

Table 1: Ontology for the positively correlated genes with the lowest p-values for expression correlations with COMT: Cerebellum

GOBPID	Pvalue	OddsRatio	ExpCount	Count	Size	Term
GO:0006629	0.00000015792103460	2.28	29.36	59	1227	lipid metabolic process
GO:0044255	0.00000022422977044	2.44	22.59	49	944	cellular lipid metabolic process
GO:0007272	0.00000031948504702	6.22	2.61	14	109	ensheathment of neurons
GO:0008366	0.00000031948504702	6.22	2.61	14	109	axon ensheathment
GO:0019752	0.00000041578487719	2.43	21.68	47	906	carboxylic acid metabolic process
GO:0014003	0.00000081681039242	13.34	0.79	8	33	oligodendrocyte development
GO:0042552	0.00000144491616187	5.89	2.54	13	106	myelination
GO:0006082	0.00000208371938457	2.24	24.39	49	1019	organic acid metabolic process
GO:0048709	0.00000233494633457	6.88	1.87	11	78	oligodendrocyte differentiation
GO:0043436	0.00000323688336645	2.21	24.05	48	1005	oxoacid metabolic process
GO:0022010	0.00001278036996766	22.98	0.34	5	14	central nervous system myelination
GO:0032291	0.00001278036996766	22.98	0.34	5	14	axon ensheathment in central nervous system
GO:0021782	0.00001429227815004	6.24	1.84	10	77	glial cell development
GO:0010001	0.00001549410834932	4.05	4.09	15	171	glial cell differentiation
GO:0044281	0.00001612211811175	1.81	45.88	74	1917	small molecule metabolic process
GO:0030258	0.00002424956793336	3.37	5.84	18	244	lipid modification
GO:0008610	0.00002970719911238	2.37	14.67	32	613	lipid biosynthetic process
GO:0055114	0.00003068351166092	2.15	20.29	40	848	oxidation-reduction process
GO:0006520	0.00004136843299036	2.92	7.83	21	327	cellular amino acid metabolic process
GO:0006631	0.00005398855621682	2.95	7.37	20	308	fatty acid metabolic process

GO:0044242	0.00005594537378602	3.80	4.04	14	169	cellular lipid catabolic process
GO:0046467	0.00005745473403691	4.34	3.06	12	128	membrane lipid biosynthetic process
GO:0016053	0.00005826525102849	3.02	6.82	19	285	organic acid biosynthetic process
GO:0046394	0.00005826525102849	3.02	6.82	19	285	carboxylic acid biosynthetic process
GO:0006643	0.00008053320114203	3.47	4.71	15	197	membrane lipid metabolic process
GO:0016192	0.00009494131352056	1.77	38.48	62	1608	vesicle-mediated transport
