

GeDiPNet Cluster 548 -- 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: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:02:38

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
JAK-STAT signaling pathway	KEGG	3	IL6, CSF3, IFNA2	168	10	21.45	3.002e-4	4.511e-3
Interleukin-10 signaling	Reactome	2	IL6, CSF3	47	10	51.11	6.612e-4	8.277e-3
Malaria	KEGG	2	IL6, CSF3	50	10	48.04	7.483e-4	9.089e-3
Coronavirus disease - COVID-19	KEGG	3	IL6, CSF3, IFNA2	238	10	15.14	8.319e-4	9.853e-3
Vitamin E	Reactome	1	TTPA	1	10	1201.00	8.326e-4	9.853e-3
Cytokine-cytokine receptor interaction	KEGG	3	IL6, CSF3, IFNA2	298	10	12.09	1.594e-3	1.611e-2
Cytosolic DNA-sensing pathway	KEGG	2	IL6, IFNA2	83	10	28.94	2.048e-3	1.934e-2
IL-17 signaling pathway	KEGG	2	IL6, CSF3	94	10	25.55	2.618e-3	2.315e-2
PI3K-Akt signaling pathway	KEGG	3	IL6, CSF3, IFNA2	361	10	9.98	2.761e-3	2.402e-2
Hematopoietic cell lineage	KEGG	2	IL6, CSF3	100	10	24.02	2.957e-3	2.522e-2
Toll-like receptor signaling pathway	KEGG	2	IL6, IFNA2	109	10	22.04	3.502e-3	2.833e-2
Vasopressin-like receptors	Reactome	1	OXT	6	10	200.17	4.986e-3	3.635e-2
Measles	KEGG	2	IL6, IFNA2	139	10	17.28	5.631e-3	3.949e-2
Alcoholic liver disease	KEGG	2	IL6, IFNA2	144	10	16.68	6.032e-3	4.120e-2
CD163 mediating an anti-inflammatory response	Reactome	1	IL6	9	10	133.44	7.471e-3	4.730e-2