

GeDiPNet Cluster 149 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-08 18:15:05

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Central carbon metabolism in cancer	KEGG	4	PDGFRA, FGFR1, KRAS, PDGFRB	71	9	75.18	1.382e-7	8.701e-6
Melanoma	KEGG	4	PDGFRA, FGFR1, KRAS, PDGFRB	73	9	73.12	1.547e-7	9.631e-6
Prostate cancer	KEGG	4	PDGFRA, FGFR1, KRAS, PDGFRB	98	9	54.47	5.091e-7	2.717e-5
Downstream signal transduction	Reactome	3	PDGFRA, KRAS, PDGFRB	29	9	138.05	1.053e-6	5.085e-5
RAF/MAP kinase cascade	Reactome	4	PDGFRA, FGFR1, KRAS, PDGFRB	124	9	43.05	1.311e-6	6.150e-5
Rap1 signaling pathway	KEGG	4	PDGFRA, FGFR1, KRAS, PDGFRB	211	9	25.30	1.089e-5	3.673e-4
Regulation of actin cytoskeleton	KEGG	4	PDGFRA, FGFR1, KRAS, PDGFRB	232	9	23.01	1.584e-5	5.003e-4
Ras signaling pathway	KEGG	4	PDGFRA, FGFR1, KRAS, PDGFRB	237	9	22.52	1.724e-5	5.371e-4
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	3	PDGFRA, FGFR1, PDGFRB	75	9	53.38	1.913e-5	5.887e-4
Glioma	KEGG	3	PDGFRA, KRAS, PDGFRB	76	9	52.68	1.991e-5	6.080e-4
EGFR tyrosine kinase inhibitor resistance	KEGG	3	PDGFRA, KRAS, PDGFRB	80	9	50.04	2.323e-5	6.908e-4
Gap junction	KEGG	3	PDGFRA, KRAS, PDGFRB	89	9	44.98	3.200e-5	8.930e-4
Signaling by PDGFRA transmembrane, juxtamembrane and kinase domain mutants	Reactome	2	PDGFRA, KRAS	12	9	222.41	3.282e-5	9.127e-4
Signaling by PDGFRA extracellular domain mutants	Reactome	2	PDGFRA, KRAS	12	9	222.41	3.282e-5	9.127e-4
PIP3 activates AKT signaling	Reactome	3	PDGFRA, FGFR1, PDGFRB	93	9	43.05	3.651e-5	9.975e-4