

GeDiPNet Cluster 250 -- 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 00:48:41

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
PI-3K cascade:FGFR3	Reactome	2	FGFR3, PTPN11	18	14	95.32	1.910e-4	3.772e-3
FRS-mediated FGFR3 signaling	Reactome	2	FGFR3, PTPN11	20	14	85.79	2.369e-4	4.463e-3
Negative regulation of FGFR3 signaling	Reactome	2	FGFR3, PTPN11	22	14	77.99	2.876e-4	5.189e-3
PI3K Cascade	Reactome	2	FGFR3, PTPN11	39	14	43.99	9.123e-4	1.266e-2
t(4;14) translocations of FGFR3	Reactome	1	FGFR3	1	14	857.86	1.166e-3	1.522e-2
Transcriptional misregulation in cancer	KEGG	3	EWSR1, NR4A3, TAF15	198	14	13.00	1.405e-3	1.754e-2
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	2	FGFR3, PTPN11	75	14	22.88	3.336e-3	3.319e-2
PIP3 activates AKT signaling	Reactome	2	FGFR3, PTPN11	93	14	18.45	5.081e-3	4.421e-2
MET activates PTPN11	Reactome	1	PTPN11	5	14	171.57	5.816e-3	4.841e-2
PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	Reactome	2	FGFR3, PTPN11	103	14	16.66	6.198e-3	5.046e-2
Misspliced LRP5 mutants have enhanced beta-catenin-dependent signaling	Reactome	1	LRP5	6	14	142.98	6.975e-3	5.451e-2
FGFR3b ligand binding and activation	Reactome	1	FGFR3	7	14	122.55	8.133e-3	6.039e-2
Negative regulation of TCF-dependent signaling by WNT ligand antagonists	Reactome	1	LRP5	8	14	107.23	9.290e-3	6.561e-2
RNF mutants show enhanced WNT signaling and proliferation	Reactome	1	LRP5	8	14	107.23	9.290e-3	6.561e-2
MAPK1 (ERK2) activation	Reactome	1	PTPN11	9	14	95.32	1.045e-2	7.047e-2