

GeDiPNet Cluster 300 -- 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 07:49:15

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Multifunctional anion exchangers	Reactome	3	SLC26A1, SLC26A6, SLC26A7	9	14	285.95	1.055e-7	6.866e-6
Glyoxylate metabolism and glycine degradation	Reactome	3	AGXT, GRHPR, HOGA1	28	14	91.91	4.061e-6	1.598e-4
Chagas disease	KEGG	4	CCL2, CCL5, IL6, NFKB1	103	14	33.31	4.781e-6	1.833e-4
Glyoxylate and dicarboxylate metabolism	KEGG	3	AGXT, GRHPR, HOGA1	30	14	85.79	5.026e-6	1.906e-4
TNF signaling pathway	KEGG	4	CCL2, CCL5, IL6, NFKB1	119	14	28.84	8.495e-6	2.928e-4
Interleukin-10 signaling	Reactome	3	CCL2, CCL5, IL6	47	14	54.76	1.984e-5	5.943e-4
Influenza A	KEGG	4	CCL2, CCL5, IL6, NFKB1	173	14	19.83	3.719e-5	9.996e-4
Herpes simplex virus 1 infection	KEGG	4	CCL2, CCL5, IL6, NFKB1	182	14	18.85	4.536e-5	1.180e-3
NOD-like receptor signaling pathway	KEGG	4	CCL2, CCL5, IL6, NFKB1	187	14	18.35	5.043e-5	1.288e-3
Lipid and atherosclerosis	KEGG	4	CCL2, CCL5, IL6, NFKB1	216	14	15.89	8.842e-5	2.029e-3
Human cytomegalovirus infection	KEGG	4	CCL2, CCL5, IL6, NFKB1	226	14	15.18	1.054e-4	2.350e-3
Cytosolic DNA-sensing pathway	KEGG	3	CCL5, IL6, NFKB1	83	14	31.01	1.097e-4	2.417e-3
IL-17 signaling pathway	KEGG	3	CCL2, IL6, NFKB1	94	14	27.38	1.588e-4	3.255e-3
Rheumatoid arthritis	KEGG	3	CCL2, CCL5, IL6	95	14	27.09	1.638e-4	3.339e-3
Viral protein interaction with cytokine and cytokine receptor	KEGG	3	CCL2, CCL5, IL6	100	14	25.74	1.907e-4	3.771e-3