

GeDiPNet Cluster 31 -- 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 10:25:42

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
sensory perception of sound	GO:0007605	91	ATP2B2, CCDC50, CEACAM16, COCH, COL11A1, COL11A2, CRYM, DIAPH3, GJB2, GJB6, GSDME, HOMER2	162	501	20.95	4.298e-101	7.518e-96
auditory receptor cell stereocilium organization	GO:0060088	16	MYO7A, PLS1, TECTA, REST, CDH23, CLRN2, GRXCR1, GRXCR2, LHFPL5, STRC, TPRN, TRIOBP	19	501	31.41	5.064e-23	1.284e-19
inner ear morphogenesis	GO:0042472	22	COL11A1, KCNQ4, MYO6, MYO7A, POU4F3, SIX1, CDH23, MYO15A, SLITRK6, TMIE, USH1C, FOXI1	65	501	12.62	6.999e-19	9.416e-16
inner ear auditory receptor cell differentiation	GO:0042491	12	GSDME, MYO6, MYO7A, POU4F3, CDH23, CLRN2, GRXCR1, MINAR2, USH1C, USH2A, JAG1, ATOH1	19	501	23.56	5.145e-15	3.529e-12
inner ear receptor cell differentiation	GO:0060113	9	DIAPH3, MYO7A, POU4F3, MINAR2, WHRN, ADGRV1, PDZD7, USH2A, USH1G	9	501	37.30	6.670e-15	4.453e-12
visual perception	GO:0007601	31	COL11A1, EYA4, MYO7A, POU4F3, WFS1, CABP2, CDH23, CLIC5, MYO3A, SLITRK6, KCNJ10, ADGRV1	215	501	5.38	2.000e-14	1.236e-11
inner ear development	GO:0048839	17	EYA4, GJB6, MYO7A, POU4F3, SIX1, CDH23, ESRRB, GRXCR1, PCDH15, ROR1, ADGRV1, KCNQ1	54	501	11.74	2.757e-14	1.654e-11
detection of mechanical stimulus involved in sensory perception of sound	GO:0050910	11	COL11A1, PTPRQ, TMC1, REST, LHFPL5, PJVK, STRC, WHRN, ADGRV1, KCNQ1, PDZD7	18	501	22.79	1.240e-13	6.713e-11
photoreceptor cell maintenance	GO:0045494	15	CDH23, CIB2, ESRRB, PCDH15, USH1C, ADGRV1, USH2A, USH1G, CLRN1, ERCC6, BBS2, TUB	45	501	12.43	3.557e-13	1.775e-10
sensory perception of light stimulus	GO:0050953	9	MYO7A, CDH23, PCDH15, USH1C, WHRN, ADGRV1, USH2A, USH1G, CLRN1	13	501	25.82	4.333e-12	1.716e-9
inner ear receptor cell stereocilium organization	GO:0060122	11	MYO7A, CDH23, GRXCR1, GRXCR2, MINAR2, OTOGL, STRC, USH1C, WHRN, ADGRV1, USH1G	25	501	16.41	1.465e-11	5.190e-9
equilibrioception	GO:0050957	6	MYO7A, CDH23, PCDH15, USH1C, USH1G, CLRN1	6	501	37.30	3.607e-10	9.011e-8
auditory receptor cell development	GO:0060117	6	TMC1, ELMOD3, KCNQ1, PDZD7, CLRN1, PAFAH1B1	8	501	27.97	9.645e-9	1.657e-6
cochlea development	GO:0090102	10	MCM2, MYO7A, SLC17A8, CDH23, GRXCR1, SLC26A5, SLITRK6, KCNQ1, GATA3, PAFAH1B1	35	501	10.66	1.764e-8	2.802e-6
olfactory behavior	GO:0042048	6	LMX1A, WFS1, GJB4, ATP6V1B1, CHD7, BBS1	9	501	24.87	2.828e-8	4.182e-6