

GeDiPNet Cluster 440 -- 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 00:02:59

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Chronic myeloid leukemia	KEGG	2	ABL1, TGFB2	77	7	44.56	8.345e-4	9.866e-3
TGF-beta signaling pathway	KEGG	2	SKI, TGFB2	108	7	31.77	1.634e-3	1.642e-2
Role of ABL in ROBO-SLIT signaling	Reactome	1	ABL1	4	7	428.93	2.330e-3	2.129e-2
Cell cycle	KEGG	2	ABL1, TGFB2	158	7	21.72	3.458e-3	2.818e-2
Signaling by Retinoic Acid	Reactome	1	RARG	21	7	81.70	1.218e-2	6.411e-2
Downregulation of SMAD2/3:SMAD4 transcriptional activity	Reactome	1	SKI	22	7	77.99	1.276e-2	6.573e-2
MicroRNAs in cancer	KEGG	2	ABL1, TGFB2	311	7	11.03	1.288e-2	6.617e-2
Myogenesis	Reactome	1	ABL1	27	7	63.54	1.564e-2	7.438e-2
Signaling by BMP	Reactome	1	SKI	28	7	61.28	1.621e-2	7.590e-2
RHO GTPases Activate WASPs and WAVes	Reactome	1	ABL1	36	7	47.66	2.080e-2	8.765e-2
Striated Muscle Contraction	Reactome	1	TNNI2	36	7	47.66	2.080e-2	8.765e-2
HDR through Single Strand Annealing (SSA)	Reactome	1	ABL1	37	7	46.37	2.137e-2	8.910e-2
Molecules associated with elastic fibres	Reactome	1	TGFB2	38	7	45.15	2.194e-2	9.030e-2
Cyclin D associated events in G1	Reactome	1	ABL1	44	7	38.99	2.537e-2	9.817e-2
Malaria	KEGG	1	TGFB2	50	7	34.31	2.879e-2	1.056e-1