

GeDiPNet Cluster 95 -- 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 03:55:44

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
intracellular iron ion homeostasis	GO:0006879	10	TF, SLC11A2, SOD1, TFRC, TMPRSS6, CP, FTH1, FTL, HFE, HMOX1	71	34	77.41	3.949e-17	3.840e-14
iron ion transport	GO:0006826	7	TF, SLC11A2, STEAP3, TFRC, FTH1, FTL, HFE	31	34	124.11	8.701e-14	4.754e-11
multicellular organismal-level iron ion homeostasis	GO:0060586	6	TF, SLC11A2, TFRC, TMPRSS6, HFE, HMOX1	28	34	117.78	8.335e-12	3.102e-9
osteoclast differentiation	GO:0030316	4	TF, TNF, TFRC, BMP2	49	34	44.87	1.826e-6	1.365e-4
response to iron ion	GO:0010039	3	SLC11A2, TFRC, HFE	18	34	91.60	4.407e-6	2.766e-4
response to hypoxia	GO:0001666	5	SLC11A2, TNF, TFRC, BMP2, ITGA2	176	34	15.61	1.561e-5	7.514e-4
collagen-activated signaling pathway	GO:0038065	2	JAK2, ITGA2	6	34	183.21	4.798e-5	1.772e-3
response to hydrogen peroxide	GO:0042542	3	SOD1, GPX1, HMOX1	39	34	42.28	4.809e-5	1.776e-3
positive regulation of SMAD protein signal transduction	GO:0060391	3	JAK2, BMP2, HFE	42	34	39.26	6.018e-5	2.103e-3
cellular response to iron ion	GO:0071281	2	TF, HFE	7	34	157.03	6.709e-5	2.290e-3
negative regulation of vascular wound healing	GO:0061044	2	TNF, TAF45	8	34	137.40	8.936e-5	2.849e-3
positive regulation of smooth muscle cell proliferation	GO:0048661	3	TNF, HMOX1, ITGA2	52	34	31.71	1.144e-4	3.413e-3
response to hydroperoxide	GO:0033194	2	GPX1, JAK2	9	34	122.14	1.148e-4	3.419e-3
response to oxidative stress	GO:0006979	4	SOD1, GPX1, JAK2, HMOX1	146	34	15.06	1.382e-4	3.926e-3
transferrin transport	GO:0033572	2	TFRC, HFE	11	34	99.93	1.749e-4	4.689e-3