

GeDiPNet Cluster 331 -- 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 11:01:18

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
neural crest cell migration	GO:0001755	11	EDN3, GDNF, RET, EDNRB, NRTN, SEMA3C, SEMA3D, SHH, SMO, SOX10, ZEB2	47	101	43.30	9.738e-16	7.570e-13
enteric nervous system development	GO:0048484	5	GDNF, PHOX2B, RET, EDNRB, SOX10	12	101	77.09	3.208e-9	6.268e-7
peripheral nervous system development	GO:0007422	6	GDNF, EDNRB, ERBB2, ERBB3, NRG1, SOX10	26	101	42.70	4.525e-9	8.523e-7
neuron differentiation	GO:0030182	11	DIAPH3, EDN3, ASCL1, GDNF, PHOX2B, RET, ERBB2, ERBB3, GFRA1, SHH, WNT8B	222	101	9.17	3.234e-8	4.684e-6
glial cell-derived neurotrophic factor receptor signaling pathway	GO:0035860	4	GDNF, RET, GFRA1, NRTN	11	101	67.28	2.576e-7	2.684e-5
nervous system development	GO:0007399	16	ASCL1, BDNF, GDNF, LBX1, RET, DSCAM, EDNRB, ERBB2, GFRA1, NRG1, NRG3, NRTN	631	101	4.69	2.632e-7	2.730e-5
cell development	GO:0048468	5	PHOX2B, AXIN2, NOTCH4, SHH, SMO	43	101	21.51	3.414e-6	2.213e-4
axon guidance	GO:0007411	8	EDN3, BDNF, RET, DSCAM, ECE1, SEMA3C, SEMA3D, SHH	192	101	7.71	9.595e-6	5.051e-4
ERBB2-ERBB3 signaling pathway	GO:0038133	3	ERBB2, ERBB3, NRG1	9	101	61.67	1.257e-5	6.249e-4
cell population proliferation	GO:0008283	9	EDN3, IL18, LBX1, PHOX2B, AXIN2, ERBB2, NRG1, SHH, SMO	263	101	6.33	1.277e-5	6.318e-4
posterior midgut development	GO:0007497	2	RET, EDNRB	2	101	185.02	2.892e-5	1.187e-3
cell surface receptor protein tyrosine kinase signaling pathway	GO:0007169	6	BDNF, RET, ERBB2, ERBB3, NRG1, NRTN	120	101	9.25	4.767e-5	1.734e-3
embryonic organ development	GO:0048568	4	GDNF, SHH, SMO, UTP25	42	101	17.62	7.684e-5	2.491e-3
sympathetic nervous system development	GO:0048485	3	ASCL1, GDNF, PHOX2B	17	101	32.65	9.862e-5	2.987e-3
oligodendrocyte differentiation	GO:0048709	4	ASCL1, ERBB2, SHH, SOX10	45	101	16.45	1.010e-4	3.046e-3