

GeDiPNet Cluster 63 -- 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 05:04:26

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Lipid and atherosclerosis	KEGG	49	CCL2, CD14, FOS, GSK3B, HSPA1A, IL1B, IL6, JUN, MMP9, PPP3CA, SOD2, TICAM2	216	299	9.11	1.491e-33	5.880e-30
Cytokine-cytokine receptor interaction	KEGG	52	CCL2, CSF3, CXCL10, EPO, IFNL3, IL10, IL12RB2, IL13RA2, IL18R1, IL1A, IL1B, IL1R1	298	299	7.01	1.230e-29	3.574e-26
Interleukin-4 and Interleukin-13 signaling	Reactome	29	CCL2, FGF2, FOS, IL10, IL13RA2, IL1A, IL1B, IL6, MMP9, PTGS2, TNF, VEGFA	108	299	10.79	2.289e-22	2.809e-19
Apoptosis	KEGG	31	FOS, JUN, PARP1, TNF, TNFRSF1A, TNFSF10, RELA, BBC3, CASP3, CASP9, CYCS, DIABLO	137	299	9.09	2.047e-21	2.107e-18
Toxoplasmosis	KEGG	28	HSPA1A, IL10, TLR2, TLR4, TNF, TNFRSF1A, ITGB1, LAMA1, NOS2, RELA, CASP3, CASP9	112	299	10.04	1.053e-20	9.300e-18
Tuberculosis	KEGG	34	CD14, CEBPB, CLEC4E, IL10, IL1A, IL1B, IL6, PPP3CA, TLR1, TLR2, TLR4, TLR9	181	299	7.55	1.262e-20	1.091e-17
Chagas disease	KEGG	27	CCL2, FOS, IL10, IL1B, IL2, IL6, JUN, TLR2, TLR4, TLR9, TNF, TNFRSF1A	103	299	10.53	1.362e-20	1.166e-17
IL-17 signaling pathway	KEGG	26	CCL2, CEBPB, CSF3, CXCL10, FOS, GSK3B, IL1B, IL6, JUN, MMP9, PTGS2, TNF	94	299	11.11	1.604e-20	1.342e-17
Interleukin-10 signaling	Reactome	20	CCL2, CSF3, CXCL10, IL10, IL1A, IL1B, IL1R1, IL1RN, IL6, PTGS2, TNF, TNFRSF1A	47	299	17.09	2.366e-20	1.921e-17
Measles	KEGG	30	FOS, GSK3B, HSPA1A, IL1A, IL1B, IL2, IL6, JUN, TLR2, TLR4, TLR9, RELA	139	299	8.67	4.004e-20	3.114e-17
TNF signaling pathway	KEGG	28	CCL2, CEBPB, CXCL10, FOS, IL18R1, IL1B, IL6, IRF1, JUN, MMP9, PTGS2, TNF	119	299	9.45	6.237e-20	4.784e-17
Viral protein interaction with cytokine and cytokine receptor	KEGG	26	CCL2, CXCL10, IL10, IL18R1, IL2, IL6, TNF, TNFRSF14, TNFRSF1A, TNFSF10, CCL11, CCL13	100	299	10.44	9.031e-20	6.832e-17
Pathways in cancer	KEGG	54	EPO, FGF2, FOS, GSK3B, IL12RB2, IL2, IL6, IL7, JUN, MMP9, PTGS2, TRAF4	533	299	4.07	3.936e-19	2.823e-16
MAPK signaling pathway	KEGG	40	BDNF, CD14, FGF2, FOS, HSPA1A, IL1A, IL1B, IL1R1, JUN, PPP3CA, TNF, TNFRSF1A	299	299	5.37	1.565e-18	1.023e-15
Kaposi sarcoma-associated herpesvirus infection	KEGG	33	BECN1, FGF2, FOS, GSK3B, IL6, JUN, PPP3CA, PTGS2, TNFRSF1A, VEGFA, ICAM1, RELA	196	299	6.76	1.621e-18	1.047e-15