

GeDiPNet Cluster 556 -- 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: 2026-10-19 23:18:41

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
positive regulation of transcription by RNA polymerase II	GO:0045944	10	CDC73, PTEN, CTNNB1, KMT2C, ESR1, ATM, JAK2, HRAS, TP53, AR	1208	16	9.67	6.875e-9	1.275e-6
negative regulation of cell population proliferation	GO:0008285	7	CDC73, PTEN, CTNNB1, JAK2, HRAS, TP53, AR	444	16	18.41	3.876e-8	5.681e-6
chromatin remodeling	GO:0006338	6	KMT2C, ESR1, KDM6A, ATM, JAK2, ARID1A	320	16	21.90	1.668e-7	1.948e-5
negative regulation of neuron apoptotic process	GO:0043524	5	KRAS, PIK3CA, CTNNB1, JAK2, HRAS	160	16	36.50	1.749e-7	2.022e-5
negative regulation of gene expression	GO:0010629	6	PIK3CA, CTNNB1, ESR1, HRAS, TP53, DICER1	339	16	20.67	2.343e-7	2.579e-5
positive regulation of cell differentiation	GO:0045597	4	CTNNB1, JAK2, ARID1A, AR	83	16	56.29	6.322e-7	5.911e-5
neuron apoptotic process	GO:0051402	4	KRAS, ATM, HRAS, TP53	98	16	47.67	1.233e-6	1.020e-4
cellular response to gamma radiation	GO:0071480	3	ATM, HRAS, TP53	28	16	125.14	1.665e-6	1.309e-4
positive regulation of epithelial cell proliferation involved in prostate gland development	GO:0060769	2	CTNNB1, AR	3	16	778.63	2.061e-6	1.551e-4
positive regulation of gene expression	GO:0010628	6	KRAS, CTNNB1, ATM, HRAS, TP53, AR	504	16	13.90	2.377e-6	1.747e-4
heart development	GO:0007507	5	PTEN, CTNNB1, KDM6A, ATM, TP53	273	16	21.39	2.456e-6	1.793e-4
positive regulation of cell population proliferation	GO:0008284	6	PTEN, CTNNB1, JAK2, HRAS, PDGFRA, AR	532	16	13.17	3.250e-6	2.235e-4
fibroblast proliferation	GO:0048144	3	ESR1, HRAS, TP53	42	16	83.42	5.793e-6	3.557e-4
MAPK cascade	GO:0000165	4	KRAS, CTNNB1, HRAS, AR	147	16	31.78	6.216e-6	3.766e-4
epithelial cell differentiation involved in prostate gland development	GO:0060742	2	CTNNB1, AR	5	16	467.18	6.863e-6	4.055e-4