

GeDiPNet Cluster 424 -- 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 00:28:32

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
mitochondrial respiratory chain complex I assembly	GO:0032981	3	ND1, NDUFAF6, NDUFS4	40	22	63.71	1.360e-5	6.631e-4
mitochondrial electron transport, NADH to ubiquinone	GO:0006120	3	ND1, NDUFB3, NDUFS4	47	22	54.22	2.221e-5	9.746e-4
proton motive force-driven mitochondrial ATP synthesis	GO:0042776	3	ND1, NDUFB3, NDUFS4	64	22	39.82	5.632e-5	1.969e-3
aerobic respiration	GO:0009060	3	ND1, NDUFB3, NDUFS4	68	22	37.47	6.754e-5	2.253e-3
neuromuscular process controlling posture	GO:0050884	2	MECP2, SCN1A	15	22	113.25	1.376e-4	3.832e-3
electron transport chain	GO:0022900	2	NDUFB3, NDUFS4	16	22	106.18	1.572e-4	4.247e-3
cardiac muscle cell action potential involved in contraction	GO:0086002	2	SCN8A, SCN1A	24	22	70.78	3.595e-4	7.584e-3
determination of adult lifespan	GO:0008340	2	SGSH, SCN1A	38	22	44.71	9.065e-4	1.420e-2
associative learning	GO:0008306	2	MECP2, CHRN2	40	22	42.47	1.004e-3	1.512e-2
response to hypoxia	GO:0001666	3	MECP2, ND1, CHRN2	176	22	14.48	1.109e-3	1.611e-2
lateral geniculate nucleus development	GO:0021771	1	CHRN2	1	22	849.41	1.177e-3	1.664e-2
regulation of circadian sleep/wake cycle, REM sleep	GO:0042320	1	CHRN2	1	22	849.41	1.177e-3	1.664e-2
trans-synaptic signaling by BDNF	GO:0099191	1	MECP2	1	22	849.41	1.177e-3	1.664e-2
proton transmembrane transport	GO:1902600	3	ND1, NDUFB3, NDUFS4	181	22	14.08	1.202e-3	1.690e-2
negative regulation of viral genome replication	GO:0045071	2	EIF2AK2, IFIH1	44	22	38.61	1.215e-3	1.704e-2