

GeDiPNet Cluster 270 -- 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 18:05:15

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Gastric cancer	KEGG	9	CDH1, ERBB2, SMAD4, CCND1, CDKN1A, EGFR, HRAS, TGFB1, TERT	150	32	22.52	1.276e-10	1.797e-8
Pathways in cancer	KEGG	13	CDH1, ERBB2, PTGER1, PTGS2, SMAD4, CCND1, CDKN1A, EGFR, HRAS, NQO1, TGFA, TGFB1	533	32	9.15	3.584e-10	4.545e-8
Hepatocellular carcinoma	KEGG	9	SMAD4, CCND1, CDKN1A, EGFR, HRAS, NQO1, TGFA, TGFB1, TERT	170	32	19.87	3.913e-10	4.884e-8
Bladder cancer	KEGG	6	CDH1, ERBB2, CCND1, CDKN1A, EGFR, HRAS	41	32	54.92	9.171e-10	1.038e-7
Pancreatic cancer	KEGG	7	ERBB2, SMAD4, CCND1, CDKN1A, EGFR, TGFA, TGFB1	77	32	34.12	9.978e-10	1.122e-7
Colorectal cancer	KEGG	7	SMAD4, CCND1, CDKN1A, EGFR, HRAS, TGFA, TGFB1	87	32	30.20	2.380e-9	2.403e-7
Prostate cancer	KEGG	7	ATF4, ERBB2, CCND1, CDKN1A, EGFR, HRAS, TGFA	98	32	26.81	5.523e-9	5.214e-7
Endometrial cancer	KEGG	6	CDH1, ERBB2, CCND1, CDKN1A, EGFR, HRAS	59	32	38.17	8.888e-9	7.889e-7
Non-small cell lung cancer	KEGG	6	ERBB2, CCND1, CDKN1A, EGFR, HRAS, TGFA	73	32	30.85	3.271e-8	2.473e-6
FoxO signaling pathway	KEGG	7	SMAD4, SOD2, CCND1, CDKN1A, EGFR, HRAS, TGFB1	133	32	19.75	4.658e-8	3.349e-6
Human T-cell leukemia virus 1 infection	KEGG	8	ATF4, SMAD4, CCND1, CDKN1A, HRAS, TGFB1, HLA-DQB1, TERT	224	32	13.40	9.244e-8	6.125e-6
RUNX3 regulates CDKN1A transcription	Reactome	3	SMAD4, CDKN1A, TGFB1	7	32	160.85	5.971e-7	3.118e-5
Melanoma	KEGG	5	CDH1, CCND1, CDKN1A, EGFR, HRAS	73	32	25.71	1.280e-6	6.055e-5
Glioma	KEGG	5	CCND1, CDKN1A, EGFR, HRAS, TGFA	76	32	24.69	1.565e-6	7.163e-5
Chronic myeloid leukemia	KEGG	5	SMAD4, CCND1, CDKN1A, HRAS, TGFB1	77	32	24.37	1.671e-6	7.556e-5