

GeDiPNet Cluster 52 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See scripts/build_cluster_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 21:08:29

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Basal cell carcinoma	KEGG	5	WNT7B, BMP4, PTCH1, SHH, FZD5	63	76	12.54	4.689e-5	1.211e-3
TFAP2 (AP-2) family regulates transcription of other transcription factors	Reactome	2	PITX2, TFAP2A	4	76	79.01	2.352e-4	4.440e-3
Signaling pathways regulating pluripotency of stem cells	KEGG	6	WNT7B, SOX2, BMP4, HESX1, PAX6, FZD5	144	76	6.58	2.936e-4	5.270e-3
Gastric cancer	KEGG	6	RARB, WNT7B, SHH, FZD5, FGF8, LRP5	150	76	6.32	3.656e-4	6.258e-3
Hippo signaling pathway	KEGG	6	WNT7B, SOX2, BMP4, GDF6, FZD5, CRB1	157	76	6.04	4.664e-4	7.551e-3
Ligand-receptor interactions	Reactome	2	PTCH1, SHH	7	76	45.15	8.130e-4	1.164e-2
RNF mutants show enhanced WNT signaling and proliferation	Reactome	2	FZD5, LRP5	8	76	39.51	1.080e-3	1.438e-2
Retinoid cycle disease events	Reactome	2	STRA6, RBP4	13	76	24.31	2.946e-3	3.036e-2
Activation of SMO	Reactome	2	PTCH1, SHH	18	76	17.56	5.662e-3	4.751e-2
Pathways in cancer	KEGG	9	RARB, WNT7B, BMP4, IKBKG, PTCH1, SHH, FZD5, FGF8, LRP5	533	76	2.67	6.302e-3	5.100e-2
Defective ABCB6 causes isolated colobomatous microphthalmia 7 (MCOPCB7)	Reactome	1	ABCB6	1	76	158.03	6.328e-3	5.108e-2
Retinoid metabolism disease events	Reactome	1	RBP4	1	76	158.03	6.328e-3	5.108e-2
WNT ligand secretion is abrogated by the PORCN inhibitor LGK974	Reactome	1	PORCN	1	76	158.03	6.328e-3	5.108e-2
The canonical retinoid cycle in rods (twilight vision)	Reactome	2	STRA6, RBP4	20	76	15.80	6.975e-3	5.451e-2
Regulation of FZD by ubiquitination	Reactome	2	FZD5, LRP5	21	76	15.05	7.677e-3	5.808e-2