

GeDiPNet Cluster 591 -- 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 00:02:42

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Thyroid cancer	KEGG	2	BRAF, TP53	37	4	162.30	5.520e-5	1.179e-3
Bladder cancer	KEGG	2	BRAF, TP53	41	4	146.46	6.793e-5	1.392e-3
Endometrial cancer	KEGG	2	BRAF, TP53	59	4	101.78	1.415e-4	2.497e-3
Signaling by BRAF and RAF fusions	Reactome	2	KIAA1549, BRAF	67	4	89.63	1.826e-4	3.056e-3
Melanoma	KEGG	2	BRAF, TP53	73	4	82.26	2.169e-4	3.500e-3
Non-small cell lung cancer	KEGG	2	BRAF, TP53	73	4	82.26	2.169e-4	3.500e-3
Glioma	KEGG	2	BRAF, TP53	76	4	79.01	2.352e-4	3.728e-3
Pancreatic cancer	KEGG	2	BRAF, TP53	77	4	77.99	2.414e-4	3.805e-3
Chronic myeloid leukemia	KEGG	2	BRAF, TP53	77	4	77.99	2.414e-4	3.805e-3
Colorectal cancer	KEGG	2	BRAF, TP53	87	4	69.02	3.083e-4	4.603e-3
Prostate cancer	KEGG	2	BRAF, TP53	98	4	61.28	3.913e-4	5.527e-3
Endocrine resistance	KEGG	2	BRAF, TP53	99	4	60.66	3.993e-4	5.615e-3
Neurotrophin signaling pathway	KEGG	2	BRAF, TP53	120	4	50.04	5.863e-4	7.546e-3
Regulation of TP53 Expression	Reactome	1	TP53	2	4	1501.25	6.660e-4	8.310e-3
Fluid shear stress and atherosclerosis	KEGG	2	ACVR1, TP53	141	4	42.59	8.086e-4	9.626e-3