

Table S1

Cluster maxima and local peaks identified in supplemental contrasts for neurotypical adolescents

Anatomical Region	Hem	x	y	z	Z	k
<i>IMI > OBS</i>						
Inferior parietal lobule	L	-46	-32	40	10.54	47753
Supplementary motor cortex	--	-8	-2	54	9.61	--
Central opercular cortex	L	-44	-6	8	9.61	--
Cerebellum VI	R	28	-50	-34	9.52	--
<i>OBS > EXE</i>						
Inferior lateral occipital cortex	L	-48	-80	2	13.94	18319
Posterior STS	L	-50	-68	0	12.84	--
Sup. lateral occipital cortex	R	28	-84	32	11.96	--
Paracingulate gyrus	--	-8	42	-8	5.47	6888
Ventromedial prefrontal cortex	--	8	40	-20	5.05	--
Frontal pole	--	-6	56	-8	4.97	--
Postcentral gyrus	R	34	-30	56	5.81	999
Precentral gyrus	R	30	-26	64	5.66	--

Table S2

Cluster maxima and local peaks identified in supplemental contrasts for youth with ASD

Anatomical Region	Hem	x	y	z	Z	k
<i>IMI > OBS</i>						
Inferior parietal lobule	L	-46	-32	40	7.05	6176
Precentral gyrus	L	-32	-10	62	6.86	--
Precentral gyrus	R	40	-2	36	5.62	--
Superior parietal lobule	L	-36	-50	68	5.47	--
Cerebellum VI	R	30	-54	-26	6.50	2484
Posterior STS	R	46	-62	2	5.21	--
Cerebellum V	R	20	-46	-28	4.98	--
Inferior lateral occipital cortex	L	-30	-90	2	5.45	1868
Occipital pole	L	-22	-102	-6	4.82	--
Posterior STS	L	-44	-72	0	4.63	--
Occipital fusiform gyrus	L	-38	-70	-10	4.16	--
Central opercular cortex	L	-50	2	2	4.05	1493
Thalamus	L	-18	-24	2	3.99	--
Putamen	L	-28	-6	2	3.89	--
Inferior parietal lobule	R	46	-28	36	4.22	791
Superior parietal lobule	R	40	-44	54	4.15	--
Anterior intraparietal sulcus	R	40	-42	42	3.80	--
<i>OBS > EXE</i>						
Superior lateral occipital cortex	R	20	-78	44	9.54	30270
Posterior STS	R	42	-64	-2	8.66	--
Occipital pole	L	-12	-100	8	8.40	--
Cuneal cortex	L	-18	-78	34	8.35	--
Posterior STS	L	-38	-80	6	7.92	--
Paracingulate gyrus	--	-6	50	0	3.70	681
Ventromedial prefrontal cortex	--	-4	32	-10	3.55	--
Frontal pole	L	-22	54	28	5.15	571
Postcentral gyrus	L	-44	-18	34	5.05	540

Table S3*Significant ASD versus comparison group differences in supplemental contrasts.*

Anatomical Region	Hem	x	y	z	Z	k
<i>IMI > OBS_{TD > ASD}</i>						
Lingual gyrus	R	12	-68	-14	4.39	6840
Precuneus	R	22	-60	28	4.32	--
Cerebellar lobule VIIb	R	22	-72	-48	4.32	--
Cerebellar lobule VI	L	-12	-64	-24	4.28	--
Cerebellar vermis VIIa	--	-6	-64	-34	4.47	--
Cerebellar vermis VI	--	4	-68	-12	4.25	--
Precentral gyrus	L	-48	-10	48	4.92	2992
Posterior STS	L	-66	-16	6	4.72	--
Inf. lateral occipital cortex	L	-56	-68	-2	4.30	--
Ant. supramarginal gyrus	L	-46	-38	36	4.02	--
Insula	R	42	4	-8	5.23	2654
Central operculum	R	46	0	6	4.16	--
Precentral gyrus	R	52	-10	50	4.01	--
Precuneus	--	6	-62	52	4.62	1653
Superior parietal lobule	L	-18	-56	66	4.14	--
Sup. lateral occipital cortex	R	16	-58	60	4.08	--
Parietal operculum	R	54	-32	32	4.30	971
Ant. supramarginal gyrus	R	66	-20	20	3.73	--
Central opercular cortex	R	68	-16	36	3.59	--
Insula	L	-38	-2	12	4.09	876
Temporal pole	L	-58	10	-16	3.82	--
Inferior frontal gyrus, pars op.	L	-52	14	12	3.82	--
Anterior cingulate cortex	--	6	-4	38	4.16	582
Lateral orbitofrontal cortex	L	-36	30	-4	4.19	537
Putamen	L	-22	16	-2	3.40	--
Amygdala	L	-14	-6	-14	3.25	--
<i>OBS > EXE_{ASD > TD}</i>						
Cerebellum VI	L	-12	-60	-28	4.25	1402