

	Schizophrenia (SCZ) (n = 50)	Bipolar disorder (BPD) (n = 50)	Control participants (n = 50)
Age (years)	39.5 (8.4)	40.5 (7.9)	38.2 (8.5)
Sex (male/female)	32/18	32/18	32/18
Education (years)	11.8 (5.7)	11.7 (6.1)	12.0 (6.3)
IQ	98.4 (9.5)	100.5 (9.0)	101.7 (10.4)
Visual acuity (LogMAR)	0.17 (0.09)	0.19 (0.08)	0.17 (0.04)
Duration of Illness (years)	14.7 (8.3)	14.9 (9.1)	-
WHODAS 2.0	21.3 (7.9)	20.4 (6.8)	-
PANSS – P	15.7 (5.2)	16.8 (5.8)	-
PANSS- N*	18.1 (4.8)	15.4 (5.1)	-
PANSS - G	40.2 (10.1)	39.2 (12.1)	-
HAM-D	10.3 (5.8)	10.9 (7.5)	-
YMRS	4.5 (2.1)	4.0 (2.9)	-
Chlorpromazine (CPZE)-equivalent antipsychotic dose (mg/day)	326.3 (179.4)	328.7 (215.5)	-

Table 1. Clinical and demographical characteristics of the participants. Data are mean (standard deviation) except the sex ratio. PANSS - Positive and Negative Syndrome Scale; HAM-D - Hamilton Rating Scale for Depression; YMRS - Young Mania Rating Scale; WHODAS 2.0 - WHO Disability Assessment Schedule 2.0; * $p < 0.05$ (two-tailed t test).

	SCZ – Control				SCZ - BPD			
	Sensitivity	Specificity	AUC	Cut-off	Sensitivity	Specificity	AUC	Cut-off
Scene test	0.74	0.72	0.78	2	0.58	0.86	0.77	3
Noise test	0.68	0.80	0.78	3	0.50	0.92	0.74	6
Pareidolia score	0.62	0.94	0.80	7	0.62	0.88	0.77	7 8

Table 2. Results from the ROC analysis. Receiver operating characteristic (ROC) analysis using an optimal cu-off score set (Youden-method). SCZ – schizophrenia, BPD – bipolar disorder, AUC – area under the curve

	Wilk's lambda	F	df	p	Squared Mahalanobis distances	Correctly classified cases
SCZ - control						
Scene	0.75	32.37	1, 98	< 0.001	1.29	72%
Noise	0.74	33.94	1, 98	< 0.001	1.36	73%
Pareidolia	0.72	37.28	1, 98	< 0.001	1.49	76%
SCZ - BPD						
Scene	0.76	31.55	1, 98	< 0.001	1.26	72%
Noise	0.79	25.68	1, 98	< 0.001	1.03	68%
Pareidolia	0.76	31.80	1, 98	< 0.001	1.27	73%
BPD - control						

Scene	0.99	0.14	1, 98	0.71	0.01	54%
Noise	0.98	1.26	1, 98	0.26	0.05	56%
Pareidolia	0.99	0.86	1, 98	0.36	0.03	57%

Table 3. Discriminant function analysis

	SIAPA visual			SIAPA auditory			PANNS - P			PANNS - N			PANNS - G			YMRS		
	CO	SZ	BP	CO	SZ	BP	CO	SZ	BP	CO	SZ	BP	CO	SZ	BP	CO	SZ	BP
Scene	0.60*	0.66*	0.39	0.14	-	0.10	-	0.24	0.07	-	0.10	0.14	-	0.00	0.21	-	0.01	0.07
Noise	0.38	0.62*	0.45	0.00	-	0.09	-	0.23	-	-	-	-	-	0.07	-	-	0.01	0.04
Pareidolia	0.53*	0.65*	0.51*	0.10	-	0.13	-	0.24	-	-	0.01	-	-	0.05	0.07	-	0.00	0.06

Table 4. Correlations between the pareidolia scores and the clinical measures. * $p < 0.001$ (Bonferroni-corrected threshold of significance); CO – controls; SZ – schizophrenia; BP – bipolar disorder; SIAPA - Structured Interview for Assessing Perceptual Anomalies; PANSS - Positive and Negative Syndrome Scale; P – positive symptoms; N – negative symptoms; G – general symptoms; YMRS - Young Mania Rating Scale.