

GeDiPNet Cluster 273 -- 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 00:30:38

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	6	GLI2, HESX1, PROP1, LHX3, SOX2, SOX3	30	20	186.87	3.835e-13	1.903e-10
regulation of DNA-templated transcription	GO:0006355	13	FOXA2, GLI2, HESX1, LHX4, OTX2, POU1F1, PROP1, TCF7L1, LHX3, ARNT2, SOX2, SOX3	1454	20	8.35	1.680e-10	4.592e-8
positive regulation of transcription by RNA polymerase II	GO:0045944	11	FOXA2, GLI2, LHX4, OTX2, POU1F1, PROP1, LHX3, ARNT2, SOX2, SOX3, SHH	1208	20	8.51	7.694e-9	1.364e-6
positive regulation of DNA-templated transcription	GO:0045893	9	FOXA2, GLI2, OTX2, POU1F1, LHX3, ARNT2, SOX2, ARID1A, SHH	778	20	10.81	3.988e-8	5.598e-6
adenohypophysis development	GO:0021984	3	POU1F1, PROP1, SOX2	9	20	311.45	8.770e-8	1.078e-5
regulation of transcription by RNA polymerase II	GO:0006357	11	FOXA2, GLI2, HESX1, LHX4, OTX2, POU1F1, PROP1, TCF7L1, LHX3, ARNT2, ARID1A	1602	20	6.42	1.442e-7	1.648e-5
brain development	GO:0007420	6	HESX1, ROBO1, ARNT2, FGFR1, SOX2, SOX3	244	20	22.98	1.550e-7	1.749e-5
tube development	GO:0035295	3	GLI2, ROBO1, SHH	13	20	215.62	2.978e-7	3.029e-5
negative regulation of transcription by RNA polymerase II	GO:0000122	9	FOXA2, GLI2, HESX1, POU1F1, PROP1, FGFR1, SOX2, SOX3, SHH	1002	20	8.39	3.473e-7	3.435e-5
medial motor column neuron differentiation	GO:0021526	2	LHX4, LHX3	2	20	934.35	1.088e-6	8.873e-5
forebrain development	GO:0030900	4	HESX1, OTX2, SOX2, SHH	76	20	49.18	1.165e-6	9.371e-5
neuron differentiation	GO:0030182	5	LHX4, LHX3, SOX2, SOX3, SHH	222	20	21.04	3.032e-6	2.012e-4
ventral midline development	GO:0007418	2	GLI2, SHH	3	20	622.90	3.263e-6	2.137e-4
dopaminergic neuron differentiation	GO:0071542	3	FOXA2, OTX2, SHH	30	20	93.44	4.179e-6	2.598e-4
lung development	GO:0030324	4	GLI2, LHX3, FGFR1, SHH	108	20	34.61	4.760e-6	2.888e-4