

GeDiPNet Cluster 181 -- 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 05:41:50

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
intrinsic apoptotic signaling pathway in response to DNA damage	GO:0008630	5	SOD2, BAD, BCL2L2, CASP9, HTRA2	54	40	43.26	1.016e-7	1.235e-5
bile acid and bile salt transport	GO:0015721	4	SLC10A2, SLC51B, ABCC4, SLC51A	26	40	71.87	2.600e-7	2.734e-5
negative regulation of apoptotic process	GO:0043066	9	EPO, SOD2, VEGFA, AKR1B1, HIF1A, ADORA1, BAD, BCL2L2, SOD1	524	40	8.02	1.261e-6	1.010e-4
response to hypoxia	GO:0001666	6	EPO, SOD2, VEGFA, HIF1A, ADORA1, CASP9	176	40	15.93	1.886e-6	1.399e-4
intrinsic apoptotic signaling pathway	GO:0097193	4	BAD, CASP9, CYCS, HTRA2	45	40	41.53	2.517e-6	1.768e-4
apoptotic process	GO:0006915	10	EPO, IL17A, VEGFA, HIF1A, BAD, BCL2L2, CASP9, CYCS, HTRA2, SOD1	747	40	6.25	2.798e-6	1.927e-4
vasodilation	GO:0042311	4	SOD2, VEGFA, ACE, ADORA1	50	40	37.37	3.860e-6	2.487e-4
response to reactive oxygen species	GO:0000302	3	SOD2, HIF1A, SOD1	20	40	70.08	1.010e-5	5.340e-4
release of cytochrome c from mitochondria	GO:0001836	3	SOD2, BAD, BCL2L2	23	40	60.94	1.562e-5	7.514e-4
response to superoxide	GO:0000303	2	SOD2, SOD1	5	40	186.87	4.449e-5	1.682e-3
inflammatory response	GO:0006954	7	IL17A, HDAC4, HP, IL1RN, ADORA1, C3, NAMPT	467	40	7.00	5.312e-5	1.921e-3
hemoglobin biosynthetic process	GO:0042541	2	EPO, HIF1A	6	40	155.73	6.665e-5	2.281e-3
bile acid secretion	GO:0032782	2	SLC51B, SLC51A	6	40	155.73	6.665e-5	2.281e-3
acute-phase response	GO:0006953	3	EPO, HP, IL1RN	37	40	37.88	6.712e-5	2.290e-3
response to axon injury	GO:0048678	3	EPO, SOD2, SOD1	37	40	37.88	6.712e-5	2.290e-3