

GeDiPNet Cluster 518 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:23:14. · Rows: 15 · Generated: 2026-10-19 23:19:24

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
tetrahydrobiopterin biosynthetic process	GO:0006729	4	GCH1, SPR, QDPR, PTS	8	80	116.79	2.151e-8	3.432e-6
neuromuscular process controlling posture	GO:0050884	4	GCH1, PRRT2, GLRA1, PNKD	15	80	62.29	4.101e-7	4.121e-5
autophagy	GO:0006914	9	VPS16, VPS11, VPS41, ATP13A2, PSEN1, CHMP2B, WDR45, PINK1, PRKN	221	80	9.51	4.307e-7	4.295e-5
autophagy of mitochondrion	GO:0000422	4	FBXO7, WDR45, PINK1, PRKN	25	80	37.37	3.679e-6	2.473e-4
dopamine biosynthetic process	GO:0042416	3	GCH1, TH, DDC	9	80	77.86	6.230e-6	3.772e-4
regulation of SNARE complex assembly	GO:0035542	3	VPS16, VPS11, VPS41	12	80	58.40	1.617e-5	7.886e-4
amino acid metabolic process	GO:0006520	4	DDC, QDPR, ASL, PTS	37	80	25.25	1.847e-5	8.719e-4
regulation of respiratory gaseous exchange by nervous system process	GO:0002087	3	GLRA1, GSX2, ATP1A2	13	80	53.90	2.095e-5	9.593e-4
regulation of resting membrane potential	GO:0060075	3	ATP1A3, PSEN1, TREM2	13	80	53.90	2.095e-5	9.593e-4
positive regulation of ATP biosynthetic process	GO:2001171	3	PINK1, TREM2, PRKN	14	80	50.05	2.658e-5	1.141e-3
negative regulation of oxidative stress-induced neuron intrinsic apoptotic signaling pathway	GO:1903377	3	FBXO7, PINK1, PRKN	14	80	50.05	2.658e-5	1.141e-3
endosomal vesicle fusion	GO:0034058	3	VPS16, VPS11, VPS41	15	80	46.72	3.312e-5	1.352e-3
pteridine-containing compound metabolic process	GO:0042558	2	GCH1, QDPR	3	80	155.73	5.415e-5	1.958e-3
regulation of synaptic vesicle transport	GO:1902803	2	PINK1, PRKN	3	80	155.73	5.415e-5	1.958e-3
mitochondrion to lysosome vesicle-mediated transport	GO:0099074	2	PINK1, PRKN	3	80	155.73	5.415e-5	1.958e-3