

GeDiPNet Cluster 104 -- 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 05:52:49

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
immune response	GO:0006955	25	FCGR3B, HLA-DRB5, STAT4, HLA-DPA1, HLA-DPB1, TLR10, C9, HLA-B, HLA-DRA, IL1A, IL1B, TNF	543	97	8.87	3.193e-17	3.167e-14
immune system process	GO:0002376	28	HLA-DRB5, IRF5, HLA-DPA1, HLA-DPB1, TLR10, C2, TRIM31, C9, HLA-B, HLA-DRA, MBL2, HLA-DRB1	943	97	5.72	2.133e-14	1.275e-11
antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	GO:0002504	7	HLA-DRB5, HLA-DPA1, HLA-DPB1, HLA-DRA, HLA-DRB1, HLA-DQA1, HLA-DQB1	15	97	89.90	5.067e-13	2.420e-10
peptide antigen assembly with MHC class II protein complex	GO:0002503	7	HLA-DRB5, HLA-DPA1, HLA-DPB1, HLA-DRA, HLA-DRB1, HLA-DQA1, HLA-DQB1	16	97	84.28	8.971e-13	4.083e-10
antigen processing and presentation	GO:0019882	9	HLA-DRB5, HLA-DPA1, HLA-DPB1, HLA-B, HLA-DRA, HLA-DRB1, HLA-DQA1, HLA-A, HLA-DQB1	48	97	36.12	2.657e-12	1.102e-9
antigen processing and presentation of exogenous peptide antigen via MHC class II	GO:0019886	8	FCGR2B, HLA-DRB5, HLA-DPA1, HLA-DPB1, HLA-DRA, HLA-DRB1, HLA-DQA1, HLA-DQB1	31	97	49.72	2.808e-12	1.156e-9
positive regulation of immune response	GO:0050778	8	HLA-DRB5, HLA-DPA1, HLA-DPB1, C9, HLA-DRA, HLA-DRB1, HLA-DQA1, HLA-DQB1	40	97	38.53	2.635e-11	8.670e-9
innate immune response	GO:0045087	18	IRF5, TLR10, C2, TRIM10, TRIM31, TRIM40, C9, HLA-B, MBL2, TNF, IRAK1, TLR2	605	97	5.73	1.845e-9	3.764e-7
inflammatory response	GO:0006954	16	FCGR2B, IRF5, TLR10, TRIM31, IL1A, IL1B, TNF, IL13, TLR2, IL17A, IL17F, LY86	467	97	6.60	2.218e-9	4.419e-7
positive regulation of T cell activation	GO:0050870	7	HLA-DRB5, HLA-DPA1, HLA-DPB1, HLA-DRA, HLA-DRB1, HLA-DQA1, HLA-DQB1	45	97	29.97	3.148e-9	6.024e-7
adaptive immune response	GO:0002250	15	HLA-DRB5, HLA-DPA1, HLA-DPB1, HLA-B, HLA-DRA, HLA-DRB1, HLA-DQA1, TAP1, TAP2, IL17A, IL17F, HLA-A	507	97	5.70	5.183e-8	6.995e-6
Fc-gamma receptor signaling pathway	GO:0038094	4	FCGR2B, FCGR3B, FCGR2A, CD247	13	97	59.28	4.705e-7	4.493e-5
positive regulation of T cell mediated cytotoxicity	GO:0001916	5	HLA-B, HLA-DRA, HLA-DRB1, TAP2, HLA-A	34	97	28.33	8.387e-7	7.262e-5
positive regulation of interleukin-6 production	GO:0032755	7	IL1A, IL1B, TNF, TLR2, IL17A, IL17F, TLR1	103	97	13.09	1.076e-6	8.889e-5
regulation of T-helper cell differentiation	GO:0045622	3	HLA-DRA, HLA-DRB1, IRF4	5	97	115.59	1.346e-6	1.063e-4