

GeDiPNet Cluster 12 -- 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 13:19:36

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
inflammatory response	GO:0006954	17	HK1, HBB, HP, IFNA2, IKBKG, CYBA, CYBB, NCF1, IL6, PRKCZ, CD40, CD40LG	467	124	5.49	1.280e-8	2.118e-6
respiratory burst	GO:0045730	5	CYBA, CYBB, NCF1, NCF2, NCF4	15	124	50.23	3.378e-8	4.855e-6
hydrogen peroxide biosynthetic process	GO:0050665	4	CYBA, CYBB, NCF1, CYP1A1	11	124	54.80	5.879e-7	5.367e-5
superoxide anion generation	GO:0042554	5	CYBA, CYBB, NCF1, NCF2, NCF4	26	124	28.98	6.979e-7	6.205e-5
glycolytic process	GO:0006096	6	PKLR, GPI, HK1, PGK1, TPI1, BPGM	49	124	18.45	8.370e-7	7.178e-5
erythrocyte development	GO:0048821	5	GATA1, HBB, RHAG, SLC4A1, BPGM	32	124	23.55	2.070e-6	1.476e-4
response to nutrient	GO:0007584	6	PKLR, GCLC, EPO, ABCG5, ABCG8, CYBB	63	124	14.35	3.770e-6	2.398e-4
cell surface receptor signaling pathway via JAK-STAT	GO:0007259	6	IFNG, IL6, CD40, USP1, CCL2, IL4	67	124	13.50	5.419e-6	3.202e-4
ammonium homeostasis	GO:0097272	3	RHAG, RHCE, RHD	6	124	75.35	5.621e-6	3.294e-4
response to xenobiotic stimulus	GO:0009410	10	GCLC, ABCG5, ABCG8, CYBA, CYBB, IL10, GPX1, CYP1A1, TGFB1, FZD3	248	124	6.08	6.137e-6	3.533e-4
positive regulation of interleukin-10 production	GO:0032733	5	CD46, IL6, PRKCZ, CD40LG, IL4	43	124	17.52	9.332e-6	4.952e-4
negative regulation of apoptotic process	GO:0043066	14	GPI, GCLC, GATA1, EPO, RNF157, IL10, IL6, PRKCZ, SHH, UNG, CD40LG, MPO	524	124	4.03	1.008e-5	5.249e-4
superoxide metabolic process	GO:0006801	4	CYBA, CYBB, NCF1, NCF2	22	124	27.40	1.232e-5	6.136e-4
canonical glycolysis	GO:0061621	4	GPI, HK1, PGK1, TPI1	22	124	27.40	1.232e-5	6.136e-4
positive regulation of T-helper 2 cell cytokine production	GO:2000553	3	IL6, PRKCZ, IL4	9	124	50.23	2.327e-5	1.008e-3