

GeDiPNet Cluster 68 -- 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 14:44:05

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Basal cell carcinoma	KEGG	7	WNT10A, BMP2, BMP4, GLI3, WNT10B, LEF1, AXIN2	63	74	18.03	1.060e-7	6.667e-6
Pathways in cancer	KEGG	16	LRP6, TRAF6, WNT10A, BMP2, BMP4, GLI3, MMP9, WNT10B, RHOA, LEF1, IKBKG, NFKBIA	533	74	4.87	1.116e-7	6.960e-6
Signaling pathways regulating pluripotency of stem cells	KEGG	8	SMARCAD1, WNT10A, BMP4, WNT10B, AXIN2, FGFR1, SMAD2, BMPR2	144	74	9.02	2.717e-6	1.104e-4
NF-kappa B signaling pathway	KEGG	7	EDA, EDAR, EDARADD, TRAF6, EDA2R, IKBKG, NFKBIA	105	74	10.82	3.552e-6	1.384e-4
Hippo signaling pathway	KEGG	8	WNT10A, BMP2, BMP4, WNT10B, LEF1, AXIN2, SMAD2, BMPR2	157	74	8.27	5.176e-6	1.890e-4
Negative regulation of TCF-dependent signaling by WNT ligand antagonists	Reactome	3	LRP6, DKK1, KREMEN1	8	74	60.86	1.230e-5	3.873e-4
TNFs bind their physiological receptors	Reactome	4	EDA, EDAR, EDARADD, EDA2R	29	74	22.39	2.807e-5	7.741e-4
Prostate cancer	KEGG	6	MMP9, LEF1, IKBKG, NFKBIA, FGFR1, TGFA	98	74	9.94	2.995e-5	8.155e-4
TGF-beta signaling pathway	KEGG	6	BMP2, BMP4, GREM2, RHOA, SMAD2, BMPR2	108	74	9.02	5.188e-5	1.277e-3
Hepatocellular carcinoma	KEGG	7	LRP6, WNT10A, WNT10B, LEF1, AXIN2, SMAD2, TGFA	170	74	6.68	8.158e-5	1.850e-3
Wnt signaling pathway	KEGG	7	LRP6, WNT10A, DKK1, WNT10B, RHOA, LEF1, AXIN2	174	74	6.53	9.442e-5	2.083e-3
Formation of the cornified envelope	Reactome	6	KRT16, KRT17, PKP1, KRT85, KRT74, DSP	130	74	7.49	1.453e-4	2.951e-3
Colorectal cancer	KEGG	5	RHOA, LEF1, AXIN2, SMAD2, TGFA	87	74	9.33	1.932e-4	3.702e-3
SLIT2:ROBO1 increases RHOA activity	Reactome	2	RHOA, ROBO1	4	74	81.15	2.229e-4	4.141e-3
Adherens junction	KEGG	5	NECTIN1, RHOA, LEF1, NECTIN4, FGFR1	93	74	8.73	2.641e-4	4.750e-3