

GeDiPNet Cluster 216 -- 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 20:41:34

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
response to L-ascorbic acid	GO:0033591	3	CAT, SOD2, GSTP1	4	26	539.05	9.555e-9	1.621e-6
response to reactive oxygen species	GO:0000302	4	CAT, SOD1, SOD2, GSTP1	20	26	143.75	1.405e-8	2.279e-6
response to hydrogen peroxide	GO:0042542	4	CAT, MMP2, SOD1, SOD2	39	26	73.72	2.342e-7	2.464e-5
glutathione metabolic process	GO:0006749	4	SOD1, SOD2, GSR, GSTP1	49	26	58.67	5.977e-7	5.421e-5
response to hyperoxia	GO:0055093	3	CAT, MMP2, SOD2	14	26	154.01	8.615e-7	7.320e-5
superoxide metabolic process	GO:0006801	3	SOD1, SOD2, NOS2	22	26	98.01	3.618e-6	2.329e-4
response to hypoxia	GO:0001666	5	CAT, MMP2, SMAD4, SOD2, NOS2	176	26	20.42	3.923e-6	2.487e-4
response to nutrient levels	GO:0031667	4	SOD1, SOD2, GH1, GSTP1	79	26	36.39	4.120e-6	2.589e-4
response to estradiol	GO:0032355	4	CAT, GH1, PTCH1, GSTP1	84	26	34.23	5.267e-6	3.153e-4
response to superoxide	GO:0000303	2	SOD1, SOD2	5	26	287.49	1.857e-5	8.525e-4
response to xenobiotic stimulus	GO:0009410	5	CAT, MMP2, SOD1, SOD2, PTCH1	248	26	14.49	2.071e-5	9.286e-4
extracellular matrix disassembly	GO:0022617	3	LAMC1, MMP2, MMP9	47	26	45.88	3.723e-5	1.446e-3
ovarian follicle development	GO:0001541	3	MMP2, SMAD4, SOD1	47	26	45.88	3.723e-5	1.446e-3
embryo implantation	GO:0007566	3	MMP2, MMP9, SOD1	48	26	44.92	3.967e-5	1.518e-3
response to oxidative stress	GO:0006979	4	CAT, MMP2, SOD1, SOD2	146	26	19.69	4.676e-5	1.718e-3