

Supplementary Table S1. Demographic and clinical information for FXS and control participants.

(corresponds to data in Fig. 6)

	FXS (n = 8)	Control (n = 8)
Age in years <i>Range</i>	30.1 (10.3) 15-40	29.2 (9.6) 15-40
Abbreviated IQ <i>Range</i>	52.3 (5.8) 47-61	
SCQ <i>Range</i>	12.8 (4.8) 7-18	
Sensory Profile: Seeking/Seeker <i>Range</i>	25.1 (12.3) 3-41	
Sensory Profile: Avoiding/Avoider <i>Range</i>	44.8 (20.0) 20-71	
Sensory Profile: Sensitivity/Sensor <i>Range</i>	40.4 (20.9) 11-68	
Sensory Profile: Registration/Bystander <i>Range</i>	38.3 (21.7) 9-74	
Sensory Profile: Auditory Processing <i>Range</i>	19.7 (9.2) 6-36	
Sensory Profile: Visual Processing <i>Range</i>	11.4 (6.9) 1-20	
Sensory Profile: Touch Processing <i>Range</i>	16.1 (11.8) 2-35	
Sensory Profile: Movement Processing <i>Range</i>	8.8 (3.2) 2-13	
Sensory Profile: Body Position Processing <i>Range</i>	15.0 (12.0) 1-35	
Sensory Profile: Oral Sensory Processing <i>Range</i>	12.1 (9.8) 0-30	

Mean (standard deviation)
IQ = intelligence quotient

Supplementary Table S2. Medication type by FXS participant.

(corresponds to data in Fig. 6)

Participant/ Drug class	AA	AD	SH	ST
FXS 1			x	
FXS 2				
FXS 3		x		
FXS 4	x	x		
FXS 5	x	x		x
FXS 6	x	x	x	
FXS 7		x		x
FXS 8				x

'x' indicates the participant was taking medication within 48 hours of testing, empty cell indicates no medication

AA: atypical antipsychotic; AD: antidepressant (all SSRI, with exception of FXS 6 who was taking tricyclic); SH: Sedative-Hypnotic ST: stimulant