Table 1: Two hundred genes whose expression levels were most strongly positively correlated with the expression of *COMT* by brain area

Rank	Prefrontal	Cerebellum	Temporal	Pons
1	RPL18	CPQ	GATM	KLK3
2	CAT	$C\!AT$	CAT	TMEM189-UBE2V1
3	COMT	PCCB	MMP28	COMT
4	ACY1	FUCA2	SNAP23	HIST1H2AC
5	CHCHD8	TMEM170A	CDC14B	SYPL1
6	GATM	RAB9A	THSD1	FNTA
7	MYO6	MBOAT2	PTTG1IP	TMEM170A
8	RPL18A	COMT	DTYMK	PRDX4
9	C10RF122	CYB5D2	PLPP3	GATM
10	YBX1	ACTG1	COMT	$C\!AT$
11	CDC14B	SELENOP	ALDH2	PSEN1
12	EDNRB	TMEM189-UBE2V1	<i>EDNRB</i>	CLU
13	PDLIM3	CBR1	ECH1	SLCO3A1
14	C6ORF48	VPS41	ARL6IP6	SPAG9
15	PGCP	PIGT	SLC25A20	KIF16B

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Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
16	PPIB	GRHPR	GLUL	MEGF10
17	ECH1	PFN1	MEGF10	HSPA2
18	DTYMK	MARCKSL1	IL17RB	AGPS
19	HSCB	PYCR2	GSTM2	B3GAT1
20	TTLL4	FNTA	HSCB	QKI
21	CSTB	MYO6	PIR	ADIPOR1
22	MEGF10	C3orf70	<i>DPY19L3</i>	PIGM
23	PNKD	DIRC2	PNPO	PIGT
24	H3F3C	PDE6D	SLC39A12	ARL6IP6
25	POLR2F	GRM3	HIST1H2AC	GSN
26	RPS2	PDE4B	MTM1	MOG
27	ZFAND3	B3GAT1	CSTB	MTM1
28	CLU	QKI	LRP4	SEC22C
29	РКМ2	PLPP3	CLDN10	LGALS3BP
30	PTTG1IP	PPIB	ACY1	MED30
31	RPL19	ABCA9	RGCC	TMBIM4

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
32	SERF2	TYW1	ASRGL1	MPLKIP
33	COPE	TIMMDC1	CRB1	UGT8
34	AASS	PTPRZ1	LRRC3B	PPIB
35	RPS14	WLS	PGM1	SPTLC2
36	C12ORF39	SYPL1	ARHGAP24	GATB
37	SPAG9	FAXDC2	CYP2J2	POLR2F
38	LIMS1	CPT2	WDFY2	TP53TG1
39	SNAP23	FGFR2	CAMKMT	CD9
40	PABPC1	PLPP1	RAB9A	PFN1

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
41	PPAP2B	CLN8	AASS	HIST1H4H
42	ZMAT5	HIP1	AQP4	PCSK6
43	RPS5	ISOC1	PTPRZ1	DTYMK
44	SCNM1	LRRC8D	MLC1	<i>TJP</i> 2
45	$BC\!A\mathcal{N}$	TP53TG1	PON2	Septin 10
46	RPL13A	DAD1	SASH1	SFT2D1
47	C20ORF58	SLC31A2	ZFAND3	CBR1
48	C3orf70	CD9	RIT1	ABHD17B
49	ELP4	DFFA	MERTK	MPC1
50	RPL12	HHLA3	DOCK7	RAB9A
51	PDE6D	ATP6V0E1	MYO6	COA4
52	GSN	EDNRB	QKI	KLHL4
53	THSD1	LYPLAL1	RANBP3L	$BV\!ES$
54	MMP28	CRTAP	LIMS1	ACTL6A
55	LRRC3B	LYRM2	C3orf70	STX2
56	ALDH2	PEX2	ETNPPL	BTD

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
57	IDH2	SPAG9	IQCK	CPQ
58	ADA	MOG	APCDD1	FNTB
59	IVD	PPP2R5C	HIP1	ATG3
60	PGLS	SERPINI1	THBS4	CCDC167
61	QKI	<i>TMEM165</i>	HSD17B6	SLC9A9
62	HSD17B6	TMEM42	RGN	PIR
63	PGM1	NCAM2	SPAG9	MARCKSL1
64	APOE	PRMT2	ITPR2	SFR1
65	PIR	PRTFDC1	TNFSF13	TLE4
66	RGC32	MAPRE1	SGPL1	CLN8
67	OLIG1	ABCA8	ACAA2	EDIL3
68	ACP6	FANCL	NR2E1	HIP1
69	CPT2	CDC14B	TPD52L1	SCHIP1
70	DFFA	COA4	EMX2	SSR4
71	CHCHD5	HSPA2	WLS	FA2H
72	APCDD1	OMG	ATP1B2	LRRC8D

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
73	GPSN2	ARMC10	BBS2	MYO1D
74	MLC1	CLDN11	ACP6	SNAP23
75	RPL35	CNPY3	ADGRV1	DYNC1I2
76	<i>SLC25A20</i>	HNMT	TTLL4	MOB3B
77	RPS3	PLPPR1	CBR1	DYNLT1
78	ARHGAP24	SFR1	PEX2	STXBP3
79	ARL6IP6	CKS1B	MGST1	AASS
80	HSD17B8	SEC22C	CHDH	DAD1

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
81	IQCK	TPPP3	RAB5C	PPP2R5C
82	ZHX2	$\mathcal{N}SDHL$	ALDH6A1	SELENOP
83	PIK3C2A	SUMF1	C4orf19	PTTG1IP
84	ACAA2	SPTLC2	RELA	ABCA9
85	ABTB2	FEZ1	PITPNC1	PXK
86	BGLAP	PXK	<i>TP53BP</i> 2	ACTG1
87	RAG1AP1	COPE	DGLUCY	AFMID
88	YIF1A	GSN	PSAT1	C1orf122
89	PRDX4	PEPD	PXMP2	KCTD3
90	PCCB	LLPH	LAMA1	SLC31A2
91	ALAD	IQCK	ATP6V0E1	TIMP2
92	FAM36A	MPC1	LRIG1	USH1C
93	RHBDD1	GALNT10	PPP2R5C	STAMBP
94	SCAMP2	FAM213A	SLC1A2	HSCB
95	STAT3	AASS	CHST7	ATRAID
96	HIST1H2AC	LAMP2	LHX2	CDKN1C

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
97	S100A16	PRDX4	PCDHGC3	PRKCSH
98	CIB1	IGSF11	COQ9	DAZAP2
99	DIRC2	PIR	APOE	DHRS4L2
100	PMF1	FAM177A1	CA2	KRT10
101	TTYH1	KIF16B	COA4	PAPSS1
102	WIPI1	NLGN3	IDH1	HINT3
103	ATP6V0E1	PAOX	TSC22D4	JADE3
104	RBP1	HSD17B6	AGPAT3	MYLK
105	CLCN2	PMF1	CHPT1	RHBDD1
106	MAPRE1	YBX1	FYN	ATP8A1
107	TPT1	TUBA1A	LGALS3	DIXDC1
108	GPR17	ATG3	SLCO1C1	ELOVL6
109	S100A13	RNF13	<i>TJP</i> 2	GPR27
110	CBR1	SLC44A1	CLU	MAPRE2
111	ELOVL2	KLHL4	VPS72	CKS1B
112	WDFY2	ATP5S	LARS2	MYO6

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
113		GPR27	POLR2F	PIGG
114	CYP2J2	TMEM59	CPT2	TALDO1
115	GALNT10	SH3BGR	DFFA	TMEM87A
116	GLUL	RNH1	HEXIM1 /// S1PR1	<i>TMEM116</i>
117	SGPL1	TMEM87A	DDR1	ALDH3A2
118	PLA2G5	SFT2D1	MARCKSL1	DICER1
119	KRT10	SMIM7	CLCC1	$MPD\mathcal{Z}$
120	THRA	JADE3	ZFHX4	IGSF11

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
121	C6ORF72	SLC25A26	DBI	PQLC3
122	CRB1	DTD1	PDLIM3	$\mathcal{N}RBP2$
123	EEF1D	C6orf48	$BC\!A\!N$	SLC44A1
124	EIF3S4	ACO2	IDH2	AGPAT3
125	FAU	GATM	SYPL1	KLK6
126	RELA	SLCO3A1	SCRG1	ANXA5
127	SASH1	ZMAT5	SLC15A2	SCCPDH
128	MON1B	ABTB2	ZNF22	ABCA8
129	PHGDH	RHBDD1	<i>TMEM136</i>	EMILIN2
130	GNG5	SGPL1	ACSBG1	AAR2
131	PTPRZ1	ALG14	PIPOX	FBXO32
132	PFN1	GTDC1	ZHX2	PLA2G16
133	$\mathcal{N}T5C$	TTYH2	ACOX2	RNH1
134	CHDH	TYMS	DVL3	BTG3
135	TNFSF13	SLC24A2	$GR\mathcal{N}$	NFE2L3
136	NME6	LGALS3BP	ZMAT5	POLR2G

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
137	NSMCE1	CREG1	ACTL6A	MED8
138	PCDHGC3	MAPRE2	CDKN2C	TIA1
139	CTNNA1	<i>SLC50A1</i>	ATPAF1	CTNNA1
140	CXORF38	SLC9A9	ELOVL2	DHRS4
141	CECR1	SPCS1	PNKD	TSPAN8
142	FER	C12orf76	SOX21	ENPP2
143	LRP4	STOM	ETFDH	ENPP6
144	RPS17	C1orf122	GNG12	SALL1
145	FTL	GMPR2	IL33	CTTNBP2
146	GNAI2	ACBD5	PRDX4	MEX3D
147	HIP1	DSCAML1	FAM89A	TMEM38B
148	NUBP1	PTTG1IP	GPAM	WDFY2
149	TST	TMBIM4	RHBDD1	ATP5S
150	AGPAT3	TTLL7	RIDA	FAXDC2
151	ALDH1A1	USP54	AK4P3	SASH1
152	ATPAF1	FBXO7	DYNLT1	ST18

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
153	DYNLT1	MLYCD	EPB41L5	ATP6V0E1
154	RAB9A	PSEN1	RPL18	DSCAML1
155	AKR7A3	PSMB2	CTSH	EXD2
156	C9ORF23	WBP1L	COPE	TMEM184B
157	CLK3	DHRS7	PHLPP1	CERS2
158	EIF4EBP3	GINM1	PPIB	CRYL1
159	LGALS3BP	$\mathcal{N}\!C\!ST\!\mathcal{N}$	ETFA	$\mathcal{N}\! L \mathcal{N}$
160	CINP	PDGFRA	GINM1	PDE4B

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
161	IGFBP7	UGT8	KRT10	MIF4GD
162	RPS9	FA2H	MAPRE1	MYO1E
163	CD302	SCRG1	MIF4GD	ELOVL1
164	PSME1	APBB2	SOX9	MLH1
165	C9ORF140	CNDP1	FBXO8	PLPP1
166	DAG1	DOCK10	SPX	SEC23B
167	KUA-UEV	CTSL	PLPP5	EIF2B1
168	C1ORF61	CXorf57	ACAA1	CDC14B
169	<i>DPY19L3</i>	DYNC1I2	COX20	MTSS1
170	HSD17B10	MRPL24	GALNT10	BORCS7
171	LDHD	POLR2G	PCCB	CYP27A1
172	GRHPR	DESI1	SLC9A9	LITAF
173	TMEM136	DHRS7B	APPL2	REEP3
174	VPS72	RFFL	ABHD3	FAM208A
175	CST3	MTM1	GNA12	SGCE
176	HLA-A	NRBP2	OLIG1	FBXO7

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
177	GM2A	YIF1B	RGS20	BRD7
178	$GR\mathcal{N}$	ACOT8	FAM198B	BRMS1
179	ACO2	KNOP1	PCDHGA12	POC5
180	PHPT1	ARL6IP6	PIK3C2A	TFCP2
181	TFPT	NSMCE1	ACO2	GLTP
182	VPS52	C10orf90	GPR37L1	HMGCL
183	<i>TP53AP1</i>	POLD4	PFN1	PDE6D
184	MTM1	DAZAP2	PSD2	SNRNP40
185	PARP4	EIF2AK1	YBX1	C3orf70
186	RPL36	HSD17B12	LDHD	MTUS1
187	GSTM2	GAPDH	NKX2.2	PSPH
188	SYPL1	GBA	$\mathcal{N}\!P\!L$	TMEM5
189	C11ORF48	EIF3I	TMEM123	AK2
190	MRPL53	$LGM\mathcal{N}$	TNIK	NSMCE1
191	RPL8	РОТЕКР	BCKDHA	PARP4
192	RPS11	TMCO1	C1orf122	SCRG1

Table 1: (Top 200 positively correlated genes continued)

Rank	Prefrontal	Cerebellum	Temporal	Pons
193	FAM102A	TMED10	CST3	MFSD14A
194	MGST1	WASHC5	CXorf38	CA14
195	PXMP2	ECH1	EIF4EBP3	DDRGK1
196	OACT2	IVD	GLI3	APBB2
197	C16ORF14	LIPA	HSPA2	PADI2
198	GNG12	ASPA	IL10RB	RFFL
199	PECR	DYNLT1	SCAMP2	CRIPT
200	PON2	PLIN3	IRF2BP2	PCCB