

GeDiPNet Cluster 369 -- 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 18:46:49

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Allograft rejection	KEGG	4	CD86, FAS, HLA-DQA1, IL2	39	32	38.49	3.198e-6	1.309e-4
Type I diabetes mellitus	KEGG	4	CD86, FAS, HLA-DQA1, IL2	44	32	34.12	5.229e-6	1.968e-4
Graft-versus-host disease	KEGG	4	CD86, FAS, HLA-DQA1, IL2	45	32	33.36	5.728e-6	2.119e-4
Autoimmune thyroid disease	KEGG	4	CD86, FAS, HLA-DQA1, IL2	54	32	27.80	1.196e-5	3.892e-4
Inflammatory bowel disease	KEGG	4	GATA3, HLA-DQA1, IL2, IL21	66	32	22.75	2.664e-5	7.537e-4
Th17 cell differentiation	KEGG	4	GATA3, HLA-DQA1, IL2, IL21	109	32	13.77	1.898e-4	3.760e-3
Intestinal immune network for IgA production	KEGG	3	CD86, HLA-DQA1, IL2	50	32	22.52	3.093e-4	5.495e-3
Hepatitis B	KEGG	4	IFIH1, CREB3L1, EGR2, FAS	163	32	9.21	8.743e-4	1.224e-2
Th1 and Th2 cell differentiation	KEGG	3	GATA3, HLA-DQA1, IL2	93	32	12.11	1.895e-3	2.188e-2
Human T-cell leukemia virus 1 infection	KEGG	4	CREB3L1, EGR2, HLA-DQA1, IL2	224	32	6.70	2.812e-3	2.938e-2
Measles	KEGG	3	IFIH1, FAS, IL2	139	32	8.10	5.887e-3	4.878e-2
cGMP-PKG signaling pathway	KEGG	3	CREB3L1, PPIF, PRKG1	166	32	6.78	9.586e-3	6.691e-2
JAK-STAT signaling pathway	KEGG	3	IL2, IL21, PTPN2	168	32	6.70	9.904e-3	6.820e-2
Virion - Adenovirus	KEGG	1	CD86	4	32	93.83	1.062e-2	7.123e-2
Regulation of glycolysis by fructose 2,6-bisphosphate metabolism	Reactome	1	PFKFB3	4	32	93.83	1.062e-2	7.123e-2