, 22	L	-57	37	2	757	6.95	0.001
Precuneus, BA7; Superior Parietal Lobule, BA7; Inferior Parietal Lobule, BA40	L,R	4	-70	42	1456	6.72	0.001
Middle Temporal Gyrus, BA 21, 22	R	61	-39	-1	424	6.05	0.001
Caudate	L	-20	-34	16	350	5.71	0.001

Supramarginal Gyrus, BA40	R	53	-52	32	198	4.54	0.001
Caudate	R	14	-5	17	62	3.92	0.001
Midbrain, Mammillary Body		0	-15	-19	15	3.79	0.001
Medial Frontal Gyrus, BA11	R	2	50	-16	40	3.75	0.001
Parahippocampal Gyrus, BA34	L	-16	-5	-18	14	3.60	0.001
Hippocampus	L	-32	-9	-20	12	3.49	0.001
Middle Frontal Gyrus, BA11	R	22	28	-15	11	3.35	0.005
Cingulate Gyrus, BA23	R	2	-33	29	72	3.31	0.005
Superior Temporal Gyrus, BA22	L	-46	-4	-7	10	3.06	0.005
Reward Outcome							
Thalamus/Caudate	R,L	4	0	9	6839	8.93	0.001
Inferior Frontal Gyrus, BA47; DLPFC, BA45, 47; Superior Temporal Gyrus, BA38	R	55	19	-1	2239	7.26	0.001
Precentral Gyrus, BA44; DLPFC: BA 9, 44, 46, 47; Middle Frontal Gyrus, BA6	L	-46	13	11	1643	7.02	0.001
Middle Temporal Gyrus. BA 37, 21, 22	R	60	-49	-6	516	6.53	0.001
Inferior Parietal Lobule, BA40	R	50	-40	54	307	6.45	0.001
Middle Occipital Gyrus, BA37	L	-52	-64	-7	508	5.74	0.001
Superior Parietal Lobule, BA7	L	-30	-63	53	427	4.98	0.001
Cingulate Gyrus, BA31	R	2	-36	26	144	4.60	0.001

Inferior Temporal Gyrus, BA20	R	50	-51	-13	11	4.28	0.001
Amygdala	R	34	-7	-20	20	3.88	0.001
Superior Temporal Gyrus, BA39	L	-54	-60	29	14	3.25	0.005
mPFC, BA32		0	43	5	114	3.21	0.005
Mammillary Body		0	-14	-14	10	3.15	0.005

Note: Analyses were conducted with a false discovery rate correction at $p < .05$ and extent of 10 voxels. BA: Brodmann Area; DLPFC: dorsolateral prefrontal cortex; mPFC: medial prefrontal cortex.