

GeDiPNet Cluster 248 -- 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 06:18:13

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
PI3K-Akt signaling pathway	KEGG	4	IL6, CSF3, IFNA2, KRAS	361	12	11.09	3.282e-4	5.755e-3
Hepatitis B	KEGG	3	IL6, IFNA2, KRAS	163	12	18.42	4.935e-4	7.894e-3
JAK-STAT signaling pathway	KEGG	3	IL6, CSF3, IFNA2	168	12	17.87	5.391e-4	8.440e-3
Kaposi sarcoma-associated herpesvirus infection	KEGG	3	IL6, IFNA2, KRAS	196	12	15.32	8.448e-4	1.193e-2
Interleukin-10 signaling	Reactome	2	IL6, CSF3	47	12	42.59	9.649e-4	1.320e-2
Vitamin E	Reactome	1	TTPA	1	12	1000.83	9.992e-4	1.354e-2
Malaria	KEGG	2	IL6, CSF3	50	12	40.03	1.092e-3	1.448e-2
Lipid and atherosclerosis	KEGG	3	IL6, IFNA2, KRAS	216	12	13.90	1.120e-3	1.475e-2
Human cytomegalovirus infection	KEGG	3	IL6, IFNA2, KRAS	226	12	13.29	1.276e-3	1.628e-2
Coronavirus disease - COVID-19	KEGG	3	IL6, CSF3, IFNA2	238	12	12.62	1.481e-3	1.830e-2
GnRH secretion	KEGG	2	GNRH1, KRAS	65	12	30.79	1.838e-3	2.141e-2
EGFR tyrosine kinase inhibitor resistance	KEGG	2	IL6, KRAS	80	12	25.02	2.770e-3	2.905e-2
Cytokine-cytokine receptor interaction	KEGG	3	IL6, CSF3, IFNA2	298	12	10.08	2.817e-3	2.942e-2
Cytosolic DNA-sensing pathway	KEGG	2	IL6, IFNA2	83	12	24.12	2.978e-3	3.060e-2
RAS GTPase cycle mutants	Reactome	1	KRAS	3	12	333.61	2.995e-3	3.068e-2