

GeDiPNet Cluster 211 -- 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: 2026-10-09 03:23:08. · Rows: 15 · Generated: 2026-10-09 00:35:15

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
multicellular organismal-level iron ion homeostasis	GO:0060586	11	HAMP, HFE, TFR2, TFRC, HJV, BMP6, SLC11A2, SLC40A1, CYBRD1, HEPH, TF	28	34	215.92	2.486e-24	7.558e-21
intracellular iron ion homeostasis	GO:0006879	13	HAMP, HFE, TFR2, TFRC, HJV, ALAS2, BMP6, CP, SLC11A2, SLC40A1, FTH1, CYBRD1	71	34	100.63	9.364e-24	2.663e-20
iron ion transport	GO:0006826	9	HFE, LCN2, TFR2, TFRC, SLC11A2, SLC40A1, FTH1, HEPH, TF	31	34	159.57	1.347e-18	1.691e-15
response to iron ion	GO:0010039	7	HAMP, HFE, TFR2, TFRC, BMP6, SLC11A2, CYBRD1	18	34	213.74	1.071e-15	8.242e-13
cellular response to iron ion	GO:0071281	4	HFE, TFR2, BMP6, TF	7	34	314.07	3.183e-10	8.175e-8
erythrocyte development	GO:0048821	5	HBB, GATA1, HBA2, ALAS2, SLC11A2	32	34	85.88	2.851e-9	5.597e-7
'de novo' UMP biosynthetic process	GO:0044205	3	CAD, DHODH, UMPS	3	34	549.62	5.503e-9	9.976e-7
iron ion export across plasma membrane	GO:1903988	3	HAMP, SLC40A1, TF	3	34	549.62	5.503e-9	9.976e-7
UDP biosynthetic process	GO:0006225	3	CAD, DHODH, UMPS	5	34	329.77	5.489e-8	7.238e-6
'de novo' pyrimidine nucleobase biosynthetic process	GO:0006207	3	CAD, DHODH, UMPS	6	34	274.81	1.096e-7	1.296e-5
cellular oxidant detoxification	GO:0098869	5	HBB, GSTT1, HBA2, CP, HP	66	34	41.64	1.211e-7	1.408e-5
pyrimidine nucleotide biosynthetic process	GO:0006221	3	CAD, DHODH, UMPS	9	34	183.21	4.588e-7	4.335e-5
acute-phase response	GO:0006953	4	EPO, LCN2, TFRC, HP	37	34	59.42	5.780e-7	5.267e-5
response to hypoxia	GO:0001666	6	EPO, TFRC, TNF, ALAS2, BMP2, SLC11A2	176	34	18.74	6.925e-7	6.123e-5
response to hydrogen peroxide	GO:0042542	4	HBB, COL1A1, HBA2, HP	39	34	56.37	7.179e-7	6.305e-5