

Supplementary material for Schwarz R, et al. 2015. A preliminary study on methylphenidate-regulated gene expression in lymphoblastoid cells of ADHD patients. The World Journal of Biological Psychiatry, 16:180–189.

Supplementary Table I. Microarray results, expressional changes upon methylphenidate treatment.

Probeset ID	Gene Symbol	log2 Fold Change	P-Value	FDR
202859_x_at	IL8	−1.578632105	1.12162E-06	0.05740506
203665_at	HMOX1	−1.33690178	2.63365E-06	0.05740506
202973_x_at	FAM13A	1.158273892	5.48608E-06	0.05740506
209007_s_at	C1orf63	1.233913141	5.51594E-06	0.05740506
217047_s_at	FAM13A	1.053433278	7.94917E-06	0.05740506
202770_s_at	CCNG2	1.029700114	8.63895E-06	0.05740506
213359_at	HNRNPD	0.989616469	1.04565E-05	0.05740506
44783_s_at	HEY1	0.983758711	1.17654E-05	0.05740506
202581_at	HSPA1B	0.974572189	1.30773E-05	0.05740506
227936_at	TMEM68	−0.930196035	1.5671E-05	0.05740506
204103_at	CCL4	−1.008735113	1.5984E-05	0.05740506
204621_s_at	NR4A2	0.890625725	1.73525E-05	0.05740506
204326_x_at	MT1X	−0.890414397	1.83266E-05	0.05740506
224558_s_at	MALAT1	0.909876742	1.88906E-05	0.05740506
235716_at	NA	0.891038526	2.07535E-05	0.05740506
218839_at	HEY1	0.854727099	2.09942E-05	0.05740506
202769_at	CCNG2	0.926177012	2.25082E-05	0.05740506
202499_s_at	SLC2A3	0.994414348	2.25979E-05	0.05740506
239413_at	CEP152	0.874034505	2.41516E-05	0.05740506
211559_s_at	CCNG2	0.822597721	2.53019E-05	0.05740506
206461_x_at	MT1H	−0.824360029	2.5478E-05	0.05740506
209006_s_at	C1orf63	0.819184133	2.57584E-05	0.05740506
1559249_at	ATXN1	−0.813001204	2.661E-05	0.05740506
227671_at	XIST	0.814485924	2.75673E-05	0.05740506
229434_at	NA	0.883965161	2.77411E-05	0.05740506
208581_x_at	MT1X	−0.799346151	2.96586E-05	0.05740506
203817_at	GUCY1B3	0.880385263	3.04512E-05	0.05740506
227613_at	ZNF331	0.842307947	3.09501E-05	0.05740506
222309_at	LOC100506935	−0.801894594	3.39702E-05	0.05740506
1554036_at	ZBTB24	−0.795293556	3.63073E-05	0.05740506
202498_s_at	SLC2A3	0.779985325	3.74083E-05	0.05740506
231863_at	ING3	−0.75732878	3.91356E-05	0.05740506
229574_at	TRA2A	0.779955907	4.06588E-05	0.05740506
212859_x_at	MT1E	−0.758422633	4.13441E-05	0.05740506
201565_s_at	ID2	−0.747886828	4.31749E-05	0.05740506
228528_at	MIR29B2	0.7428899	4.42975E-05	0.05740506
203380_x_at	SRSF5	−0.744345354	4.70084E-05	0.05740506
228617_at	XAF1	−0.779460725	4.94562E-05	0.05740506
201566_x_at	ID2	−0.736164274	4.97305E-05	0.05740506
214683_s_at	CLK1	0.740928879	4.98934E-05	0.05740506
1554878_a_at	ABCD3	−0.839671484	5.2379E-05	0.05740506
221203_s_at	YEATS2	0.795570098	5.29122E-05	0.05740506
228846_at	MXD1	0.700681609	5.42109E-05	0.05740506
200800_s_at	HSPA1B	0.818479316	5.43772E-05	0.05740506
205114_s_at	CCL3L1	−0.893356681	5.54536E-05	0.05740506
224454_at	ETNK1	−0.807939628	5.665E-05	0.05740506
230389_at	FNBP1	0.72554871	5.74391E-05	0.05740506
224588_at	XIST	0.688167823	5.86301E-05	0.05740506
211996_s_at	NPIPL3	0.709536827	5.93841E-05	0.05740506
227650_at	HSPA14	−0.780307322	5.95586E-05	0.05740506
238935_at	RPS27L	−0.70914471	5.99251E-05	0.05740506
219274_at	TSPAN12	0.919112665	6.19657E-05	0.05740506
202220_at	KIAA0907	0.765848458	6.20798E-05	0.05740506
239406_at	ZNF193	−0.683769855	6.31746E-05	0.05740506

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Supplementary Table I. (Continued)

Probeset ID	Gene Symbol	log2 Fold Change	P-Value	FDR
205660_at	OASL	-0.687439571	6.47773E-05	0.05740506
212185_x_at	MT2A	-0.670812102	6.60724E-05	0.05740506
220046_s_at	CCNL1	0.67837135	6.64324E-05	0.05740506
225318_at	NA	0.692897475	6.91722E-05	0.05740506
1555689_at	CD80	-0.672434005	6.94542E-05	0.05740506
225957_at	C5orf41	0.663079336	7.01145E-05	0.05740506
239946_at	NA	0.711058666	7.18246E-05	0.05740506
218764_at	PRKCH	0.772888907	7.55535E-05	0.05740506
242688_at	NA	0.658124552	7.62783E-05	0.05740506
230256_at	RUSC1-AS1	0.659409652	7.63913E-05	0.05740506
226150_at	PPAPDC1B	-0.670620689	7.70197E-05	0.05740506
211506_s_at	IL8	-0.726374228	7.87262E-05	0.05740506
228373_at	C16orf72	0.669905683	8.06255E-05	0.05740506
209583_s_at	CD200	0.752708001	8.12431E-05	0.05740506
200811_at	CIRBP	-0.748546803	8.17101E-05	0.05740506
1556361_s_at	ANKRD13C	-0.644347059	8.41793E-05	0.05740506
204243_at	RLF	0.682761418	8.43216E-05	0.05740506
226636_at	PLD1	0.644913118	8.6222E-05	0.05740506
222808_at	ALG13	-0.686395061	8.66502E-05	0.05740506
222088_s_at	SLC2A3	0.91364988	8.68692E-05	0.05740506
1555411_a_at	CCNL1	0.683919731	8.81184E-05	0.05740506
203921_at	CHST2	-0.630633755	8.95176E-05	0.05740506
209048_s_at	ZMYND8	0.630144599	9.03281E-05	0.05740506
210346_s_at	CLK4	0.831222447	9.19103E-05	0.05740506
1558292_s_at	PIGW	-0.674896344	9.20011E-05	0.05740506
223397_s_at	NIP7	-0.627292025	9.22589E-05	0.05740506
214963_at	NUP160	-1.019373574	9.28193E-05	0.05740506
219228_at	ZNF331	0.815284941	9.31307E-05	0.05740506
36711_at	MAFF	0.802494724	9.33226E-05	0.05740506
221768_at	LOC100506168	0.658977154	9.59083E-05	0.05740506
232889_at	NA	0.642442992	9.69058E-05	0.05740506
200799_at	HSPA1A	0.63030168	9.712E-05	0.05740506
213375_s_at	N4BP2L1	0.614411536	9.97828E-05	0.05740506
218642_s_at	CHCHD7	-0.636790803	0.000100136	0.05740506
229732_at	ZNF823	0.614468072	0.000101081	0.05740506
209682_at	CBLB	0.88010251	0.00010183	0.05740506
228098_s_at	MYLIP	0.76491669	0.000102303	0.05740506
201919_at	SLC25A36	0.61136844	0.000103804	0.05740506
217864_s_at	PIAS1	0.645780882	0.000103911	0.05740506
232471_at	NA	0.610910945	0.000103921	0.05740506
225610_at	UHRF2	0.60897637	0.000103995	0.05740506
213031_s_at	WDR73	-0.621474007	0.000104071	0.05740506
229305_at	MLF1IP	-0.620267572	0.000105212	0.05740506
213629_x_at	MT1F	-0.605431896	0.000109585	0.05740506
242725_at	KDELRL2	0.719573193	0.000112071	0.05740506
200810_s_at	CIRBP	-0.67058179	0.000113247	0.05740506
1556744_a_at	NA	0.598388146	0.000113386	0.05740506
228433_at	NFYA	0.745053023	0.000113655	0.05740506
211456_x_at	MT1P2	-0.602756601	0.000114459	0.05740506
202380_s_at	NKTR	0.618698973	0.000114897	0.05740506
205890_s_at	GABBR1	0.59852102	0.000115239	0.05740506
239409_at	NA	0.59934829	0.000115705	0.05740506
209290_s_at	NFIB	0.61090332	0.00011695	0.05740506
213694_at	RSBN1	0.592566335	0.00011846	0.05740506
221806_s_at	SETD5	0.591171041	0.000119503	0.05740506
239494_at	NA	-0.606322421	0.000121256	0.05740506
201917_s_at	SLC25A36	0.590715731	0.000121379	0.05740506
202861_at	PER1	0.605341911	0.000121489	0.05740506
221727_at	SUB1	-0.902211157	0.000121591	0.05740506
226663_at	ANKRD10	0.68918085	0.000122495	0.05740506
1554452_a_at	C7orf68	0.628923522	0.000124762	0.05740506

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Supplementary Table I. (Continued)

Probeset ID	Gene Symbol	log2 Fold Change	P-Value	FDR
224769_at	TAOK1	0.646893925	0.000125085	0.05740506
232184_at	ALS2	-0.594605428	0.000125523	0.05740506
201918_at	SLC25A36	0.645448549	0.000125886	0.05740506
204859_s_at	APAF1	0.598112748	0.000127757	0.05740506
232899_at	FAM41C	-0.600869227	0.000129327	0.05740506
202140_s_at	CLK3	0.582487609	0.00012958	0.05740506
227254_at	POU2F1	0.685639472	0.0001313	0.05740506
224820_at	FAM36A	-0.640999402	0.000132644	0.05740506
202497_x_at	SLC2A3	0.576273929	0.000134763	0.05740506
242403_at	NA	0.694327964	0.000135962	0.05740506
235060_at	LOC100190986	0.594596198	0.000136008	0.05740506
218507_at	C7orf68	0.573747925	0.000138029	0.05740506
205027_s_at	MAP3K8	0.686753138	0.000138733	0.05740506
227993_at	METAP2	-0.596986259	0.000138935	0.05740506
230748_at	SLC16A6	-0.691164537	0.000139931	0.05740506
213593_s_at	TRA2A	0.571625016	0.0001405	0.05740506
225077_at	CHD2	0.570930761	0.000141161	0.05740506
228173_at	GNAS	0.606692154	0.000141898	0.05740506
227932_at	ARIH2	-0.746631059	0.000143093	0.05740506
209574_s_at	C18orf1	-0.572449116	0.000143317	0.05740506
224765_at	MSL1	0.576704444	0.000143954	0.05740506
205034_at	CCNE2	-0.567887111	0.000144144	0.05740506
215176_x_at	IGKV1D-39	-0.56914387	0.000144891	0.05740506

Expression changes due to methylphenidate treatment of probe sets from microarray analysis which reached a marginally significant level after correction for multiple comparison with false discovery rate procedure (FDR).