

GeDiPNet Cluster 454 -- 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 23:18:53

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
response to xenobiotic stimulus	GO:0009410	7	TGFB1, CALR, EMX1, GRIA1, NPAS2, SST, PTCH1	248	39	13.52	7.134e-7	6.525e-5
response to estradiol	GO:0032355	5	TGFB1, CALR, GRIA1, PRKCA, PTCH1	84	39	28.52	8.307e-7	7.370e-5
regulation of cell population proliferation	GO:0042127	6	PLA2G4A, NOS2, PTGS2, TGFB1, SAT1, PTCH1	201	39	14.30	3.489e-6	2.370e-4
positive regulation of exit from mitosis	GO:0031536	2	TGFB1, NEUROG1	4	39	239.58	2.540e-5	1.104e-3
prostaglandin secretion	GO:0032310	2	NOS2, PTGS2	5	39	191.66	4.227e-5	1.623e-3
mammary gland development	GO:0030879	3	TGFB1, CSMD1, PTCH1	37	39	38.85	6.217e-5	2.177e-3
conditioned place preference	GO:1990708	2	CSMD1, GRIA1	6	39	159.72	6.333e-5	2.205e-3
mammary gland duct morphogenesis	GO:0060603	2	CSMD1, PTCH1	8	39	119.79	1.179e-4	3.483e-3
negative regulation of glial cell apoptotic process	GO:0034351	2	PRKCA, RAD21	9	39	106.48	1.514e-4	4.173e-3
positive regulation of smooth muscle cell proliferation	GO:0048661	3	TGFB1, PDGFRB, PRKCA	52	39	27.64	1.730e-4	4.580e-3
regulation of postsynaptic membrane potential	GO:0060078	3	GRIA1, GABRA4, GABRB1	59	39	24.36	2.520e-4	5.984e-3
angiogenesis	GO:0001525	5	PDGFRB, PRKCA, SAT1, NRXN3, STAB2	284	39	8.44	2.952e-4	6.700e-3
retina vasculature development in camera-type eye	GO:0061298	2	TGFB1, PDGFRB	15	39	63.89	4.381e-4	8.683e-3
hyaluronan catabolic process	GO:0030214	2	TGFB1, STAB2	16	39	59.89	5.000e-4	9.484e-3
prostaglandin biosynthetic process	GO:0001516	2	PLA2G4A, PTGS2	17	39	56.37	5.659e-4	1.031e-2