

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

GOCCID	Pvalue	OddsRatio	ExpCount	Count	Size	Term
GO:0044444	0.00000000027766499	1.91	222.23	284	8065	cytoplasmic part
GO:0005737	0.00000000209666578	1.95	265.74	321	9644	cytoplasm
GO:0031982	0.00000000313936446	1.87	102.01	155	3702	vesicle
GO:0070062	0.00000000411454146	2.00	66.08	112	2398	extracellular exosome
GO:1903561	0.00000000632562457	1.98	66.57	112	2416	extracellular vesicle
GO:0043230	0.00000000647724089	1.98	66.60	112	2417	extracellular organelle
GO:0012505	0.00000001549831264	1.81	102.50	153	3720	endomembrane system
GO:0044446	0.00000002131313065	1.75	210.85	266	7652	intracellular organelle part
GO:0044422	0.00000003394273396	1.74	215.81	270	7832	organelle part
GO:0005789	0.00000006458091054	2.42	24.96	54	906	endoplasmic reticulum membrane
GO:0098827	0.00000007465965994	2.41	25.07	54	910	endoplasmic reticulum subcompartment
GO:0042175	0.00000013187610173	2.36	25.52	54	926	nuclear outer membrane-endoplasmic reticulum membrane network
GO:0043227	0.00000023406865356	1.83	288.69	334	10477	membrane-bounded organelle
GO:0005783	0.00000031085415984	2.02	42.46	76	1541	endoplasmic reticulum
GO:0043226	0.00000048747904384	1.89	309.74	351	11241	organelle
GO:0044432	0.00000175533487210	2.08	31.38	59	1139	endoplasmic reticulum part
GO:0043229	0.00000949720637245	1.66	288.14	327	10457	intracellular organelle
GO:0005615	0.00001134657913507	1.62	86.52	123	3140	extracellular space
GO:0005778	0.00001270307076196	7.36	1.46	9	53	peroxisomal membrane
GO:0031903	0.00001270307076196	7.36	1.46	9	53	microbody membrane

GO:0031984	0.00001845304199430	1.84	39.35	66	1428	organelle subcompartment
GO:0044424	0.00004205801161028	1.73	328.95	360	11938	intracellular part
GO:0044421	0.00006683221042644	1.54	91.59	125	3324	extracellular region part
GO:0044438	0.00008247138106691	5.00	2.26	10	82	microbody part
GO:0044439	0.00008247138106691	5.00	2.26	10	82	peroxisomal part
GO:0005777	0.00009207427793238	4.12	3.22	12	117	peroxisome
GO:0042579	0.00009207427793238	4.12	3.22	12	117	microbody

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