

GeDiPNet Cluster 144 -- 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 06:31:33

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
microtubule cytoskeleton organization	GO:0000226	13	TUBG1, TUBB2B, TUBB3, KIF2A, TUBB2A, TUBB, TUBA1A, TUBA1B, APC2, CAMSAP1, TUBGCP2, KIFBP	149	52	31.35	1.503e-16	1.369e-13
microtubule-based process	GO:0007017	7	TUBG1, TUBB2B, TUBB3, TUBB2A, TUBB, TUBA1A, TUBA1B	46	52	54.69	4.182e-11	1.311e-8
mitotic cell cycle	GO:0000278	9	TUBG1, TUBB2B, TUBB3, TUBB2A, TUBB, TUBA1A, TUBA1B, TUBGCP2, TBCD	142	52	22.78	1.824e-10	4.926e-8
neuron migration	GO:0001764	6	TUBB2B, TUBB2A, TUBA1A, MYH10, TUBGCP2, DCX	132	52	16.33	1.728e-6	1.282e-4
microtubule-based movement	GO:0007018	5	KIF26A, KIF5C, KIF2A, KIF21A, DYNC1H1	87	52	20.65	4.260e-6	2.640e-4
cerebral cortex development	GO:0021987	5	KIF26A, TUBB2B, TUBB2A, TUBA1A, WDR62	88	52	20.42	4.507e-6	2.761e-4
brain development	GO:0007420	7	GRHL2, MYH10, NES, ADGRG1, TUBGCP2, SLC1A1, DHX37	244	52	10.31	4.815e-6	2.912e-4
cytoskeleton-dependent intracellular transport	GO:0030705	3	TUBB, TUBA1A, TUBA1B	14	52	77.01	7.239e-6	4.034e-4
mitotic spindle organization	GO:0007052	4	TUBG1, KIF2A, DYNC1H1, WDR62	58	52	24.78	2.024e-5	9.062e-4
insulin receptor signaling pathway	GO:0008286	4	HRAS, AKT3, MTOR, PIK3CA	80	52	17.97	7.211e-5	2.371e-3
neuron apoptotic process	GO:0051402	4	TUBA1A, HRAS, NES, SLC1A1	98	52	14.67	1.587e-4	4.280e-3
neurogenesis	GO:0022008	4	TUBA1A, FGF21, SLC1A1, WDR62	102	52	14.09	1.852e-4	4.793e-3
cytoplasmic microtubule organization	GO:0031122	3	TUBG1, DYNC1H1, TUBGCP2	46	52	23.44	2.835e-4	6.456e-3
nervous system development	GO:0007399	8	TUBB2B, KIF2A, NES, APC2, ADGRG1, KIFBP, WDR62, DCX	631	52	4.56	3.275e-4	7.126e-3
intracellular mRNA localization	GO:0008298	2	KIF5C, METTL1	10	52	71.87	3.369e-4	7.270e-3