

GeDiPNet Cluster 425 -- 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 15:02:08

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
granulocyte-macrophage colony-stimulating factor signaling pathway	GO:0038157	3	CSF2, CSF2RA, CSF2RB	4	10	1401.53	4.413e-10	1.073e-7
positive regulation of leukocyte proliferation	GO:0070665	3	CSF2, CSF2RA, CSF2RB	6	10	934.35	2.205e-9	4.498e-7
respiratory gaseous exchange by respiratory system	GO:0007585	3	CSF2RB, SFTPB, SFTPC	31	10	180.84	4.921e-7	4.620e-5
cell surface receptor signaling pathway via JAK-STAT	GO:0007259	3	CSF2, CSF2RA, CSF2RB	67	10	83.67	5.192e-6	3.101e-4
antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	GO:0002504	2	HLA-DRB5, HLA-DRB1	15	10	249.16	2.696e-5	1.127e-3
peptide antigen assembly with MHC class II protein complex	GO:0002503	2	HLA-DRB5, HLA-DRB1	16	10	233.59	3.081e-5	1.246e-3
surfactant homeostasis	GO:0043129	2	ABCA3, OAS1	18	10	207.63	3.925e-5	1.499e-3
antigen processing and presentation of exogenous peptide antigen via MHC class II	GO:0019886	2	HLA-DRB5, HLA-DRB1	31	10	120.56	1.189e-4	3.446e-3
macrophage differentiation	GO:0030225	2	CSF2, HLA-DRB1	37	10	101.01	1.700e-4	4.496e-3
positive regulation of immune response	GO:0050778	2	HLA-DRB5, HLA-DRB1	40	10	93.44	1.989e-4	5.028e-3
positive regulation of T cell activation	GO:0050870	2	HLA-DRB5, HLA-DRB1	45	10	83.05	2.521e-4	5.958e-3
antigen processing and presentation	GO:0019882	2	HLA-DRB5, HLA-DRB1	48	10	77.86	2.869e-4	6.499e-3
positive regulation of protein homooligomerization	GO:0032464	1	ABCA3	1	10	1868.70	5.351e-4	9.981e-3
antigen processing and presentation of endogenous peptide antigen via MHC class II	GO:0002491	1	HLA-DRB1	2	10	934.35	1.070e-3	1.569e-2
regulation of interleukin-10 production	GO:0032653	1	HLA-DRB1	2	10	934.35	1.070e-3	1.569e-2