

GeDiPNet Cluster 26 -- 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: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 08:23:49

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
mitochondrial DNA replication	GO:0006264	7	POLG, POLG2, POLRMT, RRM2B, TWNK, RRM1, DNA2	11	139	85.55	3.483e-13	1.743e-10
proton motive force-driven mitochondrial ATP synthesis	GO:0042776	11	ATP6, ATP8, ND1, ND2, ND3, ND4, ND4L, ND5, NDUFS2, ND6, NDUFS1	64	139	23.11	1.372e-12	6.130e-10
proton transmembrane transport	GO:1902600	15	SLC25A4, ATP6, ATP8, SLC2A10, COX1, COX2, COX3, ND1, ND2, ND3, ND4L, SLC25A22	181	139	11.14	5.930e-12	2.292e-9
mitochondrial respiratory chain complex I assembly	GO:0032981	9	ND1, ND2, ND4, ND5, FOXRED1, NDUFS2, ND6, NDUFAF5, NDUFS1	40	139	30.25	1.207e-11	4.378e-9
mitochondrial electron transport, NADH to ubiquinone	GO:0006120	9	ND1, ND2, ND3, ND4, ND4L, ND5, NDUFS2, ND6, NDUFS1	47	139	25.74	5.754e-11	1.747e-8
aerobic respiration	GO:0009060	10	COX1, ND1, ND2, ND3, ND4, ND4L, ND5, NDUFS2, ND6, NDUFS1	68	139	19.77	7.529e-11	2.210e-8
ATP synthesis coupled electron transport	GO:0042773	5	COX2, ND4, ND4L, ND5, NDUFS1	7	139	96.03	4.396e-10	1.070e-7
cilium assembly	GO:0060271	12	NOTCH1, FLNA, USP9X, CIBAR1, AHI1, BBIP1, CEP290, CFAP20, IFT122, IFT88, INPP5E, KIAA0586	237	139	6.81	2.113e-7	2.274e-5
visual perception	GO:0007601	11	LRAT, RDH12, RP1, RPE65, RPGRIP1, BEST1, EYS, PDE6B, RHO, USH2A, BBS10	215	139	6.88	6.243e-7	5.640e-5
response to copper ion	GO:0046688	4	IL1A, SOD1, COX1, CYTB	12	139	44.81	1.386e-6	1.074e-4
electron transport coupled proton transport	GO:0015990	3	ND4, ND5, CYTB	4	139	100.83	1.602e-6	1.207e-4
response to ethanol	GO:0045471	8	SOD1, COX2, ND4, CYTB, GRIN2B, TNF, CSF3, NTRK3	110	139	9.78	1.657e-6	1.241e-4
retina development in camera-type eye	GO:0060041	7	RRM1, RP1, RPGRIP1, PDE6B, RHO, SCAPER, BBS10	85	139	11.07	3.295e-6	2.155e-4
cell projection organization	GO:0030030	10	FLNA, PRICKLE3, RP1, CIBAR1, AHI1, BBIP1, CEP290, IFT122, IFT88, KIAA0586	214	139	6.28	4.634e-6	2.826e-4
response to hypoxia	GO:0001666	9	SOD2, COX1, COX2, ND1, ND2, ND4, ND5, CYTB, TNF	176	139	6.87	6.820e-6	3.842e-4