

GeDiPNet Cluster 405 -- 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 17:47:03

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Cytokine-cytokine receptor interaction	KEGG	6	CCL22, IFNG, IL17A, CD70, FAS, CD27	298	14	17.27	5.637e-7	2.976e-5
Graft-versus-host disease	KEGG	3	IFNG, FAS, KIR3DS1	45	14	57.19	1.738e-5	5.328e-4
Necroptosis	KEGG	4	IFNG, XIAP, FAS, STAT3	159	14	21.58	2.670e-5	7.552e-4
Inflammatory bowel disease	KEGG	3	IFNG, IL17A, STAT3	66	14	38.99	5.526e-5	1.389e-3
Antigen processing and presentation	KEGG	3	IFNG, KIR3DS1, TAP2	81	14	31.77	1.020e-4	2.290e-3
RIPK1-mediated regulated necrosis	Reactome	2	XIAP, FAS	16	14	107.23	1.500e-4	3.110e-3
Interleukin-4 and Interleukin-13 signaling	Reactome	3	CCL22, IL17A, STAT3	108	14	23.83	2.395e-4	4.503e-3
Th17 cell differentiation	KEGG	3	IFNG, IL17A, STAT3	109	14	23.61	2.461e-4	4.592e-3
Toxoplasmosis	KEGG	3	IFNG, XIAP, STAT3	112	14	22.98	2.667e-4	4.895e-3
Natural killer cell mediated cytotoxicity	KEGG	3	IFNG, SH2D1A, FAS	133	14	19.35	4.420e-4	7.241e-3
TNFs bind their physiological receptors	Reactome	2	CD70, CD27	29	14	59.16	5.032e-4	7.999e-3
Hepatitis C	KEGG	3	IFNG, FAS, STAT3	159	14	16.19	7.446e-4	1.088e-2
African trypanosomiasis	KEGG	2	IFNG, FAS	37	14	46.37	8.210e-4	1.170e-2
Allograft rejection	KEGG	2	IFNG, FAS	39	14	43.99	9.123e-4	1.266e-2
Herpes simplex virus 1 infection	KEGG	3	IFNG, FAS, TAP2	182	14	14.14	1.102e-3	1.458e-2