

GeDiPNet Cluster 10 -- 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: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 00:29:09

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
T cell activation	GO:0042110	22	CARD11, ICOSLG, IRF4, CD27, ZAP70, CD3G, CD70, DOCK2, ITK, LCK, PTPRC, CD8A	76	178	30.39	4.226e-27	1.719e-23
immune system process	GO:0002376	53	CARD11, CRACR2A, ICOSLG, IRF4, IL2RG, ZAP70, CD3G, CTPS1, ITK, MALT1, ORAI1, OAS1	943	178	5.90	8.315e-27	3.127e-23
T cell receptor signaling pathway	GO:0050852	22	ICOSLG, ZAP70, CD3G, FCHO1, IKBKB, ITK, LCK, MALT1, PTPRC, RNF31, CD8A, CD28	121	178	19.09	3.124e-22	6.829e-19
T cell proliferation	GO:0042098	15	CD70, CTPS1, DOCK2, MALT1, MSN, TNFRSF4, SASH3, PTPRC, PSMB10, CD28, CD3E, IL12B	51	178	30.88	6.270e-19	8.568e-16
defense response to virus	GO:0051607	24	RELA, OAS1, POLR3F, CARD9, PTPRC, MAP3K14, IRF1, TRAF3, IFNGR1, IFNGR2, IL12B, STAT1	247	178	10.20	1.417e-17	1.604e-14
positive regulation of T cell proliferation	GO:0042102	15	IL6ST, CD40LG, TFRC, CD70, SASH3, PTPRC, CD28, CD3E, IL12B, TYK2, IL2RA, NCKAP1L	67	178	23.50	5.961e-17	5.992e-14
cell surface receptor signaling pathway	GO:0007166	27	CD27, CD40LG, TFRC, CD3G, LCK, IL7R, PTPRC, RNF31, CD8A, CD28, TRAF3, PIK3CD	373	178	7.60	2.140e-16	1.895e-13
response to virus	GO:0009615	18	IKBKB, OAS1, IFNAR1, TNF, IFNGR1, IFNGR2, IKBKG, ISG15, IRF7, IFNAR2, IL17RA, MYD88	128	178	14.76	2.667e-16	2.333e-13
innate immune response	GO:0045087	33	REL, IKBKB, MALT1, RELA, RELB, OAS1, POLR3F, CARD9, OTULIN, IRF1, TNF, TRAF3	605	178	5.73	3.221e-16	2.782e-13
positive regulation of canonical NF-kappaB signal transduction	GO:0043123	22	CARD11, CD40LG, TFRC, REL, IKBKB, MALT1, RELA, CARD9, RNF31, TNF, IKBKG, BCL10	232	178	9.96	5.777e-16	4.744e-13
B cell differentiation	GO:0030183	15	CARD11, CD40LG, IL2RG, RAG1, PTPRC, RAG2, NHEJ1, FLT3LG, PIK3CD, PIK3R1, SYK, IKZF3	80	178	19.68	1.028e-15	7.906e-13
T cell differentiation	GO:0030217	13	ZAP70, LCK, IL7R, PTPRC, RAG2, NHEJ1, RHOH, PIK3CD, PIK3R1, CD4, IKZF3, TBX21	54	178	25.27	2.693e-15	1.958e-12
positive regulation of tumor necrosis factor production	GO:0032760	16	OAS1, SASH3, CARD9, PTPRC, FCGR3A, IFNGR1, IL12B, CYBB, PIK3R1, RIPK1, MYD88, IFNG	113	178	14.86	1.154e-14	7.434e-12
cytokine-mediated signaling pathway	GO:0019221	17	IL6ST, IL6R, IL2RG, IL21R, RELA, IL7R, IFNAR1, IL7, IFNGR1, IFNGR2, IL12RB1, TYK2	145	178	12.31	4.118e-14	2.421e-11
immune response	GO:0006955	28	CD40LG, IL2RG, ZAP70, CD70, TNFRSF4, RAG1, IL7R, MAP3K14, CD8A, CD28, TNF, IL7	543	178	5.41	2.915e-13	1.491e-10