

GeDiPNet Cluster 139 -- 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: 2026-10-08 03:23:04. · Rows: 15 · Generated: 2026-10-08 16:41:06

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	162	92.28	2.703e-8	4.006e-6
immune response	GO:0006955	19	IL7R, LTBR, HLA-B, HLA-DQA1, HLA-DRB1, IL18R1, IL18RAP, IL1RL1, IL4R, SMAD3, CCR7, CD207	543	162	4.04	2.577e-7	2.717e-5
positive regulation of interleukin-5 production	GO:0032754	4	GATA3, IL1RL1, IL33, TSLP	12	162	38.45	2.552e-6	1.789e-4
antigen processing and presentation	GO:0019882	6	HLA-B, HLA-DQA1, HLA-DRB1, RAB5B, HLA-DQB1, HLA-DRA	48	162	14.42	3.513e-6	2.309e-4
antigen processing and presentation of exogenous peptide antigen via MHC class II	GO:0019886	5	HLA-DQA1, HLA-DRB1, FCER1G, HLA-DQB1, HLA-DRA	31	162	18.61	6.517e-6	3.780e-4
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	162	30.76	6.896e-6	3.956e-4
positive regulation of interleukin-13 production	GO:0032736	4	GATA3, IL33, IRF4, TSLP	15	162	30.76	6.896e-6	3.956e-4
positive regulation of immunoglobulin production	GO:0002639	5	IL33, IL4R, IL2, IL21, PTPRC	33	162	17.48	8.977e-6	4.903e-4
peptide antigen assembly with MHC class II protein complex	GO:0002503	4	HLA-DQA1, HLA-DRB1, HLA-DQB1, HLA-DRA	16	162	28.84	9.132e-6	4.961e-4
negative regulation of DNA-templated transcription	GO:0045892	18	IKZF1, NFKB1, ZBTB7A, ZNF417, FOXP1, GATA3, IRF1, FOXO1, CEBPA, FERD3L, GLI3, PRDM16	631	162	3.29	9.564e-6	5.136e-4
positive regulation of T cell mediated cytotoxicity	GO:0001916	5	IL23R, HLA-B, HLA-DRB1, HLA-DRA, PTPRC	34	162	16.96	1.045e-5	5.484e-4
macrophage differentiation	GO:0030225	5	GATA3, HLA-DRB1, IL1RL1, IL33, CEBPA	37	162	15.59	1.603e-5	7.662e-4
positive regulation of immune response	GO:0050778	5	HLA-DQA1, HLA-DRB1, FCER1G, HLA-DQB1, HLA-DRA	40	162	14.42	2.370e-5	1.035e-3
positive regulation of macrophage activation	GO:0043032	4	IL1RL1, IL33, IL4R, CEBPA	21	162	21.97	2.903e-5	1.206e-3
positive regulation of DNA-templated transcription	GO:0045893	19	ARNT, NFKB1, GATA3, HLA-DRB1, IRF1, IRF4, MYRF, NCOA1, TBX1, FOXO1, SMAD3, CEBPA	778	162	2.82	4.593e-5	1.723e-3