

GeDiPNet Cluster 69 -- 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 15:21:38

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	9	GUCA1A, GUCY2D, PRPH2, EYS, CHM, CYP4V2, BEST1, PDE6H, ROM1	215	14	55.87	5.689e-15	3.864e-12
detection of light stimulus involved in visual perception	GO:0050908	5	PRPH2, EYS, BEST1, CACNA2D4, ROM1	24	14	278.08	4.449e-12	1.759e-9
photoreceptor cell outer segment organization	GO:0035845	3	PRPH2, TOPORS, ROM1	15	14	266.96	1.515e-7	1.718e-5
retina development in camera-type eye	GO:0060041	3	PRPH2, TTLL5, ROM1	85	14	47.11	3.189e-5	1.280e-3
protein heterooligomerization	GO:0051291	2	PRPH2, ROM1	15	14	177.97	5.442e-5	1.918e-3
protein homooligomerization	GO:0051260	3	PRPH2, KCNV2, ROM1	130	14	30.80	1.132e-4	3.319e-3
response to low light intensity stimulus	GO:0009645	1	PRPH2	1	14	1334.79	7.492e-4	1.251e-2
gamma-aminobutyric acid secretion, neurotransmission	GO:0061534	1	BEST1	2	14	667.39	1.498e-3	1.912e-2
positive regulation of guanylate cyclase activity	GO:0031284	1	GUCA1A	2	14	667.39	1.498e-3	1.912e-2
monoatomic ion transmembrane transport	GO:0034220	3	BEST1, KCNV2, CACNA2D4	404	14	9.91	3.057e-3	2.853e-2
camera-type eye photoreceptor cell differentiation	GO:0060219	1	ROM1	5	14	266.96	3.741e-3	3.178e-2
fatty acid omega-oxidation	GO:0010430	1	CYP4V2	6	14	222.46	4.487e-3	3.471e-2
protein geranylgeranylation	GO:0018344	1	CHM	6	14	222.46	4.487e-3	3.471e-2
positive regulation of cGMP-mediated signaling	GO:0010753	1	GUCA1A	7	14	190.68	5.233e-3	3.764e-2
protein localization to photoreceptor outer segment	GO:1903546	1	ROM1	7	14	190.68	5.233e-3	3.764e-2