

GeDiPNet Cluster 40 -- 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: 2026-10-08 03:23:04. · Rows: 15 · Generated: 2026-10-08 06:13:27

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	12	GUCA1A, GUCY2D, PRPH2, EYS, CHM, CYP4V2, BEST1, PDE6H, ROM1, RDH5, RHO, RLBP1	215	18	57.94	6.902e-20	1.076e-16
detection of light stimulus involved in visual perception	GO:0050908	5	PRPH2, EYS, BEST1, CACNA2D4, ROM1	24	18	216.28	1.898e-11	6.496e-9
photoreceptor cell outer segment organization	GO:0035845	3	PRPH2, TOPORS, ROM1	15	18	207.63	3.390e-7	3.409e-5
retina development in camera-type eye	GO:0060041	4	PRPH2, TTLL5, ROM1, RHO	85	18	48.85	1.162e-6	9.460e-5
protein heterooligomerization	GO:0051291	2	PRPH2, ROM1	15	18	138.42	9.133e-5	2.893e-3
protein homooligomerization	GO:0051260	3	PRPH2, KCNV2, ROM1	130	18	23.96	2.487e-4	5.988e-3
phototransduction	GO:0007602	2	GUCA1A, RHO	34	18	61.07	4.827e-4	9.513e-3
retinoid metabolic process	GO:0001523	2	CYP4V2, RDH5	38	18	54.64	6.035e-4	1.109e-2
response to low light intensity stimulus	GO:0009645	1	PRPH2	1	18	1038.17	9.632e-4	1.501e-2
pigment granule maturation	GO:0048757	1	CD63	1	18	1038.17	9.632e-4	1.501e-2
pigment cell differentiation	GO:0050931	1	CD63	1	18	1038.17	9.632e-4	1.501e-2
gamma-aminobutyric acid secretion, neurotransmission	GO:0061534	1	BEST1	2	18	519.08	1.926e-3	2.259e-2
rod bipolar cell differentiation	GO:1904389	1	RHO	2	18	519.08	1.926e-3	2.259e-2
thermotaxis	GO:0043052	1	RHO	2	18	519.08	1.926e-3	2.259e-2
positive regulation of guanylate cyclase activity	GO:0031284	1	GUCA1A	2	18	519.08	1.926e-3	2.259e-2