

GeDiPNet Cluster 542 -- 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 00:03:15

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Modulation by Mtb of host immune system	Reactome	1	B2M	7	1	1715.71	5.828e-4	7.518e-3
Endosomal/Vacuolar pathway	Reactome	1	B2M	8	1	1501.25	6.661e-4	8.310e-3
Nef mediated downregulation of MHC class I complex cell surface expression	Reactome	1	B2M	10	1	1201.00	8.326e-4	9.853e-3
DAP12 interactions	Reactome	1	B2M	21	1	571.90	1.749e-3	1.726e-2
Antigen Presentation: Folding, assembly and peptide loading of class I MHC	Reactome	1	B2M	25	1	480.40	2.082e-3	1.956e-2
DAP12 signaling	Reactome	1	B2M	30	1	400.33	2.498e-3	2.231e-2
ER-Phagosome pathway	Reactome	1	B2M	30	1	400.33	2.498e-3	2.231e-2
Antigen processing and presentation	KEGG	1	B2M	81	1	148.27	6.744e-3	4.431e-2
Interferon gamma signaling	Reactome	1	B2M	87	1	138.05	7.244e-3	4.649e-2
Amyloid fiber formation	Reactome	1	B2M	109	1	110.18	9.076e-3	5.365e-2
Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell	Reactome	1	B2M	130	1	92.38	1.082e-2	5.979e-2
Herpes simplex virus 1 infection	KEGG	1	B2M	182	1	65.99	1.515e-2	7.302e-2
Epstein-Barr virus infection	KEGG	1	B2M	204	1	58.87	1.699e-2	7.807e-2
Human immunodeficiency virus 1 infection	KEGG	1	B2M	213	1	56.38	1.774e-2	8.009e-2
Human T-cell leukemia virus 1 infection	KEGG	1	B2M	224	1	53.62	1.865e-2	8.232e-2