

GeDiPNet Cluster 160 -- 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 06:31:47

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
visual perception	GO:0007601	23	CABP4, CACNA1F, GNAT1, GPR179, GRM6, LRIT3, NYX, PDE6B, RHO, SLC24A1, TRPM1, ABCA4	215	38	52.61	1.004e-35	7.803e-32
G protein-coupled opsin signaling pathway	GO:0016056	4	GNAT1, RHO, GRK1, SAG	5	38	393.41	7.256e-11	2.144e-8
detection of light stimulus involved in visual perception	GO:0050908	5	CACNA1F, GNAT1, GRM6, REEP6, CRB1	24	38	102.45	1.093e-9	2.425e-7
phototransduction, visible light	GO:0007603	4	GNAT1, PDE6B, RHO, ABCA4	13	38	151.31	1.026e-8	1.748e-6
retina development in camera-type eye	GO:0060041	6	GNAT1, GRM6, PDE6B, RHO, NR2E3, CRB1	85	38	34.71	1.819e-8	2.871e-6
photoreceptor cell maintenance	GO:0045494	5	RHO, ABCA4, USH2A, SPATA7, CRB1	45	38	54.64	3.046e-8	4.449e-6
detection of light stimulus	GO:0009583	3	GNAT1, PDE6B, RHO	5	38	295.06	7.736e-8	9.703e-6
eye photoreceptor cell development	GO:0042462	4	GNAT1, RPGR, NR2E3, CRB1	21	38	93.67	8.485e-8	1.048e-5
calcium ion import across plasma membrane	GO:0098703	4	CACNA1F, SLC24A1, TRPM1, TRPV3	28	38	70.25	2.873e-7	2.942e-5
response to light stimulus	GO:0009416	4	GNAT1, LRIT3, RHO, GRK1	28	38	70.25	2.873e-7	2.942e-5
phototransduction	GO:0007602	4	CABP4, GNAT1, RHO, NR2E3	34	38	57.85	6.451e-7	5.798e-5
regulation of opsin-mediated signaling pathway	GO:0022400	3	GNAT1, GRK1, GUCY2D	10	38	147.53	9.218e-7	7.770e-5
retinoid metabolic process	GO:0001523	4	ABCA4, RBP3, RDH5, LRAT	38	38	51.76	1.021e-6	8.450e-5
response to light intensity	GO:0009642	3	GNAT1, RHO, SLC24A1	11	38	134.12	1.266e-6	1.002e-4
sensory perception of light stimulus	GO:0050953	3	GRM6, RHO, USH2A	13	38	113.48	2.188e-6	1.546e-4