

GeDiPNet Cluster 78 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-09 03:23:08. · Rows: 15 · Generated: 2026-10-09 15:00:27

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
regulation of T-helper cell differentiation	GO:0045622	4	GATA3, HLA-DRB1, IRF4, HLA-DRA	5	261	57.28	1.839e-7	2.017e-5
immune response	GO:0006955	25	IL7R, LTBR, IL5, TLR2, TLR4, TNFSF8, HLA-DQA1, HLA-DRB1, CCL26, JAK2, SMAD3, HLA-B	543	261	3.30	1.910e-7	2.080e-5
positive regulation of interleukin-17 production	GO:0032740	6	IL23R, MYD88, JAK2, TGFB1, IL2, IL21	27	261	15.91	1.622e-6	1.231e-4
positive regulation of B cell proliferation	GO:0030890	7	IL5, TLR4, IL2, IL21, NFATC2, VAV3, PTPRC	47	261	10.66	3.735e-6	2.391e-4
positive regulation of chemokine production	GO:0032722	7	MYD88, TLR2, TLR4, TSLP, IL1RL1, IL33, IL4R	49	261	10.23	4.981e-6	3.018e-4
positive regulation of immunoglobulin production	GO:0002639	6	IL5, IL33, IL4R, IL2, IL21, PTPRC	33	261	13.02	5.657e-6	3.339e-4
cytokine-mediated signaling pathway	GO:0019221	11	IL17REL, IL23R, IL7R, IL5, MYD88, JAK2, STAT6, TSLP, IL4R, CEBPA, RBX1	145	261	5.43	6.213e-6	3.601e-4
positive regulation of inflammatory response	GO:0050729	10	NFKB1, TLR2, TLR4, TGFB1, TSLP, IL1RL1, IL33, CEBPA, IL2, IL21	122	261	5.87	8.312e-6	4.570e-4
positive regulation of macrophage activation	GO:0043032	5	TLR4, IL1RL1, IL33, IL4R, CEBPA	21	261	17.05	8.668e-6	4.722e-4
T cell differentiation	GO:0030217	7	IL7R, GATA3, RAG2, TGFB1, IKZF3, IL2, PTPRC	54	261	9.28	9.676e-6	5.133e-4
positive regulation of interleukin-5 production	GO:0032754	4	GATA3, TSLP, IL1RL1, IL33	12	261	23.87	1.686e-5	7.895e-4
positive regulation of tumor necrosis factor production	GO:0032760	9	MYD88, TLR2, TLR4, JAK2, TGFB1, IL33, FCER1G, TLR1, PTPRC	113	261	5.70	2.970e-5	1.218e-3
antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	GO:0002504	4	HLA-DQA1, HLA-DRB1, HLA-DQB1, HLA-DRA	15	261	19.09	4.497e-5	1.669e-3
positive regulation of interleukin-13 production	GO:0032736	4	GATA3, TSLP, IL33, IRF4	15	261	19.09	4.497e-5	1.669e-3
antigen processing and presentation	GO:0019882	6	HLA-DQA1, HLA-DRB1, HLA-B, RAB5B, HLA-DQB1, HLA-DRA	48	261	8.95	5.260e-5	1.880e-3