

GeDiPNet Cluster 236 -- 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 03:36:55

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Amoebiasis	KEGG	6	ARG1, IL1B, NOS2, PRDX1, TNF, IL10	103	31	22.57	2.126e-7	1.260e-5
Lipid and atherosclerosis	KEGG	7	ATF6, DDIT3, HSPA5, IL1B, NLRP3, TNF, POU2F2	216	31	12.56	1.006e-6	4.900e-5
Pertussis	KEGG	5	IL1B, NLRP3, NOS2, TNF, IL10	78	31	24.83	1.511e-6	6.956e-5
Interleukin-10 signaling	Reactome	4	IL1B, TNF, CD86, IL10	47	31	32.97	5.995e-6	2.197e-4
Interleukin-4 and Interleukin-13 signaling	Reactome	5	IL1B, NOS2, TNF, GATA3, IL10	108	31	17.94	7.557e-6	2.649e-4
Inflammatory bowel disease	KEGG	4	IL1B, TNF, GATA3, IL10	66	31	23.48	2.341e-5	6.795e-4
ATF6 (ATF6-alpha) activates chaperones	Reactome	2	ATF6, HSPA5	4	31	193.71	3.856e-5	1.030e-3
Leishmaniasis	KEGG	4	IL1B, NOS2, TNF, IL10	78	31	19.87	4.534e-5	1.180e-3
RUNX3 Regulates Immune Response and Cell Migration	Reactome	2	SPP1, RUNX3	5	31	154.97	6.417e-5	1.562e-3
Th1 and Th2 cell differentiation	KEGG	4	GATA3, IL2RB, NOTCH2, RUNX3	93	31	16.66	9.033e-5	2.067e-3
Tuberculosis	KEGG	5	IL1B, NOS2, TNF, CIITA, IL10	181	31	10.70	9.094e-5	2.076e-3
African trypanosomiasis	KEGG	3	IL1B, TNF, IL10	37	31	31.41	1.140e-4	2.489e-3
Allograft rejection	KEGG	3	TNF, CD86, IL10	39	31	29.80	1.336e-4	2.834e-3
Chagas disease	KEGG	4	IL1B, NOS2, TNF, IL10	103	31	15.05	1.343e-4	2.845e-3
C-type lectin receptor signaling pathway	KEGG	4	IL1B, NLRP3, TNF, IL10	105	31	14.76	1.447e-4	3.026e-3