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Inferior Frontal Gyrus 52 14 24 5 40
Middle Frontal Gyrus 44 12 36 5 37
Precentral Gyrus 44 8 34 5 27
Inferior Frontal Gyrus 54 20 22 4 97
Inferior Frontal Gyrus 52 24 20 4 64
Left Temporal Fusiform Cortex -36 -4 -34 5 45 542
Left Temporal Pole -32 18 -30 3 97
Left Amygdala $-28 -4 -24 -3.80$
Left Optic Radiation $-34 -10 -20 3.77$
Left Amygdala -20 -4 -16 3.52
Left Amygdala $-16 -8 -14 -348$
ASD adults & children (sample A)
Right Temporal Occipital Fusiform Cortex 42 -40 -18 4.41 2764
Right Middle Temporal Gyrus 60 -54 4 4.33
Right Supramarginal Gyrus 54 -38 20 3 93
Left VI -36 -46 -26 4 46 1967
Left Occipital Pole $-22 - 104 - 4 + 4.23$
Left Temporal Occipital Fusiform Cortex -38 -52 -20 4.08
Left Middle Temporal Gyrus -52 -54 8 4.06
Right Amygdala 12 -6 -16 4.07 418

Table SI. Cluster peaks and local maxima of regions sensitive to the BIO > SCRAM contrast in whole-brain analysis, for the full sample (typically developing (TD) adults and children and adults and children with autism spectrum disorder (ASD); sample A) and the matched subsample of TD children and children with ASD (sample C).

Table SI (cont'd).

Site	х	у	Z	Ζ	k
ASD adults & children (sample A) (cont'd)					
Right Temporal Pole	26	6	-26	3.13	
ASD children (sample C)					
Right Supramarginal Gyrus	56	-42	20	4.62	1127
Right Angular Gyrus	64	-50	20	4.16	
Right Middle Temporal Gyrus	54	-54	10	4.15	
Right Supramarginal Gyrus/Inferior parietal lobule	66	-34	34	4.15	
Right Middle Temporal Gyrus	52	-50	2	4.01	
Right Thalamus	12	-16	10	3.83	805
Right Caudate	14	-8	20	3.75	
Right Caudate	10	6	10	3.71	
Right Corticospinal tract	24	-12	8	3.34	
Right Temporal Occipital Fusiform Cortex	42	-40	-20	4.64	653
Right Temporal Fusiform Cortex	38	-36	-20	4.40	
Right Temporal Fusiform Cortex	42	-28	-24	3.94	
Left VI	-36	-56	-28	4.10	537
Left Temporal Occipital Fusiform Cortex	-36	-46	-24	3.70	
Left VI	-38	-52	-28	3.54	
Left Temporal Occipital Fusiform Cortex	-38	-50	-18	3.48	
Left Crus I	-46	-64	-24	3.32	
Left VI	-36	-44	-30	3.51	

Note. Coordinates are reported in MNI space. Z: Z-statistic. k: Cluster voxel extent.

Table SII. Cluster peaks and local maxima of cerebellar regions responsive to the BIO > SCRAM × LpSTS interaction in PPI analysis, controlling for age, within the full sample (sample A).

Site	Prob.	Х	у	Z	Ζ	k
BIO > SCRAM × LpSTS						
TD						
Left Crus II	91%	-16	-84	-39	3.64	114
Left Crus I	93%	-26	-86	-35	2.63	
Left VIIIa	79%	-30	-46	-55	3.59	64
Left VIIIb	73%	-26	-38	-51	3.24	
Right VIIIa	41%	30	-44	-55	5.88	19
Right I-IV	28%	28	-34	-25	3.24	19
Right V	24%	32	-38	-25	2.67	
Right X	93%	24	-36	-43	2.92	18
ASD						
Left Crus II	100%	-28	-80	-47	3.97	250
Left Crus I	78%	-34	-80	-39	3.49	
Left VIIb	36%	-2	-76	-43	3.34	
Left Crus II	100%	-14	-90	-35	3.08	
Right Crus II	67%	6	-76	-37	3.05	

Figure S1. Regions displaying significant response to the BIO > SCRAM contrast in the whole-brain analysis for each of the TD (typically developing) and ASD (autism spectrum disorder) groups (both full samples and matched child samples), presented as an axial mosaic in MNI space, with every second slice displayed. Colormap ranges are group-specific; for each group, the value mapped to the top of the color range is close to the group-specific maximum z-value in order to better reveal within-group peak

TD adults & children (Sample A) z = -72 z = -40 z = -8 z = -8 z = -8 z = 24 z = 24 z = 56 Right Left Left z = 2.3 z = 2.3z =

ASD adults & children (Sample A)



TD children (Sample C)





Figure S2. Details of PPI seed creation. **A)** Every sagittal and axial slice of the right posterior superior temporal sulcus (RpSTS) seed is displayed on the MNI standard space template, with coordinates in mm. The left pSTS seed (not shown) is the mirror image of this mask. **B)** Example of seed creation workflow illustrated on a representative axial slice (z = 6). Thresholded *z*-statistic images representing brain regions significantly responsive to the BIO > SCRAM (whole-brain) contrast, within the full TD and ASD samples, as well as the matched child samples, were binarized, and a mask was created in the region of overlap within the posterior continuing branch of the STS. **C)** Manual adjustments to the merged, binarized overlap mask included minor hole-filling and removal of "stray" voxels to create a coherent seed region.

Α.











Voxel erasure



Seed within right pSTS overlap *Right Left*

Figure S3. Flattened *z*-statistic displays of regions displaying a significant psychophysiological interaction (PPI) between the BIO > SCRAM contrast and a seed region in left posterior superior temporal sulcus (LpSTS) within A) the full sample of TD adults and children and B) the full sample of adults and children with ASD, with outlines indicating lobular structure overlaid in black. For comparison, results obtained using the right pSTS seed are inset.

