Bölte et al. Training-induced plasticity of the social brain in autism spectrum disorder. *Br J Psychiatry* doi: 10.1192/bjp.bp.113.143784

Table DS1: Behavioral data (inside scanner) (a) TD and ASD pre-training. **(b)** Untrained and trained ASD for pre and post training. TD = typically developing control group; ASD= autism spectrum disorder; SD = standard deviation

(a) TD and ASD pre-training					
		Performance	Reaction Time in msec		
Group	Condition	Mean [SD]	Mean [SD]		
	Explicit	28.76 [4.12]	1235.74 [596]		
TD	Implicit	29.72 [1.94]	986.35 [593.35		
	Neutral	31.8 [1.02]	869.88 [662.6]		
	Object	31.8 [2.71]	1134.26 [541.4]		
	Explicit	25.69 [2.33]	1360.95 [459.8]		
ASD	Implicit	28.97 [1.14]	1212.65 [408.84]		
	Neutral	31.48 [0.65]	1093.65 [444.19]		
	Object	30.97 [0.44]	1383.27 [431.82]		
(b) Untrained	post-training 1199.1 [596]				
ASD untrained (pre training)	Implicit	28.73 [1.94]	1125.6 [593.35]		
	Neutral	31.2 [1.02]	1028.22 [662.6]		
	Object	30.46 [2.71]	1428.14 [541.4]		
	Explicit	25.73 [2.33]	1311.2 [459.8]		
ASD untrained (post training)	Implicit	28.06 [1.14]	1133.31 [408.84]		
	Neutral	31.06 [0.65]	1030.84 [444.19]		
	Object	30.73 [0.44]	1351.9 [431.82]		
	Explicit	24.93 [4.2]	1534.4 [547.92]		
ASD trained (pre training)	Implicit	29.21 [1.63]	1306.02 [502.18]		
	Neutral	31.79 [0.43]	1163.8 [582.69]		
	Object	31.5 [1.16]	1335.2 [495.53]		
	Explicit	25.5 [4.11]	1240.32 [302.99]		
ASD trained (post training)	Implicit	29.21 [1.05]	1014.02 [247.51]		
	Neutral	31.86 [0.36]	862.67 [180.28]		
	Object	31.36 [1.15]	1110.85 [264.59]		

Table DS2: Correlation analysis for (a) ASD pre-training, and (b) trained ASD post-training

(a) ASD pre-training					
Correlation (two-tailed)	r-value	p-value			
Right amygdala and FEFA test	0.56	0.001			
Right amygdala and ERT	0.25	0.17			
Right amygdala and ADOS Communication score	0.13	0.47			
Right amygdala and ADOS Social interaction score	0.20	0.27			
(b) Trained ASD post-training					
Medial prefrontal cortex and ADOS Communication score	-0.49	0.053			
Medial prefrontal cortex and ADOS Social interaction score	-0.095	0.72			
Right amygdala and ADOS Communication score	-0.25	0.35			
Right amygdala and ADOS Social interaction score	-0.27	0.31			
Left fusiform gyrus and ADOS Communication score	0.24	0.37			
Left fusiform gyrus and ADOS Social interaction score	0.34	0.19			

Note. ASD= autism spectrum disorder; FEFA= Frankfurt Test and Training for Facial Affect Recognition; ERT= Emotion Recognition Test; ADOS= Autism Diagnostic Observation Schedule.

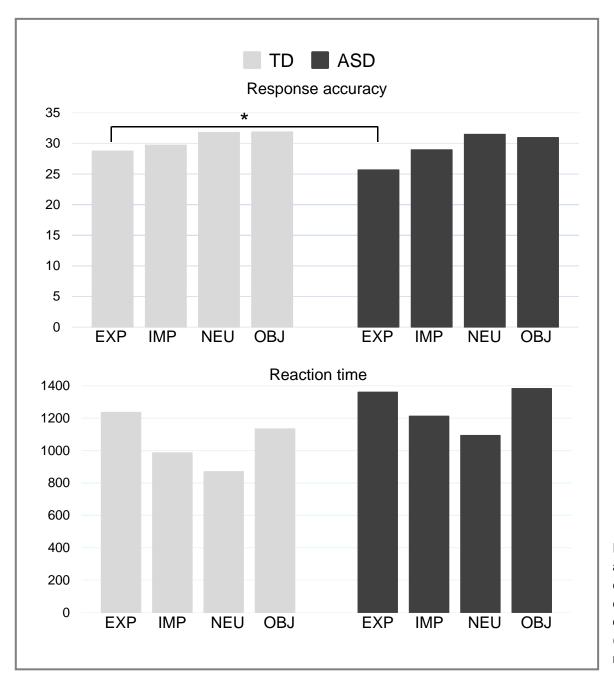


Fig. DS1. Behavioural results (inside scanner) for the TD and the ASD groups. Mean accuracies (maximum of correct answers, 32) and mean reaction times (in ms) for correct answers in each category. TD = typically developing (light grey); ASD, autism spectrum disorder (dark grey); EXP, explicit FAR; IMP, implicit FAR; NEU, neutral FAR; OBJ, object recognition; * p<0.05.

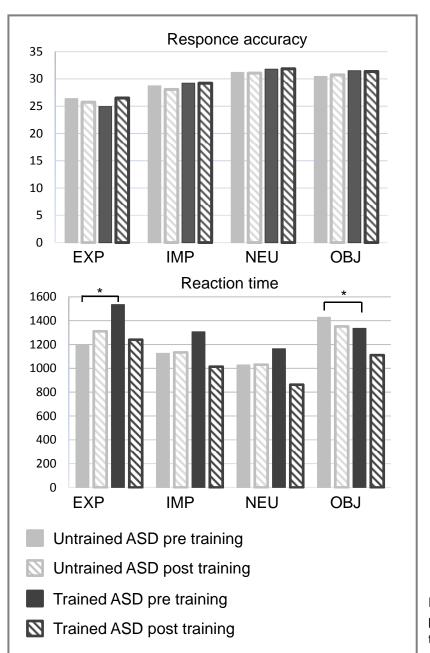


Fig. DS2. Behavioural results (inside scanner) for the untrained and the trained ASD groups for pre- and post-training. Mean accuracies (maximum of correct answers, 32) and mean reaction times (in ms) for correct answers in each category. EXP, explicit FAR; IMP, implicit FAR; NEU, neutral FAR; OBJ, object recognition; ASD, autism spectrum disorder;* p<0.05