

GeDiPNet Cluster 58 -- 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 05:31:21

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
pituitary gland development	GO:0021983	8	NR0B1, PROP1, HESX1, LHX3, SOX3, GLI2, PITX2, TBX19	30	164	30.39	1.472e-10	4.065e-8
axon guidance	GO:0007411	14	NOTCH3, OPHN1, ANOS1, FEZF1, FLRT3, PLXNA3, SEMA3A, SEMA3E, SEMA3F, ROBO1, DCC, OTX2	192	164	8.31	1.559e-9	3.330e-7
negative chemotaxis	GO:0050919	6	FLRT3, PLXNA3, SEMA3A, SEMA3E, SEMA3F, SEMA5A	40	164	17.09	1.250e-6	9.917e-5
motor neuron axon guidance	GO:0008045	5	FGF8, PLXNA3, SEMA3A, LHX3, LHX4	24	164	23.74	1.819e-6	1.336e-4
hormone metabolic process	GO:0042445	5	AKR1C4, CYP17A1, LEP, GHRHR, GHR	25	164	22.79	2.258e-6	1.587e-4
somatotropin secreting cell differentiation	GO:0060126	3	PROP1, LHX3, PITX2	4	164	85.46	2.638e-6	1.792e-4
female gonad development	GO:0008585	5	CYP19A1, BRCA2, FANCA, LHX9, LHCGR	27	164	21.10	3.382e-6	2.198e-4
positive regulation of MAPK cascade	GO:0043410	11	AR, LEP, FGF17, FGF8, FGFR1, GH1, ROBO1, GHR, CDON, FGFR3, RAF1	224	164	5.60	4.735e-6	2.876e-4
positive regulation of cell differentiation	GO:0045597	7	AR, SERPINF2, FGF8, FGFR1, GHR, ARID1B, SMARCA2	83	164	9.61	8.367e-6	4.542e-4
male gonad development	GO:0008584	8	AR, LHB, NR0B1, SRD5A2, NHLH2, FANCA, LHX9, LHCGR	117	164	7.79	8.990e-6	4.813e-4
nervous system development	GO:0007399	18	VPS13B, NR2F6, OPHN1, PROP1, ZC4H2, AXL, FEZF1, FGF17, NDNF, SEMA3A, SEMA3E, SOX11	631	164	3.25	1.134e-5	5.739e-4
trigeminal nerve structural organization	GO:0021637	3	PLXNA3, SEMA3A, SEMA3F	6	164	56.97	1.302e-5	6.420e-4
gonadotrophin-releasing hormone neuronal migration to the hypothalamus	GO:0021828	3	NDNF, PLXNA3, SEMA3E	6	164	56.97	1.302e-5	6.420e-4
cell maturation	GO:0048469	5	AXL, BTK, FGFR1, GHRHR, SOX10	37	164	15.40	1.701e-5	7.908e-4
mammary gland development	GO:0030879	5	CYP19A1, PRL, GHRHR, GLI2, PTCH1	37	164	15.40	1.701e-5	7.908e-4