

GeDiPNet Cluster 481 -- 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: 2026-10-20 03:23:14. · Rows: 15 · Generated: 2026-10-20 00:00:30

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	22	169.88	7.366e-13	3.558e-10
regulation of DNA-templated transcription	GO:0006355	13	FOXA2, GLI2, HESX1, LHX4, OTX2, POU1F1, PROP1, TCF7L1, LHX3, ARNT2, SOX2, SOX3	1454	22	7.59	9.296e-10	2.176e-7
positive regulation of transcription by RNA polymerase II	GO:0045944	11	FOXA2, GLI2, LHX4, OTX2, POU1F1, PROP1, LHX3, ARNT2, SOX2, SOX3, SHH	1208	22	7.73	2.864e-8	4.419e-6
regulation of transcription by RNA polymerase II	GO:0006357	12	FOXA2, GLI2, HESX1, LHX4, OTX2, POU1F1, PROP1, TCF7L1, LHX3, ARNT2, ARID1A, RAD21	1602	22	6.36	4.336e-8	6.289e-6
positive regulation of DNA-templated transcription	GO:0045893	9	FOXA2, GLI2, OTX2, POU1F1, LHX3, ARNT2, SOX2, ARID1A, SHH	778	22	9.83	1.096e-7	1.368e-5
adenohypophysis development	GO:0021984	3	POU1F1, PROP1, SOX2	9	22	283.14	1.184e-7	1.464e-5
brain development	GO:0007420	6	HESX1, ROBO1, ARNT2, FGFR1, SOX2, SOX3	244	22	20.89	2.919e-7	3.112e-5
tube development	GO:0035295	3	GLI2, ROBO1, SHH	13	22	196.02	4.020e-7	4.050e-5
inner ear development	GO:0048839	4	LHX3, SOX2, SHH, KCNQ1	54	22	62.92	4.382e-7	4.357e-5
negative regulation of transcription by RNA polymerase II	GO:0000122	9	FOXA2, GLI2, HESX1, POU1F1, PROP1, FGFR1, SOX2, SOX3, SHH	1002	22	7.63	9.329e-7	8.133e-5
medial motor column neuron differentiation	GO:0021526	2	LHX4, LHX3	2	22	849.41	1.323e-6	1.082e-4
forebrain development	GO:0030900	4	HESX1, OTX2, SOX2, SHH	76	22	44.71	1.748e-6	1.360e-4
ventral midline development	GO:0007418	2	GLI2, SHH	3	22	566.27	3.966e-6	2.629e-4
neuron differentiation	GO:0030182	5	LHX4, LHX3, SOX2, SOX3, SHH	222	22	19.13	5.052e-6	3.201e-4
dopaminergic neuron differentiation	GO:0071542	3	FOXA2, OTX2, SHH	30	22	84.94	5.633e-6	3.481e-4