

GeDiPNet Cluster 153 -- 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 17:40:20

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	32	CRHR1, IL1B, IL1RN, IL2, TNF, CTLA4, ICAM1, IL10, IL3, IFNG, IL17A, TNFSF8	543	89	12.37	8.997e-27	3.378e-23
inflammatory response	GO:0006954	19	CRH, IFNA2, IL1B, IL1RN, TAC1, TNF, TNFRSF1A, IL23R, IL17A, IL10RB, IL1A, CCR5	467	89	8.54	5.674e-13	2.659e-10
positive regulation of transcription by RNA polymerase II	GO:0045944	25	IL1B, IL2, TNF, TNFRSF1A, IL10, IFNG, IL17A, TNFSF8, HGF, IL1A, NOD2, GFI1B	1208	89	4.35	2.189e-10	5.691e-8
humoral immune response	GO:0006959	8	IFNA2, TNF, IFNG, NOTCH1, CD28, GATA3, GPR183, IFNA1	58	89	28.96	3.031e-10	7.565e-8
cell surface receptor signaling pathway	GO:0007166	14	CRHR1, CRHR2, IFNA2, TNFRSF1A, TSHR, IFNG, FCGR3A, CCR5, FCGR3B, MS4A10, CCR4, CD28	373	89	7.88	2.460e-9	4.841e-7
cell surface receptor signaling pathway via STAT	GO:0097696	6	IFNA2, IL2, IL23R, IL3, IFNG, STAT3	28	89	44.99	3.406e-9	6.460e-7
positive regulation of cell population proliferation	GO:0008284	16	CRH, IL1B, IL2, NPY, IL23R, IL3, TSHR, IFNG, NOD2, PRTN3, NOTCH1, STAT3	532	89	6.31	3.859e-9	7.225e-7
positive regulation of T cell proliferation	GO:0042102	7	IL1B, IL2, IL23R, HLA-DPB1, HLA-DPA1, CD28, IL4	67	89	21.94	3.016e-8	4.401e-6
positive regulation of ERK1 and ERK2 cascade	GO:0070374	10	GCG, IL1B, NPY, TNF, ICAM1, PTPN22, NOD2, NOTCH1, CCR7, GPR183	201	89	10.45	4.028e-8	5.627e-6
negative regulation of inflammatory response	GO:0050728	9	IL2, TNFRSF1A, IL10, HGF, PTPN2, STAT3, FOXP3, GATA3, IL4	152	89	12.43	4.487e-8	6.189e-6
positive regulation of interleukin-10 production	GO:0032733	6	HGF, NOD2, STAT3, CD28, IL4, IRF4	43	89	29.30	5.206e-8	7.008e-6
response to lipopolysaccharide	GO:0032496	9	IL1B, TAC1, TNF, IL10, IL23R, PTPN22, NOTCH1, CCR7, FOXP3	161	89	11.74	7.373e-8	9.418e-6
positive regulation of type II interferon production	GO:0032729	7	IL1B, IL2, TNF, IL23R, PTPN22, HLA-DPB1, HLA-DPA1	77	89	19.09	8.026e-8	1.013e-5
signal transduction	GO:0007165	29	CCK, CRH, CRHR1, CRHR2, GIP, HTR4, IL1B, IL1RN, TNFRSF10A, TNFRSF1A, TSHR, TNFRSF8	2125	89	2.87	8.136e-8	1.025e-5
T cell receptor signaling pathway	GO:0050852	8	CTLA4, PTPN22, HLA-DPB1, CD28, FOXP3, FYN, GATA3, PLCG1	121	89	13.88	1.115e-7	1.339e-5