

GeDiPNet Cluster 245 -- 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 01:48:06

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	6	TF, SLC11A2, SOD1, TFRC, TMPRSS6, HFE	71	12	131.60	2.200e-12	9.349e-10
multicellular organismal-level iron ion homeostasis	GO:0060586	5	TF, SLC11A2, TFRC, TMPRSS6, HFE	28	12	278.08	4.072e-12	1.624e-9
iron ion transport	GO:0006826	5	TF, SLC11A2, STEAP3, TFRC, HFE	31	12	251.17	7.033e-12	2.671e-9
response to iron ion	GO:0010039	3	SLC11A2, TFRC, HFE	18	12	259.54	1.642e-7	1.836e-5
response to hypoxia	GO:0001666	4	SLC11A2, TNF, TFRC, ITGA2	176	12	35.39	3.549e-6	2.284e-4
osteoclast differentiation	GO:0030316	3	TF, TNF, TFRC	49	12	95.34	3.666e-6	2.343e-4
cellular response to iron ion	GO:0071281	2	TF, HFE	7	12	444.93	7.924e-6	4.343e-4
response to xenobiotic stimulus	GO:0009410	4	TNF, SOD1, GPX1, ITGA2	248	12	25.12	1.378e-5	6.709e-4
transferrin transport	GO:0033572	2	TFRC, HFE	11	12	283.14	2.072e-5	9.234e-4
response to copper ion	GO:0046688	2	SOD1, TFRC	12	12	259.54	2.486e-5	1.058e-3
detection of mechanical stimulus involved in sensory perception of pain	GO:0050966	2	TNF, ITGA2	14	12	222.46	3.425e-5	1.353e-3
cellular response to oxidative stress	GO:0034599	3	SLC11A2, SOD1, GPX1	111	12	42.09	4.316e-5	1.614e-3
response to reactive oxygen species	GO:0000302	2	SOD1, GPX1	20	12	155.73	7.136e-5	2.350e-3
positive regulation of receptor-mediated endocytosis	GO:0048260	2	TF, HFE	21	12	148.31	7.885e-5	2.534e-3
heart contraction	GO:0060047	2	SOD1, GPX1	23	12	135.41	9.493e-5	2.908e-3