

GeDiPNet Cluster 570 -- 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: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:03:14

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Prostate cancer	KEGG	11	CTNNB1, HRAS, TP53, FGFR2, KRAS, PTEN, CREBBP, RB1, BRAF, FGFR1, PIK3CA	98	64	21.06	3.128e-12	5.316e-10
Melanoma	KEGG	10	HRAS, TP53, CDH1, KRAS, PTEN, CDKN2A, RB1, BRAF, FGFR1, PIK3CA	73	64	25.71	4.239e-12	7.004e-10
Bladder cancer	KEGG	8	HRAS, TP53, CDH1, KRAS, CDKN2A, FGFR3, RB1, BRAF	41	64	36.62	3.442e-11	4.612e-9
Hepatocellular carcinoma	KEGG	12	CTNNB1, HRAS, TP53, KRAS, PTEN, CDKN2A, ARID1A, ARID1B, RB1, SMARCB1, BRAF, PIK3CA	170	64	13.25	7.602e-11	9.211e-9
Endocrine resistance	KEGG	10	HRAS, TP53, KRAS, CDKN2A, GNAS, RB1, NCOR1, NOTCH1, BRAF, PIK3CA	99	64	18.96	9.552e-11	1.126e-8
Breast cancer	KEGG	11	CTNNB1, HRAS, TP53, KRAS, PTEN, FLT4, RB1, NOTCH1, BRAF, FGFR1, PIK3CA	148	64	13.95	2.909e-10	3.061e-8
Endometrial cancer	KEGG	8	CTNNB1, HRAS, TP53, CDH1, KRAS, PTEN, BRAF, PIK3CA	59	64	25.44	7.413e-10	7.083e-8
Pathways in cancer	KEGG	17	CTNNB1, HRAS, TP53, FGFR2, CDH1, KRAS, PTEN, CDKN2A, FGFR3, GNAS, FLT4, CREBBP	533	64	5.99	1.546e-9	1.379e-7
Human papillomavirus infection	KEGG	14	CTNNB1, HRAS, TP53, KRAS, CHD4, PTEN, MAML2, ATM, GNAS, TSC2, CREBBP, RB1	333	64	7.89	1.653e-9	1.461e-7
Central carbon metabolism in cancer	KEGG	8	HRAS, TP53, FGFR2, KRAS, PTEN, FGFR3, FGFR1, PIK3CA	71	64	21.14	3.383e-9	2.806e-7
Non-small cell lung cancer	KEGG	8	HRAS, TP53, FHIT, KRAS, CDKN2A, RB1, BRAF, PIK3CA	73	64	20.57	4.239e-9	3.433e-7
Glioma	KEGG	8	HRAS, TP53, KRAS, PTEN, CDKN2A, RB1, BRAF, PIK3CA	76	64	19.75	5.873e-9	4.600e-7
Rap1 signaling pathway	KEGG	11	CTNNB1, HRAS, FGFR2, CDH1, KRAS, FGFR3, GNAS, FLT4, BRAF, FGFR1, PIK3CA	211	64	9.78	1.248e-8	9.018e-7
Thyroid hormone signaling pathway	KEGG	9	CTNNB1, HRAS, TP53, KRAS, TSC2, CREBBP, NCOR1, NOTCH1, PIK3CA	122	64	13.84	1.473e-8	1.048e-6
Human T-cell leukemia virus 1 infection	KEGG	11	CRTC3, HRAS, TP53, KRAS, PTEN, CDKN2A, ATM, CRTC1, CREBBP, RB1, PIK3CA	224	64	9.22	2.320e-8	1.560e-6