

GeDiPNet Cluster 205 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-08 03:13:07

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Protein export	KEGG	5	SRP19, SRP54, SEC61A1, SRP68, SRPRA	31	74	26.18	1.161e-6	5.533e-5
Coronavirus disease - COVID-19	KEGG	10	C5, CSF2, CSF3, FCGR2A, IFNA2, IL1B, RPS14, STAT2, TNF, CFD	238	74	6.82	1.828e-6	8.203e-5
Malaria	KEGG	5	ACKR1, CSF3, IL1B, TGFB2, TNF	50	74	16.23	1.322e-5	4.300e-4
Cytokine-cytokine receptor interaction	KEGG	10	CSF3R, CXCR2, CSF2, CSF3, IFNA2, IL1B, TGFB2, TNF, TNFRSF10A, TNFSF13B	298	74	5.45	1.342e-5	4.360e-4
Rheumatoid arthritis	KEGG	6	TCIRG1, CSF2, IL1B, TGFB2, TNF, TNFSF13B	95	74	10.25	2.509e-5	7.370e-4
Tuberculosis	KEGG	7	TCIRG1, FCGR2A, FCGR2B, IFNA2, IL1B, TGFB2, TNF	181	74	6.28	1.208e-4	2.637e-3
Interleukin-10 signaling	Reactome	4	CSF2, CSF3, IL1B, TNF	47	74	13.81	1.938e-4	3.854e-3
Osteoclast differentiation	KEGG	6	FCGR2A, FCGR2B, IL1B, STAT2, TGFB2, TNF	142	74	6.86	2.352e-4	4.485e-3
Hypertrophic cardiomyopathy	KEGG	5	LMNA, SGCZ, TGFB2, TNF, TPM1	99	74	8.20	3.532e-4	6.200e-3
Hematopoietic cell lineage	KEGG	5	CSF3R, CSF2, CSF3, IL1B, TNF	100	74	8.11	3.700e-4	6.438e-3
Dilated cardiomyopathy	KEGG	5	LMNA, SGCZ, TGFB2, TNF, TPM1	105	74	7.73	4.634e-4	7.683e-3
Influenza A	KEGG	6	IFNA2, IL1B, NUP98, STAT2, TNF, TNFRSF10A	173	74	5.63	6.750e-4	1.027e-2
Antifolate resistance	KEGG	3	IL1B, MTHFR, TNF	30	74	16.23	8.090e-4	1.183e-2
Leishmaniasis	KEGG	4	FCGR2A, IL1B, TGFB2, TNF	78	74	8.32	1.342e-3	1.739e-2
Drug metabolism - other enzymes	KEGG	4	DPYD, GSTT1, TPMT, UGT1A1	81	74	8.01	1.544e-3	1.932e-2