

GeDiPNet Cluster 65 -- 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 15:07:14

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
carbon dioxide transport	GO:0015670	5	HBA1, HBA2, HBB, HBD, HBG1	13	44	163.35	7.262e-11	2.123e-8
oxygen transport	GO:0015671	5	HBA1, HBA2, HBB, HBD, HBG1	17	44	124.91	3.468e-10	8.495e-8
erythrocyte development	GO:0048821	5	HBA1, HBA2, HBB, HBD, HBG1	32	44	66.36	1.099e-8	1.816e-6
nitric oxide transport	GO:0030185	3	HBA1, HBA2, HBB	5	44	254.82	1.214e-7	1.439e-5
hydrogen peroxide catabolic process	GO:0042744	3	HBA1, HBA2, HBB	21	44	60.67	1.573e-5	7.550e-4
nitrobenzene metabolic process	GO:0018916	2	GSTM1, GSTM3	4	44	212.35	3.241e-5	1.313e-3
xenobiotic catabolic process	GO:0042178	3	GSTM1, GSTM3, CYP1A2	28	44	45.50	3.829e-5	1.500e-3
cellular detoxification of nitrogen compound	GO:0070458	2	GSTM1, GSTM3	5	44	169.88	5.394e-5	1.938e-3
regulation of peptidyl-tyrosine phosphorylation	GO:0050730	2	EGFR, ITGB2	6	44	141.57	8.079e-5	2.644e-3
inflammatory response	GO:0006954	7	HBA1, HBA2, CX3CR1, HBB, ITGB2, PTGER4, IFNA2	467	44	6.37	1.002e-4	3.097e-3
response to hydrogen peroxide	GO:0042542	3	HBA1, HBA2, HBB	39	44	32.67	1.049e-4	3.205e-3
positive regulation of nitric oxide biosynthetic process	GO:0045429	3	HBB, ITGB2, JAK2	42	44	30.34	1.311e-4	3.784e-3
positive regulation of phosphatidylinositol 3-kinase/protein kinase B signal transduction	GO:0051897	5	CD28, CX3CR1, EGFR, OSM, JAK2	217	44	9.79	1.515e-4	4.207e-3
regulation of nitric oxide biosynthetic process	GO:0045428	2	CX3CR1, JAK2	10	44	84.94	2.409e-4	5.860e-3
immune response	GO:0006955	7	CD28, CX3CR1, OSM, PTGER4, SERPINB9, DPP8, JAK2	543	44	5.48	2.536e-4	6.073e-3