

GeDiPNet Cluster 115 -- 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: 2026-10-09 03:30:08. · Rows: 15 · Generated: 2026-10-08 22:25:06

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Gastric cancer	KEGG	20	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR2, MYC, EGF, FZD4, TGFB1, TGFB2	150	259	6.18	6.774e-11	9.491e-9
Pathways in cancer	KEGG	37	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR1, FGFR2, FGFR3, MYC, PTCH1, CHUK	533	259	3.22	2.536e-10	3.113e-8
Activated point mutants of FGFR2	Reactome	8	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR2, FGF1	17	259	21.82	8.633e-10	9.274e-8
Phospholipase C-mediated cascade; FGFR2	Reactome	8	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR2, FGF1	18	259	20.61	1.525e-9	1.539e-7
Negative regulation of FGFR2 signaling	Reactome	9	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR2, UBB, FGF1	27	259	15.46	2.932e-9	2.786e-7
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	13	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR1, FGFR2, FGFR3, EGF, PDGFRA, FGF1	75	259	8.04	6.222e-9	5.480e-7
MAPK signaling pathway	KEGG	25	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR1, FGFR2, FGFR3, MYC, CHUK, EGF	299	259	3.88	6.576e-9	5.737e-7
PI3K Cascade	Reactome	10	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR1, FGFR2, FGFR3, FGF1	39	259	11.89	6.707e-9	5.815e-7
RAF/MAP kinase cascade	Reactome	16	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR1, FGFR2, FGFR3, DLG1, EGF, PDGFRA	124	259	5.98	9.353e-9	7.775e-7
PI-3K cascade:FGFR2	Reactome	8	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR2, FGF1	23	259	16.13	1.556e-8	1.208e-6
SHC-mediated cascade:FGFR2	Reactome	8	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR2, FGF1	23	259	16.13	1.556e-8	1.208e-6
FGFR2b ligand binding and activation	Reactome	6	FGF10, FGF2, FGF3, FGF7, FGFR2, FGF1	10	259	27.82	1.855e-8	1.416e-6
Breast cancer	KEGG	17	FGF10, FGF2, FGF3, FGF7, FGF8, FGF9, FGFR1, MYC, EGF, FZD4, FGF1, AXIN2	148	259	5.33	1.900e-8	1.448e-6
Phospholipase C-mediated cascade: FGFR1	Reactome	7	FGF10, FGF2, FGF3, FGF8, FGF9, FGFR1, FGF1	16	259	20.29	1.939e-8	1.474e-6
FGFR1b ligand binding and activation	Reactome	5	FGF10, FGF2, FGF3, FGFR1, FGF1	6	259	38.64	2.647e-8	1.945e-6