

GeDiPNet Cluster 79 -- 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: 2026-10-08 03:23:04. · Rows: 15 · Generated: 2026-10-08 06:13:34

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
mitochondrial electron transport, succinate to ubiquinone	GO:0006121	5	SDHD, SDHA, SDHB, SDHC, SDHAF2	5	38	491.76	2.645e-14	1.554e-11
tricarboxylic acid cycle	GO:0006099	7	SDHD, SDHA, SDHB, SDHC, SDHAF2, DLST, FH	33	38	104.31	3.292e-13	1.623e-10
dopamine catabolic process	GO:0042420	4	COMT, DBH, MAOA, MAOB	11	38	178.82	4.747e-9	8.663e-7
catecholamine biosynthetic process	GO:0042423	3	DDC, DBH, TH	6	38	245.88	1.545e-7	1.770e-5
catecholamine metabolic process	GO:0006584	3	DDC, COMT, MAOA	9	38	163.92	6.462e-7	5.843e-5
proton motive force-driven mitochondrial ATP synthesis	GO:0042776	4	SDHD, SDHA, SDHB, SDHC	64	38	30.74	8.461e-6	4.675e-4
serotonin biosynthetic process	GO:0042427	2	DDC, TH	4	38	245.88	2.410e-5	1.047e-3
phosphatidylinositol 3-kinase/protein kinase B signal transduction	GO:0043491	4	AKT1, PIK3CA, PTEN, NF1	92	38	21.38	3.572e-5	1.421e-3
retrograde neuronal dense core vesicle transport	GO:1990049	2	KIF5B, KIF1B	5	38	196.71	4.011e-5	1.552e-3
succinate metabolic process	GO:0006105	2	SDHA, SDHB	5	38	196.71	4.011e-5	1.552e-3
fear response	GO:0042596	2	COMT, DBH	8	38	122.94	1.119e-4	3.353e-3
dopamine biosynthetic process	GO:0042416	2	DDC, TH	9	38	109.28	1.437e-4	4.049e-3
neuron-neuron synaptic transmission	GO:0007270	2	PTEN, KIF1B	9	38	109.28	1.437e-4	4.049e-3
norepinephrine biosynthetic process	GO:0042421	2	DBH, TH	9	38	109.28	1.437e-4	4.049e-3
negative regulation of epithelial to mesenchymal transition	GO:0010719	3	PTEN, USF3, SDHAF2	53	38	27.84	1.694e-4	4.578e-3