

GeDiPNet Cluster 142 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-09 17:10:08

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Breast cancer	KEGG	8	FZD4, CTNNB1, LRP5, LRP6, DLL3, JAG2, APC, FGF16	148	48	13.52	1.094e-7	6.852e-6
Gastric cancer	KEGG	7	FZD4, CTNNB1, LRP5, LRP6, APC, SHH, FGF16	150	48	11.68	1.976e-6	8.343e-5
RNF mutants show enhanced WNT signaling and proliferation	Reactome	3	FZD4, LRP5, LRP6	8	48	93.83	3.309e-6	1.301e-4
Basal cell carcinoma	KEGG	5	FZD4, CTNNB1, GLI3, APC, SHH	63	48	19.86	4.864e-6	1.798e-4
Disassembly of the destruction complex and recruitment of AXIN to the membrane	Reactome	4	CTNNB1, LRP5, LRP6, APC	30	48	33.36	5.702e-6	2.047e-4
Pathways in cancer	KEGG	11	FZD4, CTNNB1, LRP5, LRP6, AGT, GLI3, DLL3, JAG2, APC, SHH, FGF16	533	48	5.16	6.009e-6	2.130e-4
Activation of SMO	Reactome	3	IHH, IQCE, SHH	18	48	41.70	4.688e-5	1.177e-3
Wnt signaling pathway	KEGG	6	FZD4, CTNNB1, LRP5, LRP6, CSNK2B, APC	174	48	8.63	6.286e-5	1.491e-3
Hedgehog signaling pathway	KEGG	4	IHH, GLI3, IQCE, SHH	56	48	17.87	7.082e-5	1.646e-3
Regulation of FZD by ubiquitination	Reactome	3	FZD4, LRP5, LRP6	21	48	35.74	7.576e-5	1.737e-3
HHAT G278V abrogates palmitoylation of Hh-Np	Reactome	2	IHH, SHH	4	48	125.10	9.337e-5	2.066e-3
Release of Hh-Np from the secreting cell	Reactome	2	IHH, SHH	7	48	71.49	3.243e-4	5.601e-3
Ligand-receptor interactions	Reactome	2	IHH, SHH	7	48	71.49	3.243e-4	5.601e-3
Cell adhesion molecules	KEGG	5	CLDN12, CLDN14, HLA-B, HLA-DRB1, PTPRD	160	48	7.82	4.251e-4	6.951e-3
Negative regulation of TCF-dependent signaling by WNT ligand antagonists	Reactome	2	LRP5, LRP6	8	48	62.55	4.313e-4	7.030e-3