Table 1: The 500 most strongly *COMT* – correlated genes (ranking on correlation p-value) in Prefrontal Cortex.

1	*RPL18P13*	*CAT*	*COMT*	*ACY1*	*CHCHD8*	*GATM*	*MYO6*	*RPL18AP3*	*C1orf122*	*YBX1P2*
2	*CDC14B*	*EDNRB*	*PDLIM3*	*C6orf48*	***UBP1***[1]	*PGCP*	***CADPS2***	*PPIB*	*ECH1*	*DTYMK*
3	*HSCB*	*TTLL4*	*PNKD*	*CSTB*	*MEGF10*	*H3F3C*	*POLR2F*	*HIP1R*	*RPS2P8*	*ZFAND3*
4	*CLU*	*SERF2*	*PTTG1IP*	*PKM2*	*RPL19*	*COPE*	*AASS*	***NKRF***	*RPS14*	*C12orf39*
5	*SPAG9*	*LIMS1*	*SNAP23*	*PABPC1*	*PPAP2B*	*ZMAT5*	*SCNM1*	*RPS5*	*RPL13A*	*BCAN*
6	*NKAIN4*	***UBE3A***	***CCDC28A***	*C3orf70*	*RPL12*	***RUSC1***	*ELP4*	***CAMSAP1L1***	*PDE6D*	*GSN*
7	*THSD1*	*MMP28*	*LRRC3B*	*ALDH2*	*IDH2*	*ADA*	***ABCA5***	*PGLS*	*IVD*	*QKI*
8	***GRSF1***	*HSD17B6*	***ELOVL4***	*PGM1*	***RAB11FIP5***	*APOE*	*PIR*	*RGC32*	*OLIG1*	*ACP6*
9	*CPT2*	*DFFA*	***RAB3GAP1***	*CHCHD5*	*GPSN2*	*APCDD1*	*MLC1*	*SLC25A20*	*RPL35P5*	***SCAMP1***
10	*RPS3*	*ARL6IP6*	*ARHGAP24*	*HSD17B8*	*ZHX2*	*IQCK*	***LZTFL1***	***SH3BGRL2***	*PIK3C2A*	***WDR69***
11	***KPNA4***	*ACAA2*	***GABARAPL1***	*ABTB2*	***RARS***	*BGLAP*	*RAG1AP1*	*YIF1A*	*PRDX4*	***GPIAP1***
12	*PCCB*	***DENR***	*ALAD*	*FAM36A*	*RHBDD1*	***SDAD1***	***OPTN***	***PPP2CA***	*SCAMP2*	*STAT3*
13	***DNAJA2***	*S100A16*	*HIST1H2AC*	*TTYH1*	*PMF1*	*CIB1*	*DIRC2*	*WIPI1*	***MYCBP2***	*RBP1*
14	***SH3GL2***	***PJA2***	*ATP6V0E1*	*CLCN2*	*TPT1*	***NEFM***	*MAPRE1*	*GPR17*	*S100A13*	*H3F3AP4*
15	*CBR1*	*WDFY2*	*ELOVL2*	*CYP27J2*	***MGC35154***	***CCNB1***	*GALNT10*	*SGPL1*	*GLUL*	***NME5***
16	***KIF21A***	*PLA2G5*	***SMARCA2***	*THRA*	*KRT10*	*SASH1*	*EIF3S4*	*EAU*	*CRB1*	***SPATA18***
17	*C6orf72*	*EEF1D*	*RELA*	*MON1B*	***MATR3***	***PSMC1***	*PHGDH*	*PTPRZ1*	***PREPL***	*GNG5*
18	*PFN1*	*NT5C*	***SEL1L***	*CHDH*	*TNFSF13*	*NSMCE1*	*PCDHGC3*	***VPS36***	*NME6*	*CTNNA1*
19	***MCF2***	*CXorf38*	*RPS17*	***SAE1***	*LRP4*	*CECR1*	*FER*	*TST*	*GNAI2*	*NUBP1*
20	*FTL*	*HIP1*	***HSF2***	*AGPAT3*	*ALDH1A1*	*ATPAF1*	*RAB9A*	*DYNLT1*	*AKR7A3*	***SNAP91***
21	*CLK3*	*LGALS3BP*	*C9orf23*	***SYT4***	*EIF4EBP3*	*RPS9*	***C14orf169***	*IGFBP7*	*CINP*	*CD302*
22	***ARHGEF3***	*PSME1*	***CADPS***	*C9orf140*	*KUA-UEV*	*DAG1*	***PRR23B***	*C1orf61*	***IFITM5***	*LDHD*
23	***CDC37L1***	*HSD17B10*	*DPY19L3*	*GRHPR*	*VPS72*	***ATG5***	***GABRG2***	*TMEM136*	***TOMM34***	*HLA-A*
24	*CST3*	***FAM83B***	***C5orf5***	***NDFIP1***	*GRN*	*GM2A*	*TFPT*	*VPS52*	*PHPT1*	*ACO2*
25	*TP53AP1*	***LOC401589***	*MTM1*	*RPL36*	*PARP4*	***LIPI***	*GSTM2*	*SYPL1*	*MRPL53*	*RPL8*
26	*RPS11*	*C11orf48*	*FAM102A*	*PXMP2*	*MGST1*	***CCPG1***	***KIAA1600***	***NEFH***	***SYNJ1***	*OACT2*

Table 1: *(Top 500 Positively Correlated Genes in PF Crtx Continued)*

27	*GNG12*	*PON2*	*C16orf14*	*PECR*	***TRIM37***	*LIX1L*	***YARS***	***LPHN2***	***SMAP1***	*SELENBP1*
28	***POPDC3***	*RFXANK*	*NPL*	***TCEAL2***	***CASC1***	***CD83***	*BCKDHA*	*TSC22D4*	***APRIN***	*FAH*
29	***MKL2***	***SLC6A15***	***LIN28B***	***MEF2C***	***ATP6V1C1***	***MTCH1***	***ARL15***	*C2orf18*	*SLC25A1*	*CRYL1*
30	*IGSF1*	*SFRS15*	*PYCR2*	***PTPN4***	*C11orf59*	*ARSF*	*CLDN10*	*TGFB2*	*DOCK1*	***CDH12***
31	***ENO2***	***C15orf37***	***OXR1***	***PIP3-E***	*ANXA5*	*BCAT2*	***CACNA2D3***	***RSPO3***	*TMEM134*	*RPL30*
32	***PLCB1***	*DERA*	*RANBP3L*	***NAPB***	*ITGB5*	*C2orf34*	*PRKCSH*	*GPR37L1*	*MERTK*	*C2orf68*
33	***SLC25A12***	*ASRGL1*	***TOMM70A***	*PCDHGA12*	***THYN1***	*MTA3*	*C2orf28*	*IRF2BP2*	*GNA13*	***TOPBP1***
34	***MYH10***	*FADS1*	*EPN2*	*PITPNC1*	***PCMT1***	*CTSH*	*ZBTB20*	*C9orf46*	***PCTK2***	***ENPP5***
35	***CAPZA2***	***DNAJC5G***	***CCNF***	*ADHFE1*	*TMBIM4*	*MARCKSL1*	*C10orf26*	***SLC30A5***	*RPS13*	*AGXT2L1*
36	***PIP5KL1***	*ACOX2*	***CCDC63***	*OLIG2*	*ZNF775*	***RALYL***	*PNPO*	***AFF2***	*MSRB2*	***COL5A2***
37	***WASL***	***ZNF804B***	*ACSS1*	***SLC39A10***	*AP3M1*	***DCP2***	*HYI*	***VMA21***	*DBI*	*ZFHX4*
38	*EDG1*	***WDR16***	*ADORA2B*	***RPP40***	***CYP4X1***	*PPAP2A*	***PRICKLE1***	*FBXO8*	*C5orf4*	*HDGF*
39	*MDS032*	*RPLP0*	*S100B*	*EPHX2*	***FLJ37357***	*PPP2R5C*	*CRTAC1*	***NCKAP1***	***FAM26C***	*GNA12*
40	*ABHD3*	*TSPAN12*	*PXMP3*	***B3GNT1***	***OR5K3***	***TTC19***	***NDEL1***	*TP53BP2*	***FLJ23049***	***PANK2***

Table 1: *(Top 500 Positively Correlated Genes in PF Crtx Continued)*

41	***CUL3***	*FYN*	***AP3M2***	*UCRC*	***EPB41L3***	*USP54*	***ZNF533***	*RPS4X*	***B4GALNT2***	***RP1-32F7.2***
42	*FUCA2*	*RRNAD1*	***TAS2R8***	***KRT222P***	*TAX1BP3*	*NR2E1*	***AHI1***	*SLC39A12*	***MC3R***	*SS18*
43	***ADARB1***	*FGFR2*	***GPRASP2***	*MIF4GD*	*SLC7A6OS*	***LARGE***	*ACTL6A*	***ZYG11B***	*SLC9A9*	*GPR177*
44	*ACSBG1*	*RIT1*	***MLL2***	***ORC4L***	*PLAT*	*FLJ10986*	***GLS***	*HHLA3*	***PI4KII***	*DERL2*
45	***IL5RA***	*C6orf129*	*FGF1*	*PACS2*	*SORCS2*	*LGALS3*	***ALS2CR13***	***UBE2D2***	***NARS***	***ACTR6***
46	*PIPOX*	*PHLPP*	***KLK7***	*CD82*	*EPB41L5*	***LUZP4***	*ACOX1*	***GRM1***	***REEP5***	***ALX4***
47	*OPLAH*	*CYB5A*	***AFF3***	***ZNF490***	*C3orf63*	***CAMTA1***	*ACAA1*	*AK2*	***LRFN5***	***ZNF396***
48	*GJB6*	*KIAA1161*	*SLCO1C1*	*CDC14A*	*RPL11*	***LDB2***	*CDC2L1*	***PRC1***	***LGALS13***	***NDUFV2***
49	*RGS20*	***RIOK1***	***HSDL1***	*HLA-F*	***RPIB9***	*C5orf32*	*PELI2*	***MRPS36***	***KIAA0528***	*EDG7*
50	***MTMR4***	*C1orf198*	***VDAC3***	*DLL1*	***MAG1***	*TUFM*	***PCDHGA1***	*SEC13*	*PSAT1*	*IDH1*
51	***ZBTB24***									

[1]The expression levels of genes in boldface are negatively correlated with *COMT* expression.

Table 2: The 500 most strongly *COMT* − correlated genes (ranking on correlation p-value) in Cerebellum.

1	*PGCP*	*CAT*	*PCCB*	*FUCA2*	*TMEM170*	*RAB9A*	*OACT2*	***ARHGEF12***	*COMT*	*CYB5D2*
2	***TMEM106C***	*ACTG1*	*SEPP1*	*KUA-UEV*	*CBR1*	*VPS41*	*PIGT*	*GRHPR*	*PFN1*	*MARCKSL1*
3	*PYCR2*	*FNTA*	***C1orf71***	*MYO6*	*PDE6D*	*C3orf70*	*DIRC2*	*GRM3*	*PDE4B*	*B3GAT1*
4	*QKI*	*PPAP2B*	*PPIB*	*ABCA9*	***SNAP91***	*TYW1*	***CDS1***	*C3orf1*	*PTPRZ1*	*GPR177*
5	*SYPL1*	***GLE1L***	***MAP1B***	*C5orf4*	***RGS17***	***RPIB9***	***CELSR3***	*CPT2*	*FGFR2*	*PPAP2A*
6	*C8orf61*	***RUSC1***	***TTC19***	*HIP1*	*TP53AP1*	*ISOC1*	*LRRC8D*	*DAD1*	*SLC31A2*	*HIP1R*
7	*CD9*	*HHLA3*	*DFFA*	*ATP6V0E1*	*EDNRB*	*LYPLAL1*	***CAMSAP1L1***	*LYRM2*	*CRTAP*	*PXMP3*
8	*SPAG9*	*PPP2R5C*	*MOG*	*TMEM42*	*TMEM165*	***ZMYND17***	*SERPINI1*	*PRTFDC1*	*NCAM2*	*PRMT2*

Table 2: *(Top 500 Positively Correlated Genes in Crblm Continued)*

9	***RNF150***	***PRKCE***	*MAPRE1*	*ABCA8*	*FANCL*	***SYT4***	***SUZ12***	*OMG*	*CHCHD8*	*CDC14B*
10	*HSPA2*	*CLDN11*	*ARMC10*	*PRG-3*	*TNRC5*	*C10orf78*	*HNMT*	*SEC22C*	*CKS1B*	***GFOD1***
11	*CGI-38*	*NSDHL*	***ALS2CR13***	*SUMF1*	*SPTLC2*	*FEZ1*	*PXK*	*GSN*	***FAM80B***	*COPE*
12	*PEPD*	*C12orf31*	***SERBP1***	***MYCBP2***	*IQCK*	*BRP44L*	*GALNT10*	***CPEB3***	*C10orf58*	*LAMP2*
13	*PRDX4*	*AASS*	*IGSF11*	*PIR*	*C14orf24*	*C20orf23*	*PAOX*	*NLGN3*	***ZYG11B***	*HSD17B6*
14	*PMF1*	*YBX1P2*	***ZNF398***	*TUBA1A*	***SCN2A***	*RNF13*	*ATG3*	***ZNF540***	*SLC44A1*	*KLHL4*
15	*ATP5S*	*GPR27*	*TMEM59*	*SH3BGR*	*RNH1*	*TMEM87A*	***BSN***	*C19orf42*	*SFT2D1*	***EDC4***
16	***LIN9***	*PHF16*	***RARS***	*SLC25A26*	*DTD1*	*C6orf48*	*ZMAT5*	*GATM*	*ACO2*	*SLCO3A1*
17	*ABTB2*	*RHBDD1*	*SGPL1*	*ALG14*	*TTYH2*	*TYMS*	*GTDC1*	***NRIP3***	*SLC24A2*	*LGALS3BP*
18	*RAG1AP1*	*CREG1*	*SLC9A9*	*SPCS1*	***LEPREL2***	*MAPRE2*	*FLJ40142*	*STOM*	***MMS19L***	*C1orf122*
19	*GMPR2*	***GPR135***	*PTTG1IP*	*DSCAML1*	*TMBIM4*	*ACBD5*	*TTLL7*	*USP54*	*PSEN1*	*FBXO7*
20	*PSMB2*	*C10orf26*	***PLEKHA5***	*MLYCD*	*NCSTN*	*C6orf72*	*DHRS7*	*PDGFRA*	*UGT8*	*FA2H*
21	*SCRG1*	***SPIRE1***	***FLJ20054***	*CNDP1*	*DOCK10*	*APBB2*	*DYNC1I2*	*CTSL1*	*CXorf57*	*POLR2G*
22	*MRPL24*	***CNOT6***	*DHRS7B*	*D15WSU75E*	*RFFL*	***CHD9***	***WDFY1***	*MTM1*	*NRBP2*	*YIF1B*
23	*KNOP1*	*ACOT8*	***FBXL10***	*NSMCE1*	*ARL6IP6*	*POLD4*	*C10orf90*	***SNAPC4***	***STK36***	***PHKA2***
24	*EIF2AK1*	*DAZAP2*	*HSD17B12*	*GAPDH*	*GBA*	*TMED10*	*EIF3S2*	*FKSG30*	*LGMN*	*TMCO1*
25	*KIAA0196*	***CDC2L5***	*LIPA*	*ECH1*	***ARPP-21***	*IVD*	***FAM13A1***	*ASPA*	*DYNLT1*	*M6PRBP1*
26	***SETDB2***	*ERCC1*	***SH3GL2***	*PQLC3*	*ETFA*	*EDIL3*	*ZDHHC9*	*JTV1*	*C1orf57*	*DCTN6*
27	*COX6A1*	*SOX10*	*AK2*	***RYR2***	***RAB3GAP1***	*ANXA5*	*TCEA2*	*C11orf49*	*ENPP6*	***ELOVL4***
28	*CAPN13*	*RNF130*	***KIAA1853***	*C18orf10*	*CDKN1C*	***ZNF562***	*PFDN1*	*TM4SF11*	*NDN*	*CA14*
29	*C1orf19*	*TRIM45*	*SLC45A3*	*PIGK*	*PHYHIPL*	*CADM4*	***TNFRSF25***	*RIPK2*	*DNAPTP6*	*C20orf169-DBNDD2*
30	***SLC30A7***	*ENPP2*	***RPS6KA4***	*CD82*	*BTG3*	*ALAD*	*CYP27A1*	*ARMCX6*	*KIAA0256*	*ERBB3*
31	***FOXO3A***	*DERA*	*RPAIN*	*ZNF488*	*CDKAL1*	*CLCN3*	*KLK6*	*SEC11C*	*CHCHD5*	*MYO1D*
32	*RHBDL2*	*PHF11*	*ENOSF1*	*C9orf46*	*GREM1*	*TMEM98*	***AHCTF1***	***DIAPH1***	*LARS2*	*RPN1*
33	***USP47***	*ZNF174*	*C20orf116*	***EPC2***	*DHRS4*	***PCDHAC1***	***GALNT9***	*MYLK*	*TMEM63A*	***TAF5***
34	*NOLA2*	*PAQR4*	***FRMD6***	*SCCPDH*	***RAB11FIP5***	***RSAD1***	*GAL3ST1*	*PTPN13*	*ADC*	***KCNQ2***

Table 2: *(Top 500 Positively Correlated Genes in Crblm Continued)*

35	***DEFB103B***	*SRPX*	*GM2A*	*TMEM125*	*POLR2F*	*PSPH*	***BICD1***	*SLCO1A2*	***HSF2***	*SEMA4D*
36	*NDUFA11*	*CNTN2*	***MALT1***	***C11orf31***	*CHRNB1*	***MAP3K12***	*SHC4*	*PADI2*	*KCTD18*	*SLC25A20*
37	***FOXJ2***	*SUMF2*	*HRASLS3*	*RPS2P8*	*ARPP-19*	*DMRT2*	*GOLGA7*	***NCOA3***	***SNAP25***	*ADSSL1*
38	*GPR37*	***RPUSD4***	*HSD17B4*	*ACTL6A*	*AP3B1*	*C3orf63*	***ZIM2***	***PRRT2***	*CDC123*	*GLT25D2*
39	*GLTP*	***ZNF529***	*EVI2A*	***ARL5A***	*SALL1*	*EMG1*	*ARHGAP1*	***KIAA0672***	*S100B*	***TUFT1***
40	*CCNE2*	*DDX19A*	*GAB1*	*SNAP23*	***PIP3-E***	*CAP1*	*TST*	***ZHX1***	*NIN7J2*	*VPS52*

Table 2: *(Top 500 Positively Correlated Genes in Crblm Continued)*

41	***TSPAN9***	*TM9SF1*	*FOLH1*	***CCNB1***	*AP1GBP1*	*DTYMK*	*BTBD16*	*INTU*	*AFMID*	*LACTB2*
42	*TMEM136*	***MAG1***	*SERF2*	*NUDCD2*	*C10orf32*	***LRRC37B***	*CA2*	*MON1B*	*CCDC21*	*HOXD1*
43	*YIPF1*	***RPS6KB1***	*PLCL1*	*KIF13B*	***SETD6***	*HPN*	*CRTAC1*	***MAP3K5***	***LOC731950***	*EXOSC5*
44	*LITAF*	*COL16A1*	*BVES*	***KIAA0240***	*MOBKL2B*	*MGC35308*	*NMB*	*RAB33A*	*RASSF2*	*RRNAD1*
45	***COL4A3BP***	*GPAA1*	*PMP22*	*SLC5A11*	*GPX4*	***PLEKHA6***	*CLU*	***UGCG***	*STX2*	*UBE2G1*
46	***FSTL5***	*DSCR3*	***POLG***	*CXADR*	***ZNF521***	*RTKN*	*TAX1BP1*	*HLCS*	*HSD17B10*	***ZNF354A***
47	***ADARB1***	***KBTBD8***	*LTC4S*	*SLC35F1*	*TGFA*	***ZNF547***	*CCS*	***TRIM13***	*PHC2*	*CRADD*
48	*TALDO1*	*TBCC*	*DAK*	***GABRB3***	*GJB1*	*BTF3*	***KCTD2***	***RIMS3***	*ZNF326*	***WDR42A***
49	*NUDT5*	*TSPAN3*	*AHCY*	***SCN3A***	***CAPZA2***	*DLL1*	*CD302*	*LZTS2*	*FAM55C*	*ELOVL6*
50	***CRYGS***	*ADIPOR1*	*CYB561D2*	*AGPAT3*	***PER2***	*ZMAT3*	*ABCF2*	***PPP2R5E***	*TMEM16D*	*HIAT1*
51	***THRAP2***									

Table 3: The 500 most strongly *COMT* − correlated genes (ranking on correlation p-value) in Temporal Cortex.

1	*GATM*	*CAT*	*MMP28*	*SNAP23*	*CDC14B*	*THSD1*	*PTTG1IP*	*DTYMK*	*PPAP2B*	*COMT*
2	*ALDH2*	*EDNRB*	*ECH1*	*ARL6IP6*	*SLC25A20*	*GLUL*	*MEGF10*	*IL17RB*	*GSTM2*	*HSCB*
3	*PIR*	*DPY19L3*	*PNPO*	*SLC39A12*	*HIST1H2AC*	*MTM1*	*LRP4*	*CSTB*	*CLDN10*	*RGC32*
4	*ACY1*	*ASRGL1*	*CRB1*	*PGM1*	*LRRC3B*	*ARHGAP24*	*CYP2J2*	*WDFY2*	*RAB9A*	*C2orf34*
5	*AASS*	*AQP4*	*PTPRZ1*	*MLC1*	*PON2*	*SASH1*	*ZFAND3*	*RIT1*	***PSMC1***	*MERTK*
6	*QKI*	*DOCK7*	*MYO6*	*RANBP3L*	*LIMS1*	*AGXT2L1*	*C3orf70*	*IQCK*	*HIP1*	*APCDD1*
7	*THBS4*	*HSD17B6*	*RGN*	*SPAG9*	*ITPR2*	*TNFSF13*	*SGPL1*	*ACAA2*	*NR2E1*	*TPD52L1*
8	*GPR177*	*EMX2*	*BBS2*	*ATP1B2*	*ACP6*	*GPR98*	*TTLL4*	*PXMP3*	*CBR1*	*MGST1*
9	*CHDH*	*RAB5C*	*ALDH6A1*	*C4orf19*	*RELA*	*PITPNC1*	*TP53BP2*	*C14orf159*	*PSAT1*	*PXMP2*
10	*LAMA1*	*LRIG1*	*ATP6V0E1*	*PPP2R5C*	*SLC1A2*	*LHX2*	*PCDHGC3*	*CHST7*	*COQ9*	***CADPS2***

Table 3: *(Top 500 Positively Correlated Genes in Temp Crtx Continued)*

11	*IDH1*	*CHCHD8*	*CA2*	*APOE*	*TSC22D4*	*AGPAT3*	*CHPT1*	*LGALS3*	*FYN*	*SLCO1C1*
12	*TJP2*	*CLU*	*VPS72*	*LARS2*	*POLR2F*	*CPT2*	***CCNB1***	*EDG1*	*DFFA*	*DDR1*
13	*MARCKSL1*	*CLCC1*	*ZFHX4*	*DBI*	*PDLIM3*	*SYPL1*	*IDH2*	*BCAN*	*SLC15A2*	*ZNF22*
14	*SCRG1*	*TMEM136*	*ACSBG1*	*PIPOX*	*ZHX2*	***FLJ32310***	*ACOX2*	*GRN*	*DVL3*	*ZMAT5*
15	***CYP4X1***	*ACTL6A*	***RAD1***	*CDKN2C*	*ATPAF1*	*PNKD*	*ELOVL2*	*SOX21*	***RFC2***	*ETFDH*
16	*GNG12*	*IL33*	*PRDX4*	*HIP1R*	*GPAM*	*FAM89A*	*HRSP12*	*RHBDD1*	*DYNLT1*	*AK3L2*
17	*EPB41L5*	*RPL18P13*	*CTSH*	*PPIB*	*COPE*	*PHLPP*	*MIF4GD*	*MAPRE1*	*SOX9*	*ETFA*
18	*C6orf72*	*KRT10*	*C12orf39*	*FBXO8*	*LINC00299*	*PPAPDC1B*	*ACAA1*	*FAM36A*	*PCCB*	*SLC9A9*
19	*GALNT10*	*APPL2*	*OLIG1*	*ABHD3*	*GNA12*	*RGS20*	*C4orf18*	***CCDC25***	*PCDHGA12*	*PIK3C2A*
20	*GPR37L1*	*PFN1*	*YBX1P2*	*PSD2*	*ACO2*	***TMEM70***	*LDHD*	*TNIK*	*TMEM123*	*NPL*
21	***TRAF5***	*NKX2-2*	***INPP5A***	*C1orf122*	*CST3*	*BCKDHA*	*CXorf38*	*HSPA2*	*EIF4EBP3*	***IRX5***
22	*GLI3*	***SLC30A9***	*IL10RB*	*SCAMP2*	*PDE6D*	*IRF2BP2*	*TST*	*SFT2D1*	*MSI2*	*ATP1A2*
23	*SLC7A10*	*IGFBP7*	*GNA13*	*KUA-UEV*	*SEC22C*	*PARP4*	*C10orf110*	*GNG5*	***RARS***	*NTRK2*
24	*AP3M1*	***HNRPU***	*GPSN2*	*TMEM38B*	***PDE1A***	*GSTK1*	***MPP3***	***SUPT16H***	***ZNF622***	*PRKD1*
25	*FGF2*	*TTYH1*	***TTC21B***	*NWD1*	*C9orf61*	*TM9SF1*	*OAF*	*BCAR3*	***CDKN3***	*GSN*
26	*PHKG1*	***CAMSAP1L1***	***ARL15***	*PHGDH*	*TNFAIP6*	*C5orf32*	***UBP1***	*ITGAV*	*HIBCH*	*GPT2*
27	*GNAI2*	***RAD9B***	*PGCP*	*ADORA2B*	***ABCA5***	*PPAP2A*	***C9orf123***	*PLA2G5*	***C5orf5***	*S100A13*
28	*GALNT4*	*SPARCL1*	*ADA*	*BBOX1*	*TSPAN12*	***RUSC1***	*SPON1*	*TNRC5*	*MSRB2*	***BEST4***
29	*PDGFRA*	*RBM4B*	*IGSF11*	*AKR7A3*	*PCDHB5*	*SERF2*	*LSAMP*	***CUL3***	*CSRP1*	***LMO7***
30	***LRCH1***	*PARP3*	*C5orf4*	***USP15***	*FZD8*	*FADS1*	*CRYL1*	*MTUS1*	*TRPS1*	***CASC1***
31	*DHRS4L2*	*TBC1D14*	*CHRNB1*	***PLA2R1***	***SH3GL2***	*SLC44A3*	*AMOT*	*C3orf63*	*S100A1*	*ADHFE1*
32	***SHH***	*KIAA1161*	*CLK3*	*ACSL6*	***TLK1***	***TCEAL4***	*LYN*	*RHOBTB3*	*ALDH7A1*	*C9orf46*
33	*ABTB2*	*SLC7A6OS*	*DNASE2*	*NUDT5*	*ZBTB20*	***HSF2***	*SORCS2*	*GPR17*	*EPHX1*	*NLGN3*
34	***RET***	*SFRS15*	*METT11D1*	*ACOX1*	***EIF2B3***	*POU3F2*	*ELP4*	*CD37*	*GRHPR*	*PYCR2*
35	*DDO*	*PYGM*	*H3F3AP4*	*DERA*	*OPHN1*	*PHF21B*	*CCDC121*	***UBE2D2***	*FNTA*	*NPAS3*
36	*DHX32*	*ITGB5*	*TUBB2B*	*APOC2*	*PARP9*	*CDC42EP4*	***APRIN***	***POLR3C***	*STOX1*	*LOC400455*

Table 3: *(Top 500 Positively Correlated Genes in Temp Crtx Continued)*

37	***CHSY-2***	*RFTN2*	*RNF182*	*WASF3*	***CALB1***	*EPHX2*	***KIAA0789***	*SH3BP4*	***GFM1***	*HSF1*
38	*FTL*	***TOMM70A***	***ERO1L***	*DOCK1*	*C22orf9*	***C20orf107***	*SH3BGRL3*	*DHRS4*	***LCN8***	*FAM102A*
39	*DAG1*	***ELOVL4***	*C16orf14*	*EFHD1*	***C1orf74***	*RAB7L1*	*CYFIP1*	*MON1B*	***PI4KII***	*CD82*
40	***SEL1L***	***DKFZP686D0972***	*FAH*	***PHF17***	***PER2***	*C19orf54*	*NME6*	*OLIG2*	***NEK10***	***SLC30A5***

Table 3: *(Top 500 Positively Correlated Genes in Temp Crtx Continued)*

41	*SLC35B2*	***GRSF1***	*FAM96A*	*TSEN34*	*C2orf18*	***BA16L21.2.1***	*CD302*	*ZNF385*	*C1orf198*	*ELOVL5*
42	*OMA1*	***CDC37L1***	***USP14***	*NUBP1*	*SLC7A11*	*ANKFY1*	***POLR3A***	*DHTKD1*	*SLC4A4*	*OTX1*
43	*SRI*	***ZWILCH***	*TH1L*	*KCTD18*	*KAL1*	*STAT3*	*PEPD*	*DLL1*	***TMEM127***	*CADM4*
44	*SGCE*	***APP***	*RERG*	*PCBD1*	***ARPC5L***	*TLCD1*	***BAAT***	***UBE3A***	*CNTFR*	*MRPL53*
45	*GPX7*	***SAMD5***	***PCMT1***	*TMEM80*	*RYR1*	***SH3BP5***	*TPP1*	*C20orf72*	*ALDH4A1*	*PHACTR4*
46	*POGZ*	***FLT3***	*CSRP2*	*DIRC2*	*F3*	*HHLA3*	*RFXANK*	***EPB41L3***	***MIXL1***	*HSD17B10*
47	***LMNB1***	*GAL3ST4*	***RHEBL1***	*CTNNA1*	***TTC19***	***MCF2***	*FAM118B*	***LMX1B***	*IVD*	***GBP7***
48	***TAF5***	***ZNF544***	***ZNF263***	*MRPL41*	*HIGD2A*	*GPR56*	*ALAD*	*LEPROT*	*TM4SF18*	*TP53AP1*
49	***STS***	*ASCL1*	***UBE2J1***	*HLA-A*	*KIAA0195*	*PPP1R3D*	*COL5A3*	*SELENBP1*	*HERPUD2*	***LZTFL1***
50	*ANKRD15*	*ASXL2*	*MCCC2*	*GNG7*	*NFE2L2*	*BZRAP1*	*NKAIN4*	***ZWINT***	***MAT1A***	*LRRC8A*
51	*AKR1C3*									

Table 4: The 500 most strongly *COMT* − correlated genes (ranking on correlation p-value) in Pons.

1	*KLK3*	*KUA-UEV*	*COMT*	*HIST1H2AC*	*SYPL1*	*FNTA*	*TMEM170*	*PRDX4*	*GATM*	*CAT*
2	*PSEN1*	*CLU*	*SLCO3A1*	*SPAG9*	*MEGF10*	*C20orf23*	*HSPA2*	*AGPS*	*QKI*	*B3GAT1*
3	*ADIPOR1*	*PIGM*	*PIGT*	*ARL6IP6*	*LRRC63*	*GSN*	*MOG*	*MTM1*	*SEC22C*	*LGALS3BP*
4	*THRAP6*	*TMBIM4*	*C7orf11*	*UGT8*	*PPIB*	*SPTLC2*	*POLR2F*	*PET112L*	*TP53AP1*	*CD9*
5	*PFN1*	*PCSK6*	*HIST1H4H*	*DTYMK*	*TJP2*	*SEPT10*	*SFT2D1*	*CBR1*	*C9orf77*	*BRP44L*
6	*RAB9A*	*CHCHD8*	*KLHL4*	*BVES*	*STX2*	*ACTL6A*	*BTD*	*PGCP*	*FNTB*	*C6orf129*
7	*ATG3*	*SLC9A9*	*PIR*	*MARCKSL1*	*TLE4*	*C10orf78*	*SCHIP1*	*EDIL3*	*HIP1*	*C8orf61*
8	*SSR4*	*MYO1D*	*LRRC8D*	*FA2H*	*SNAP23*	***PRELID1***	*MOBKL2B*	*DYNC1I2*	*STXBP3*	*DYNLT1*
9	*AASS*	*SEPP1*	*PPP2R5C*	*DAD1*	*PTTG1IP*	*ABCA9*	***EEF2K***	*PXK*	*USH1C*	*SLC31A2*
10	*AFMID*	*C1orf122*	*KCTD3*	*TIMP2*	*ACTG1*	***CAMSAP1L1***	*STAMBP*	*HSCB*	*C2orf28*	*PRKCSH*

Table 4: *(Top 500 Positively Correlated Genes in Pons Continued)*

11	*CDKN1C*	*DAZAP2*	*DHRS4L2*	*KRT10*	*PAPSS1*	*HINT3*	*RHBDD1*	*PHF16*	*MYLK*	*ATP8A1*
12	*MAPRE2*	*ELOVL6*	*DIXDC1*	*GPR27*	*MYO6*	*CKS1B*	*TMEM87A*	*PIGG*	*TALDO1*	*TMEM116*
13	*ALDH3A2*	*DICER1*	*MPDZ*	*PQLC3*	*IGSF11*	*NRBP2*	*SLC44A1*	*KLK6*	*AGPAT3*	*ANXA5*
14	*SCCPDH*	*ABCA8*	*EMILIN2*	*C20orf4*	*HRASLS3*	*RNH1*	*FBXO32*	*NFE2L3*	*BTG3*	*POLR2G*
15	*MED8*	*TIA1*	*CTNNA1*	*TSPAN8*	*DHRS4*	***FLJ11506***	*SALL1*	*ENPP6*	*KIAA1026*	*ENPP2*
16	*C9orf164*	***ARHGEF12***	*RKHD1*	*TMEM38B*	*CTTNBP2*	*WDFY2*	***FLOT2***	*ATP5S*	*C5orf4*	*ST18*
17	*SASH1*	*EXDL2*	*ATP6V0E1*	*DSCAML1*	*C22orf5*	*NLN*	*PDE4B*	*CRYL1*	*LASS2*	*MIF4GD*
18	*MYO1E*	*MLH1*	*PPAP2A*	*ELOVL1*	*SEC23B*	*EIF2B1*	*MTSS1*	*CDC14B*	*C10orf32*	*LITAF*
19	*CYP27A1*	*REEP3*	***GPC5***	***RARS***	*C3orf63*	*SGCE*	*FBXO7*	*C5orf37*	*BRD7*	*TFCP2*
20	*BRMS1*	*HMGCL*	*GLTP*	*PDE6D*	*WDR57*	*TMEM5*	*C3orf70*	*PSPH*	*MTUS1*	*PARP4*
21	***RAB11FIP5***	*NSMCE1*	*AK2*	*SCRG1*	*HIAT1*	*CA14*	*C20orf116*	*RFFL*	*APBB2*	*PADI2*
22	*PCCB*	*CRIPT*	*RRNAD1*	*CADM4*	*SERF2*	*ZMYM5*	*TMC7*	*CLDN11*	*YIF1A*	*COL16A1*
23	*ZFAND3*	*C1orf77*	*TMEM59*	*ERBB2IP*	*LIPA*	*CMTM5*	*KIAA0196*	***PRPF19***	*UBE2G1*	***HARS***
24	*EFS*	*HHLA3*	*OMA1*	*CYP2J2*	***KIAA0672***	*M6PRBP1*	*HNRPC*	***DNAJC5***	*LYRM2*	*STT3A*
25	*PGLS*	*CECR1*	*C6orf72*	*INTS4*	***BCAP31***	*SNX24*	*SIRT2*	*TRIP4*	*KIAA0892*	*SLC12A2*
26	*BBX*	*PLEKHG4*	*PMF1*	*PRPSAP2*	*CYB5A*	*TTLL4*	*SORT1*	*ALG13*	*SCNM1*	*H3F3AP4*
27	*ITGAV*	*TESK2*	*KIAA0776*	*FIS1*	*SS18*	***CPEB3***	***SRPRB***	***CDS1***	*RBM4B*	*ANGPTL2*
28	*UNC50*	*RP2*	*ZDHHC14*	*KLHDC1*	*RNF13*	*CANT1*	*GALC*	*SSFA2*	*INTU*	*SPP1*
29	*PTPRD*	*RNF130*	*BAT5*	*PHF11*	***LUZP1***	*SGK2*	*C10orf90*	*CNTNAP4*	*VAMP3*	*IMPDH2*
30	*HOXD1*	***NETO2***	*PIK3C2A*	*FBXO8*	***ARPC5L***	***FAM123B***	*ACY1*	*TOR1AIP1*	***UBP1***	*CYP20A1*
31	*GM2A*	*HIST2H2BE*	*TTLL11*	*PXMP3*	*EFCBP1*	*DKFZP434A0131*	*OACT2*	*C20orf39*	*ARMC10*	*MAP7*
32	*C11orf67*	*C1orf198*	*ANAPC5*	*ATG4C*	*ZCCHC11*	***B4GALNT1***	*DYRK4*	*ZMAT5*	***ELOVL4***	*LDLRAP1*
33	***YAF2***	*LAMP2*	*TMEM140*	*ELOVL2*	*CXADR*	*TTYH2*	*TTLL7*	*ANKFY1*	***ST3GAL3***	***RALBP1***
34	*PHF5A*	***C1orf135***	*NSMCE4A*	***PRKCE***	*FAM13C1*	*CAPN3*	*DDX19A*	*SP2*	*NEK7*	*GEMIN8*
35	***KIAA0319***	*TBC1D2*	*ASCC1*	***INSM2***	***PDXK***	***RPIB9***	*DOCK10*	*RHBDL2*	***OPRL1***	*FUSIP1*
36	*GRM3*	*ADCY5*	*DVL3*	*FAM38B*	*POLR2I*	*SOX10*	***KIAA1217***	*GRHPR*	***SUPV3L1***	*FN3KRP*

Table 4: *(Top 500 Positively Correlated Genes in Pons Continued)*

37	***MTP18***	***C20orf46***	*PPIE*	*PPAP2B*	***FBXW7***	*HNRPK*	*MGC3731*	*PEMT*	*KIF13B*	*RTKN*
38	*SERPINI1*	*MGC3207*	***CAPZA2***	*ASPA*	*NVL*	*DOLPP1*	*CRYAB*	*HPS5*	*AGPAT4*	***CLASP1***
39	*MAPRE1*	*ZNF277P*	*MAL*	*TMEM125*	***PSMC1***	*NUDT5*	*C18orf54*	*APOD*	*NKX2-2*	***CNOT4***
40	***TTC19***	*SFT2D3*	*TNRC5*	*EPB41L2*	*PIGO*	*HIP1R*	*TMEM165*	*GAL3ST1*	*KIAA0256*	***C6orf106***

Table 4: *(Top 500 Positively Correlated Genes in Pons Continued)*

41	*C3orf1*	*RHOG*	***KIAA0100***	*NAPE-PLD*	*APIP*	*FEZ1*	*HNRPDL*	*LIPT1*	*C14orf24*	*LOC732402*
42	*GPR37*	***POLR3A***	*POU3F2*	*TGFA*	***PLCB1***	*TTF2*	*RIPK2*	*C10orf39*	*PRRG1*	*TMEM42*
43	*RPLP0*	*DPP3*	*SGPL1*	*NPC1*	*STMN1*	*PAQR4*	***C14orf122***	*RPL18P13*	*FAM96A*	*NCAPD2*
44	*SLC35B2*	*LSM7*	*EFHD1*	*ACAA2*	*PPAP2C*	*CHMP2B*	***FBXO31***	*SAV1*	*SLC39A6*	*DPF2*
45	*STX16*	*EIF1*	***SYNJ1***	***FUNDC2***	*SPTLC1*	*SLCO1A2*	*SEC61B*	*ACBD5*	*ISOC1*	***DACH1***
46	*EI24*	***CCNB1***	***DDX28***	***PDE4A***	***SDAD1***	*AP3M1*	*C1orf19*	*ABTB2*	***MGC59937***	*HIATL2*
47	***DUSP3***	*KIF6*	*TMEM46*	*SLC13A3*	*COPE*	***GPR3***	*TMEM63A*	*C20orf149*	*PIGN*	*ARID1A*
48	*CKMT2*	*MGC16169*	*SYVN1*	*RELA*	*ATP5G2*	*ALS2CR2*	*FLJ14803*	*TMED4*	*EXOSC5*	***ADCY9***
49	***PJA2***	*TBC1D5*	*PIP5K2A*	*DDX5*	*ZFYVE26*	***C8orf72***	*SEMA4D*	***RIOK1***	***SNAP91***	***KRAS***
50	*RDX*	***SLC9A1***	*FKSG30*	*HPN*	*PHPT1*	*CUTC*	*ADC*	*PCM1*	*ZNF536*	***PEX26***
51	*CA2*									