

GeDiPNet Cluster 453 -- 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 23:18:32

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
pulmonary valve morphogenesis	GO:0003184	2	ROBO1, SMAD2	18	16	129.77	1.043e-4	3.192e-3
SMAD protein signal transduction	GO:0060395	2	SMAD2, ZMIZ1	25	16	93.44	2.038e-4	5.159e-3
outflow tract septum morphogenesis	GO:0003148	2	MSX2, ROBO1	28	16	83.42	2.565e-4	6.058e-3
developmental growth	GO:0048589	2	SMAD2, ZMIZ1	30	16	77.86	2.948e-4	6.695e-3
aortic valve morphogenesis	GO:0003180	2	ROBO1, SMAD2	37	16	63.13	4.498e-4	8.846e-3
positive regulation of BMP signaling pathway	GO:0030513	2	MSX2, SMAD2	40	16	58.40	5.260e-4	9.864e-3
positive regulation of Notch signaling pathway	GO:0045747	2	ROBO1, ZMIZ1	50	16	46.72	8.220e-4	1.307e-2
synchronous neurotransmitter secretion	GO:0071911	1	SYT1	1	16	1167.94	8.562e-4	1.331e-2
fast, calcium ion-dependent exocytosis of neurotransmitter	GO:0098746	1	SYT1	1	16	1167.94	8.562e-4	1.331e-2
brain development	GO:0007420	3	DHX37, MACROD2, ROBO1	244	16	14.36	1.086e-3	1.527e-2
cell surface receptor signaling pathway involved in heart development	GO:0061311	1	MSX2	2	16	583.97	1.712e-3	1.958e-2
chemorepulsion involved in postnatal olfactory bulb interneuron migration	GO:0021836	1	ROBO1	2	16	583.97	1.712e-3	1.958e-2
pyramidal neuron migration to cerebral cortex	GO:0021852	1	ZMIZ1	3	16	389.31	2.567e-3	2.402e-2
frontal suture morphogenesis	GO:0060364	1	MSX2	3	16	389.31	2.567e-3	2.402e-2
purine nucleoside metabolic process	GO:0042278	1	MACROD2	3	16	389.31	2.567e-3	2.402e-2