

Supplemental Information

Table S1. Summary of demographics for control and schizophrenia groups

	Control group (n = 37)	Schizophrenia group (n = 37)
Age (years)	51.1 (18-78)	51.3 (27-75)
Gender	7F, 30M	13F, 24M
Hemisphere	23R, 14L	17R, 20L
pH	6.66 +/- 0.29	6.61 +/- 0.30
PMI (hrs)	24.8 +/- 10.97	28.8 +/- 14.07
RIN	7.3 +/- 0.57	7.3 +/- 0.58
Manner of death	natural = 37	natural = 29, suicide = 8
Subclass	-	paranoid = 16; undifferentiated = 7; disorganized = 5; residual = 2; schizoaffective, depressive type = 4; schizoaffective, bipolar type = 3
Age of onset (years)	-	23.7 ± 0.10
Duration of illness (years)	-	27.6 ± 2.3
Daily chlorpromazine mean (mg)	-	692 ± 502
Last recorded chlorpromazine dose (mg)	-	542 ± 374
Lifetime chlorpromazine dose (g)	-	7908 ± 7954
Daily alcohol consumption	yes = 19, no = 7, unknown = 11	yes = 21, no = 13, unknown = 3

F, female; L, left; M, male; PMI, postmortem interval; R, right; RIN, RNA integrity number.

This cohort is described in detail by Weickert *et al.* (1).

Table S2. Correlation of independent variables and gene expression

	Gene	pH		RIN		age		PMI	
		r	p	r	p	r	p	r	p
Whole cohort	CPLX1	0.08	0.53	0.00	0.98	-0.08	0.50	0.11	0.35
	VGAT	0.57	0.00	0.32	0.01	-0.37	0.00	0.07	0.58
	CPLX2	-0.17	0.17	-0.13	0.28	-0.11	0.36	0.15	0.23
	VGluT1	0.57	0.00	0.50	0.00	-0.54	0.00	0.28	0.02
	GAP43	0.02	0.87	-0.02	0.89	-0.08	0.51	0.02	0.84
	NAV1	-0.24	0.05	0.03	0.82	-0.15	0.22	-0.23	0.06
	NAV2	-0.47	0.00	-0.54	0.00	0.26	0.03	-0.21	0.08
	VAMP1	-0.09	0.48	0.00	0.99	0.35	0.00	-0.10	0.40
	dysbindin	-0.26	0.03	-0.07	0.57	0.25	0.04	-0.10	0.41
Controls	CPLX1	0.07	0.68	-0.04	0.80	-0.18	0.29	-0.01	0.97
	VGAT	0.53	0.00	0.03	0.86	-0.38	0.03	0.23	0.20
	CPLX2	-0.43	0.01	-0.32	0.06	-0.13	0.44	-0.03	0.87
	VGluT1	0.61	0.00	0.31	0.07	-0.54	0.00	0.27	0.11
	GAP43	-0.16	0.35	-0.16	0.35	-0.18	0.31	-0.06	0.75
	NAV1	-0.21	0.21	0.11	0.52	-0.14	0.43	-0.22	0.19
	NAV2	-0.50	0.00	-0.50	0.00	0.10	0.55	-0.35	0.04
	VAMP1	-0.32	0.05	-0.08	0.64	0.44	0.01	-0.45	0.01
	dysbindin	-0.50	0.00	-0.27	0.11	0.41	0.01	-0.19	0.26
Schizophrenia	CPLX1	0.08	0.66	0.05	0.78	0.03	0.86	0.28	0.10
	VGAT	0.62	0.00	0.54	0.00	-0.38	0.03	0.00	0.99
	CPLX2	0.07	0.68	0.05	0.78	-0.09	0.63	0.35	0.05
	VGluT1	0.54	0.00	0.69	0.00	-0.54	0.00	0.29	0.08
	GAP43	0.17	0.34	0.15	0.39	0.00	0.98	0.21	0.25
	NAV1	-0.33	0.05	-0.09	0.60	-0.15	0.38	-0.20	0.25
	NAV2	-0.44	0.01	-0.59	0.00	0.44	0.01	-0.11	0.54
	VAMP1	0.12	0.49	0.08	0.66	0.27	0.11	0.19	0.28
	dysbindin	-0.11	0.53	0.05	0.78	0.15	0.39	-0.04	0.83

Bolded values indicate significant correlations ($p \leq 0.05$).

PMI, postmortem interval; RIN, RNA integrity number.

Table S3. Correlations between synaptic markers

Controls																		
	CPLX1		VGAT		CPLX2		VGLUT		GAP43		NAV1		NAV2		VAMP1		dysbindin	
	r	p	r	p	r	p	r	p	r	p	r	p	r	p	r	p	r	p
CPLX1	-	-	0.32	0.10	0.59	0.00	0.35	0.04	0.58	0.00	0.00	0.98	0.02	0.89	0.28	0.10	0.15	0.38
VGAT	0.32	0.07	-	-	-0.06	0.76	0.61	0.00	-0.01	0.95	-0.50	0.00	-0.30	0.10	0.09	0.61	-0.38	0.03
CPLX2	0.59	0.00	-0.06	0.76	-	-	-0.09	0.62	0.70	0.00	0.15	0.39	0.39	0.02	0.17	0.34	0.29	0.09
VGLUT	0.35	0.04	0.61	0.00	-0.09	0.62	-	-	0.24	0.17	-0.12	0.50	-0.45	0.01	-0.45	0.01	-0.37	0.03
GAP43	0.58	0.00	-0.01	0.95	0.70	0.00	0.24	0.17	-	-	0.22	0.21	0.30	0.08	-0.07	0.70	0.31	0.08
NAV1	0.00	0.98	-0.50	0.00	0.15	0.39	-0.12	0.50	0.22	0.21	-	-	0.23	0.19	0.03	0.87	0.28	0.11
NAV2	0.02	0.89	-0.30	0.10	0.39	0.02	-0.45	0.01	0.30	0.08	0.23	0.19	-	-	0.25	0.15	0.41	0.02
VAMP1	0.28	0.10	0.09	0.61	0.17	0.34	-0.45	0.01	-0.07	0.70	0.03	0.87	0.25	0.15	-	-	0.27	0.11
dysbindin	0.15	0.38	-0.38	0.03	0.29	0.09	-0.37	0.03	0.31	0.08	0.28	0.11	0.41	0.02	0.27	0.11	-	-
Schizophrenics																		
	CPLX1		VGAT		CPLX2		VGLUT		GAP43		NAV1		NAV2		VAMP1		dysbindin	
	r	p	r	p	r	p	r	p	r	p	r	p	r	p	r	p	r	p
CPLX1	-	-	0.13	0.47	0.76	0.00	0.24	0.16	0.71	0.00	0.31	0.08	0.15	0.41	0.67	0.00	0.58	0.00
VGAT	0.11	0.53	-	-	-0.02	0.90	0.74	0.00	0.01	0.94	-0.07	0.72	-0.21	0.25	-0.20	0.26	-0.22	0.21
CPLX2	0.76	0.00	-0.02	0.90	-	-	0.17	0.35	0.57	0.00	-0.09	0.61	-0.08	0.68	0.57	0.00	0.40	0.02
VGLUT	0.24	0.17	0.74	0.00	0.17	0.35	-	-	0.30	0.09	-0.11	0.55	-0.48	0.00	-0.02	0.91	-0.10	0.58
GAP43	0.71	0.00	0.01	0.94	0.57	0.00	0.30	0.09	-	-	0.29	0.11	0.07	0.70	0.53	0.00	0.60	0.00
NAV1	0.31	0.08	-0.07	0.72	-0.09	0.61	-0.11	0.55	0.29	0.11	-	-	0.21	0.26	0.00	0.98	0.50	0.00
NAV2	0.15	0.41	-0.21	0.25	-0.08	0.68	-0.48	0.00	0.07	0.70	0.21	0.26	-	-	0.02	0.89	0.28	0.11
VAMP1	0.70	0.00	-0.20	0.26	0.57	0.00	-0.02	0.91	0.53	0.00	0.00	0.98	0.02	0.89	-	-	0.55	0.00
dysbindin	0.58	0.00	-0.22	0.21	0.40	0.02	-0.10	0.58	0.60	0.00	0.50	0.00	0.28	0.11	0.55	0.00	-	-

Bolded values indicate significant correlations ($p \leq 0.05$).

Table S4. Correlation of synaptic mRNAs with clinical variables

Gene	Age of onset		Duration of illness (yrs)		Daily chlor mean		Last recorded chlor dose		Lifetime chlor	
	r	p	r	p	r	p	r	p	r	p
CPLX1	0.22	0.20	-0.06	0.73	0.01	0.97	-0.23	0.21	-0.12	0.51
VGAT	0.00	0.99	-0.39	0.02	-0.28	0.11	-0.24	0.19	-0.32	0.06
CPLX2	0.20	0.26	-0.17	0.32	0.12	0.50	-0.13	0.50	-0.03	0.88
VGlut1	-0.15	0.38	-0.49	0.00	-0.25	0.14	-0.24	0.18	-0.32	0.06
GAP43	-0.13	0.48	0.06	0.74	-0.09	0.60	-0.07	0.71	-0.12	0.50
NAV1	-0.13	0.46	-0.10	0.57	0.10	0.56	-0.19	0.31	0.01	0.96
NAV2	0.35	0.05	0.30	0.09	0.08	0.67	0.18	0.34	0.08	0.66
VAMP1	0.13	0.47	0.23	0.19	0.14	0.42	0.09	0.65	0.10	0.57
dysbindin	-0.15	0.40	0.22	0.20	0.27	0.12	0.13	0.47	0.22	0.21

Chlor, chlorpromazine.

Bolded values indicate significant correlations ($p \leq 0.05$).

1. Weickert CS, Sheedy D, Rothmond DA, Dedova I, Fung S, Garrick T, *et al.* (2010): Selection of reference gene expression in a schizophrenia brain cohort. *Aust N Z J Psychiatry* 44: 59-70.